

2015 | Total Surveillance Solutions



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Index

22

NETWORK VIDEO RECORDERS

DR-2204P	22
DR-2208P	23
DR-2216P	24
DR-3104P	25
DR-3108P	26
DR-3116PS	27
DR-4208P	28
DR-4216P	29
DR-6216P	30
DR-6216P-S	31
DR-6232P	32
DR-6232P-S	33
DR-6216PS	34
DR-6216PS-S	35
DR-6232PS	36
DR-6232PS-S	37

NETWORK CAMERAS

BOX

DC-B1101	42
DC-B1103	43
DC-B1203	44
DC-B1203X	45
DC-B1303	46
DC-B1803	47

DOME

DC-D1111	48
DC-D1122	49
DC-D1122R	50
DC-D1122W	51
DC-D1122WR	52
DC-D1123	53
DC-D1123R	54
DC-D1123W	55
DC-D1123WR	56
DC-D1123WHR	57
DC-D1212R	58
DC-D2212R	59
DC-D1223	60
DC-D1223R	61
DC-D1223W	62

DOME

DC-D1223WR	63
DC-D1223WHR	64
DC-D1223WX	65
DC-D1323R	66
DC-D1323WHR	67
DC-D2233	68
DC-D2233R	69
DC-D2233W	70
DC-D2233WR	71
DC-D2233WHR	72
DC-D2233WHX	73
DC-D1223F	74
DC-D1223FR	75
DC-F1111A	76
DC-F1211	77
DC-F1211A	78

FISHEYE

DC-Y1513	79
DC-Y1513W	80

SPEED DOME

DC-S1163WH	81
DC-S1263WH	82
DC-S1283WHX	83
DC-S1263F	84
DC-S1283FX	85
DC-S1283WRX	86

BULLET

DC-T1232WR	88
DC-T1233WHR	89
DC-T1234WR	90
DC-T1233WHX	91
DC-E1112WR	92
DC-E1212WR	93

ZOOM

DC-Z1163	94
DC-Z1263	95

98

HD-TVI SOLUTION

HD-TVI RECORDER

TR-1104	98
TR-2104	99
TR-3108	100
TR-3116	101
TR-4108	102
TR-4116	103

HD-TVI CAMERA

TC-B1202	104
TC-E1212WR	105
TC-T1222WR	106
TC-D1212R	107
TC-D1222R	108
TC-D1222WR	109

112

SURVEILLANCE DISPLAYS

SM-U841	112
VW-F551	113

116

NETWORK ACCESSORIES

DE-1104 / 1108	116
DD-1116	117
DH-2010P / DH-2018P	118
DH-2212PF / 2128PF	119
NK-1100	120
DA-ES1104	120
DA-PI1101	121
DA-PR1101	121
DA-EC2101R/T	122
DA-EC2104R	122
DA-MC1101	123
FTLF1318P3BTL	123
FTLF8519P3BNL	123

126

CAMERA ACCESSORIES

MOUNT ADAPTER

DA-MA2000	126
DA-MA2100	

WALL MOUNT

DA-WM2050	126
DA-WM2150	
DA-WM1400	
DA-WM1500	

CEILING MOUNT

DA-CM1300	126
DA-CM2050	

POLE MOUNT

DA-LM2000	126
DA-LM1100	

CORNER MOUNT

DA-RM2000	127
DA-RM1100	

FLUSH MOUNT

DA-FM1300	127
-----------	-----

ADAPTER PLATE

DA-BM1100	127
DA-AP2000	

JUNCTION BOX

DA-JB2000	127
DA-JB2100	
DA-JB2200	

BOX HOUSING

DA-BH1100	127
-----------	-----

SUN SHIELD

DA-DH1100	127
-----------	-----

128

CONFIGURATION TREE

132

SOFTWARE SOLUTIONS

IDIS SOLUTION SUITE	132
IDIS CENTER	134
IDIS WEB	136
IDIS MOBILE	137

140

SOLUTION GUIDE

OFFICE BUILDINGS	140
UNIVERSITIES	142
BANKS	144
MANUFACTURING PLANTS	146
HOSPITALS	148
AIRPORTS	150
SUPERMARKETS	152

154

APPLICATIONS

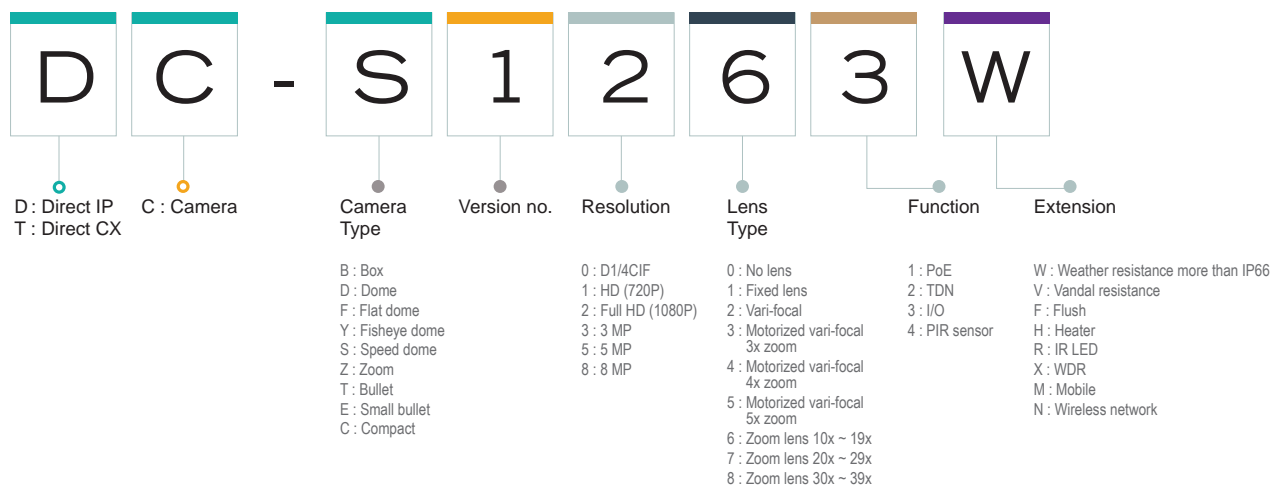
SMALL BUSINESS INSTALLATION	154
MEDIUM BUSINESS INSTALLATION	
LARGE BUSINESS INSTALLATION	
DR-6200 SERIES NVR CONNECTION DIAGRAM	155
CONTROL CENTER INATALLATION	

IDIS NAMING STRUCTURE

Network Video Recorders



Network Cameras



IDIS ICON GUIDE

Network Cameras



1280 x 720



1920 x 1080



2304 x 1296



2560 x 2048



3840 x 2160



Fixed Lens



V/F Lens



Motorized
V/F Lens



A/F Lens
18X



A/F Lens
30X



Fisheye
Lens



True D&N
with ICR



True WDR



BLC



HSBLC



Two-way
Audio



IR LED



PIR Sensor



Vandal Proof



Weather Proof



PoE



Digital Image
Stabilizer



The Vision to Excel

IDIS is a well-established global security solutions company which designs, develops, manufactures and markets security surveillance solutions. Since 1997, IDIS has grown to become the world's No.1 DVR manufacturer with an annual turnover of \$140 million with more than 1.7 million DVRs installed through our global top tier partners.

Our aim is to be the world's leading provider and partner of choice for surveillance solutions that protect people, property and assets through innovation and cost-effective technology coupled with unrivalled performance, quality and functionality.



Core Values :

Innovation



IDIS is a pioneer in the video surveillance market. Our history demonstrates our ability to turn innovation into practical applications. We are at the very frontier of industry technology. IDIS has developed over 100 different products to date and has 50 core patented technologies.

Credibility



IDIS is a recognized expert in the security industry and we have quickly established ourselves as world-class solution provider. We are proud to be at the forefront of the industry. Our growth ambitions remain on track underpinned by our significant resources and financial stability.

Sustainable Growth



At IDIS, we have built a reputation of trust with partners, suppliers and customers. Since the company was established, IDIS has built strong and proactive relationships. We value the contribution of our staff, suppliers, partners, direct customers and even competitors in shaping the future of the security industry.

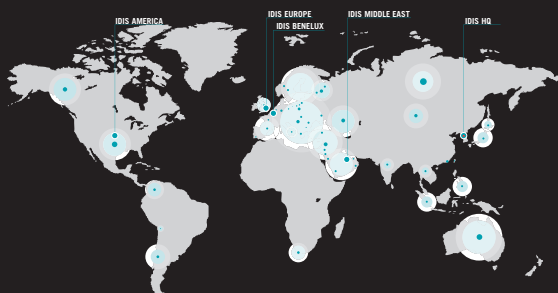


Why partner with IDIS ?

Pioneer in Digital Surveillance
since 1997

Over 24,000,000
Products Installed Worldwide

End-to-End
Surveillance Solution



10 Technical Reasons to Partner with IDIS



True Plug & Play

Zero configuration technology has been implemented into the entire IDIS DirectIP systems, which is powered by DirectIP protocol including auto-IP (link local address), multicast DNS(mDNS) and DNS service discovery(DNS-SD).



Unrivalled Performance

IDIS DirectIP NVRs are built with strong processing power that ranges from 84Mbps for compact 4ch up to 228Mbps for 16ch unit, making it possible to perform full-HD 2MP 30ips real-time streams for 16 cameras simultaneously with Pentaplex operation.



Quad-Stream Technology

IDIS DirectIP cameras are all equipped with 4 video streams, each of which can be configured and used independently with preferred resolution, quality and bit rate.



1080p 30ips Live, Record and Playback

IDIS DirectIP NVRs display full-HD 30ips both in full screen and 2x2 screen, with a guaranteed recording and playback speed of full-HD 30ips for up to 16 channels, enabling 4K display at real-time speed.



FEN Service

FEN (For Every Network) is an IDIS's proprietary free dynamic DNS for remote access via free Apple, Android, Windows PC or Mac client. No static IP is required.



ISM Technology

ISM (IDIS Storage Management) technology is applied to every DirectIP NVR, making the HDD disk failure rate lower than 0.5% pa. with solutions for anti-shock, anti-vibration and more ventilation.



Transmission Media

Zero configuration layer 2 managed switches, Ethernet over coax with PoE support, fiber media converter, SFP module, PoE Repeater, PoE injector, PoE extender (Up to 390m on CAT5 UTP).



Free VMS Client

1024x NVR registration, drag & drop live & playback, video wall with 256 cam control from one PC with up to 6 monitors, virtual matrix control via IDIS network keyboard, 3D mapping, reporting/event management.



Encoder & Decoder

IDIS encoders (4ch & 8ch) are true plug and play with zero configuration which support more than 60 PTZ protocols for analog PTZ camera control. Decoders convert Ethernet video streams to either VGA, DVI or HDMI monitor outputs.



Storage Expansion

IDIS provides 1U type 4-Bay eSATA device with RAID 0/1/5 support. Simple true plug and play connection with IDIS DirectIP NVRs, which can be configured as up to 88TB storage, using one NVR with 4 eSATA units as a single system.

10 Commercial Reasons to Partner with IDIS



One-stop-shop Solution

IDIS provides extensive range of 1~5 MP cameras, 4~32 channel HW NVRs, layer 2 PoE switches, VMS, mobile apps, PC client, encoder, decoder, network keyboard, transmission media and all accessories, fully compatible to one another.



Low TCO (Total Cost of Ownership)

IDIS DirectIP is free of from license cost (free VMS, free client & apps, No additional camera license, No software support agreement, no annual fee). Lower cost of training & maintenance and yet a longer lifetime.



Low Maintenance Cost

Designed with high reliability components, IDIS's own invented ISM Technology keeps HDD disk failure rate lower than 0.5% p.a., with an automatic self health-check & instant notification to users.



Low Power Consumption

With using IDIS IP Cameras, customers can save energy costs from 20% up to 32% on camera power. It becomes apparent when a bigger number of cameras are powered for years.



Easy Installation

Zero configuration with true plug and play makes the camera & NVR installation trouble-free and quick. IDIS's proprietary FEN technology makes an automatic connection between NVR & VMS/mobile apps.



Reduced End-user Training Time

Little to no network knowledge is required to run IDIS DirectIP solution. No need to involve client IT managers. Operation is just as simple as an analog CCTV system.



Technical Training Programs

IDIS provides certificated training courses and custom training programs at the worldwide offices.



Sales Support & Training

IDIS provides product demos, bullet points and comprehensive marketing materials continuously at local and global level to boost customers' sales performance.



Free Local Technical Support

IDIS provides free local technical support at selected regions. On-site support will also be available for issues which cannot be rectified over the phone/online.



Buy Directly from a Manufacturer

IDIS designs, develops, manufactures and supports all under one roof. Direct communication with the systems & software manufacturer is always a top advantage both commercially and technically.

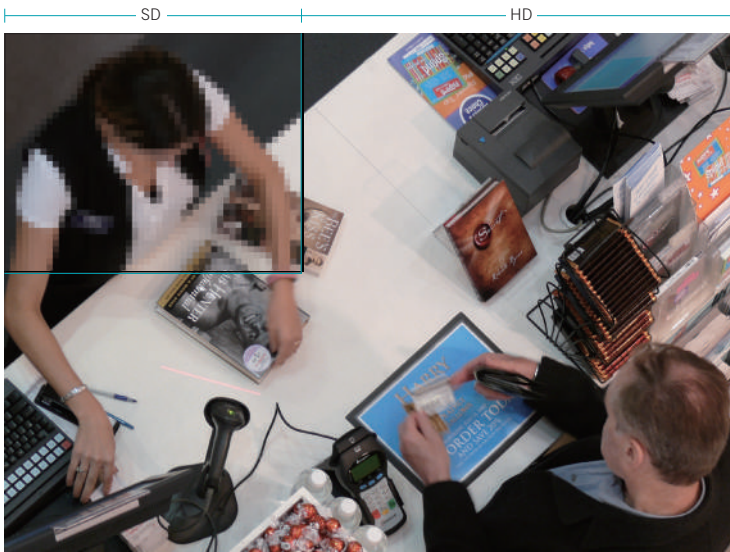


Free Region-based Technical Support

IDIS will provide free region-based telephone support. On-site support will also be available for issues which cannot be rectified over the phone.

Direct IP™

Increasing demand for HD surveillance



In the past there has been market reluctance to adapt to IP-based surveillance systems, often because they are perceived as being more complicated than conventional analogue solutions.

The analogue surveillance market has been developed to embrace digital video technology over a number of years primarily by using analogue cameras, supported by digital video recorders (DVRs). However, the demand for HD resolution continues to develop and is quickly becoming the norm for many security conscious businesses.

IP based security systems provide higher image quality than DVRs, as a network video recorder (NVR) does not need to compress incoming video sources (as this is supplied by the cameras). However, this function will not fulfill the end users' expectation alone.

Challenges of affordability, performance, integration and compatibility are inherent to the market place. Many traditional IP based security systems are very complicated to install especially when the systems are communicating with multiple sensors, audio devices and ATM/POS devices.

DirectIP™
relieves those complexities



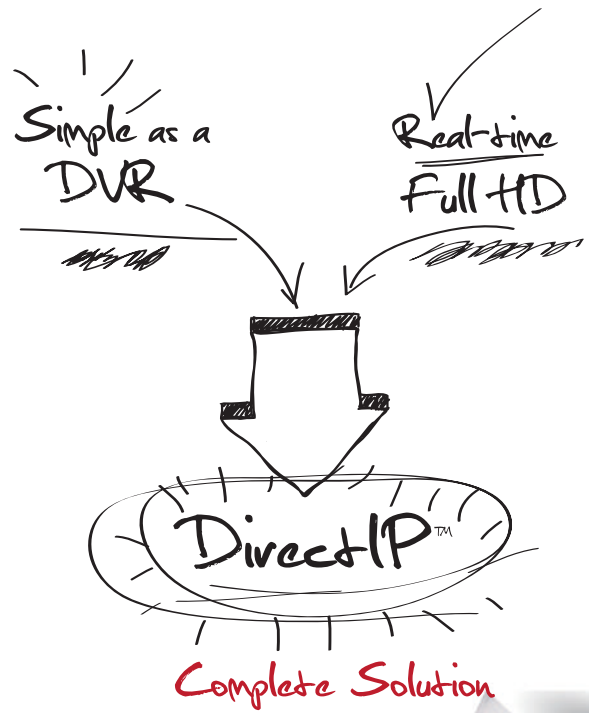
The simple and the most complete HD surveillance solution

Direct IP™

IDIS is a company that has been primarily responsible for the innovation of DVRs since 1997 and now IDIS is proud to introduce the next generation of HD surveillance solutions called DirectIP™ solutions. Unique to the industry, DirectIP™ is the easiest and the most complete HD surveillance solution available to the security market.

The primary goal of DirectIP™ technology is to provide customers with an HD surveillance solution which is easy to use, simple to install and quick to configure through 'plug-and-play' capability. DirectIP™ consists of IP cameras, NVRs and VMS software, all designed to be optimised within a network.

DirectIP™ allows real-time monitoring without any degradation of image quality while simultaneously recording within networks. DirectIP™ is exclusive to the industry and ensures genuine compatibility, integration and functionality as a complete one stop shop solution.



DirectIP is a networked HD video surveillance solution with NVRs similar to traditional DVR. DirectIP defines a set of protocols and operations among DirectIP devices as well as a set of methods to connect to DirectIP devices.

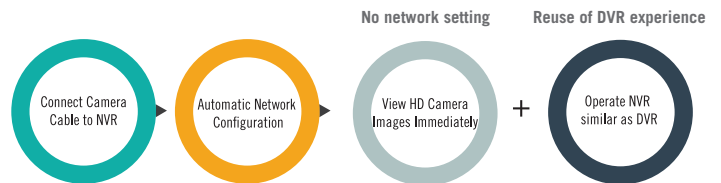


IP without the PC

DirectIP's "IP without the PC" concept permits simple installation and configuration allowing instant streaming once connected. Once connected to network keyboard and mouse, DirectIP NVR can setup and handle DirectIP cameras without any PC.

Zero configuration (Plug & Play)

DirectIP enables true plug and play installation which eliminates the need for costly installation and integration support. DirectIP enables true plug and play installation with IDIS's proprietary, automated set of protocols including AutoIP, Multicast DNS and DNS Service Directory techniques.



Real time live monitoring and recording with Full HD resolution

DirectIP™ network solutions generate excellent network throughput, which can subsequently maintain stable HD quality video regardless of external network traffic. NVRs can support real-time surveillance and deliver enhanced features such as smart search and event management.

IDIS DirectIP™ solutions can record in HD (or higher) from multiple mega pixel cameras direct to the NVR in real-time without degradation of quality, access or system stability.

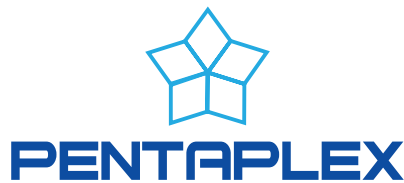
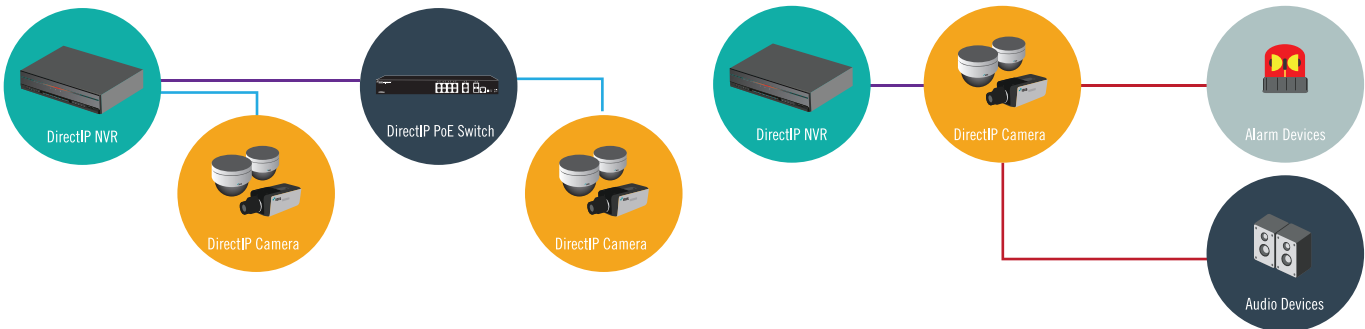


Multiple independent video streams

DirectIP™ enables independent live monitoring, recording and remote monitoring. Multiple independent video streams from cameras to NVRs allow local surveillance and recording, with added smart features to control resolution, quality and bit rate independently.

Easy Installation

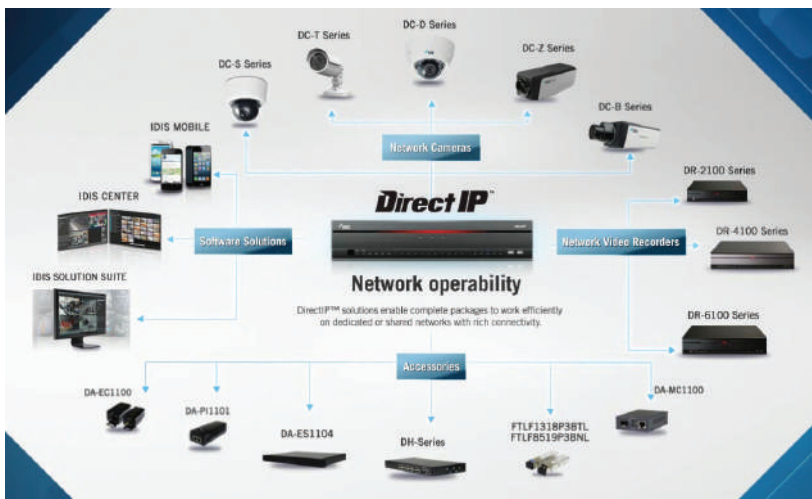
DirectIP supports PoE cameras and powers them through the data cable line, removing the need for additional external cabling. In addition, DirectIP provides simple audio and alarm input/output systems using a DirectIP camera with audio I/O and alarm I/O ports.



Pentaplex processing

IDIS DirectIP NVRs can readily perform five operational processes simultaneously:

- Live-view
- Record
- Playback
- Remote access
- Backup of recorded audio / video



Complete video surveillance solutions suitable for wide range of applications

DirectIP enables complete packages to work efficiently on dedicated or shared networks with rich connectivity. These complete packages meet the demands of user applications from a single location to more complex multi-site locations.

Especially, IDIS VMS solutions provide unparalleled flexibility, control and security with its intuitively designed GUI. Combined with web client and mobile apps, IDIS provides complete VMS solutions with remote connectivity.

Compatibility and Integration

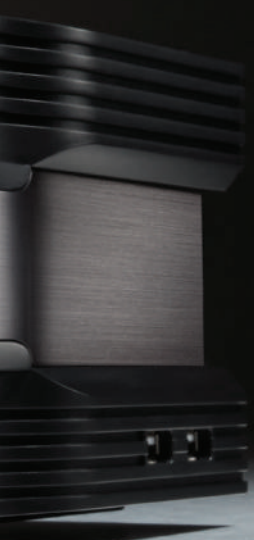
IDIS Solution Suite, IDIS's versatile VMS (Video Management Software), allows user to manage integrated security from both an NVR-based network security and existing DVR-based systems.

DirectIP is the best operational interface for integration with existing sensors, audio, ATM/POS, storage devices, video sources and recorders. In addition, DirectIP supports models of some third parties and ONVIF cameras even if performance and functions are limited.



NETWORK VIDEO RECORDERS





High performance and reliability

simply the best performance for your IP surveillance

Full mega-pixel IP camera support with efficient data processing and a high hardware specification ensure a smoother operation that guarantees the best performance of your IP solution. With DirectIP™ NVRs the hardware is fully optimised for the stable performance of network devices, so you can realize a real-time live viewing and real-time recording network surveillance solution. DirectIP™ NVRs allow simultaneous functionality and operation including live-view, record, playback, remote access and backup of compressed audio and video.

Zero Configuration (Plug & Play)

DirectIP NVR packs an array of advanced network technology which provides industry's unique, true plug and play installation which eliminates the need for costly installation and integration support.

DirectIP Protocols

DirectIP NVRs provide true plug and play installation with IDIS's proprietary, automated set of protocols including AutoIP, Multicast DNS and DNS Service Directory techniques.

FEN (For Every Network)

IDIS FEN is an automated network configuration service which simplifies installation of networked surveillance systems. FEN enables users to set up and configure surveillance systems without knowledge of Network Address Translation routers on the network and their configurations. It ensures connections between video surveillance devices regardless of network environment.

IP without the PC

DirectIP's "IP without the PC" concept permits simple installation and configuration allowing instant streaming once connected. Once connected to network keyboard and mouse, DirectIP NVR can handle device configuration, digital video matrix, and video wall display without any PC. Furthermore, DirectIP only allows minimal delay of about 300ms which is similar to that of HD-SDI solutions and outpaces most IP surveillance solutions in the market.

Full HD Real-time Monitoring & Recording

DirectIP network solutions yield greater network throughput. Combined with IDIS's unique multi-streaming technology, DirectIP provides the highest quality of full-HD video surveillance regardless external network traffic.

Quadruple Video Streams

DirectIP features quadruple stream technology to enhance its live monitoring quality. By allowing 2 separate streams for live monitoring (i.e. Live 1 for full screen and 2x2, Live 2 for 3x3, 4x4 and 6x6), DirectIP provides unrivalled quality of live monitoring that no other IP surveillance solution offers.

Enhanced Data Security

DirectIP features powerful data security technologies to effectively protect video data from possible fraud, damage and modification attempts while on recording as well as on transmitting process.

Chained Fingerprint Technique

Chained fingerprinting allows effective tracking of data forgery by marking fingerprints on multimedia(video/audio) data on recording. By matching fingerprints from original records, administrators can easily trace,search,delete and alter data partially

iBank

iBank is IDIS's proprietary multimedia file system and database architecture. Featuring latest version of iBank file system, DirectIP NVRs provide effective and robust data recording, searching and management as below.

- Restore and restructure the damaged area that contains index information
- Improve multi-channel video recording and searching performance
- Effective text searching function

Automated Time Sync

DirectIP NVR provides automated time synchronization with its connected IP cameras using IDIS's own Tick Sync technology. Upon connection, DirectIP NVR automatically calculates time difference between multiple cameras and servers, and adjusts time information of recorded video into single, standard time.

Non-linear Time Shifting Recording (NLTSR)

With the non-linear time shifting recording technique, DirectIP NVRs guarantee seamless video recording even under unstable network conditions. When network fails, up to several minutes of video data will be instantly stored in IP camera's internal buffer memory then automatically transferred to NVR after network recovery.

Overlapped Recording Search

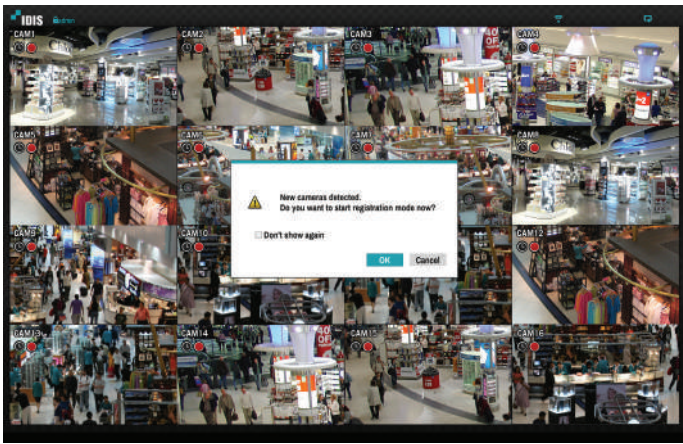
When a user changes NVR system time to the past point, video data for the overlapped time period is to be recorded in different segments. This enables video data for the overlapped time searched in different time set and prevents any possible loss of video data or discrepancy on time-based search.

PoE (Power over Ethernet)

DirectIP NVRs support seamless power supply over Ethernet cable without any degrading network performance and reach. Combined with DirectIP's 'true plug and play' feature, PoE enables instant identification and activation of IP cameras upon their physical connection. All DirectIP NVRs compliance both IEEE802.3af and IEEE802.3at standard which makes them capable of powering most IP cameras as well as high power-consuming devices such as PTZ domes.

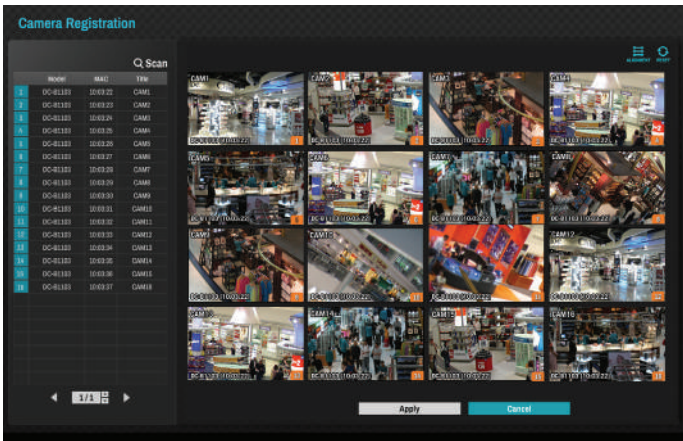
Easy firmware update

User can easily update DirectIP NVR and camera's firmware locally or remotely. With using USB memory stick which has new firmware, user can update DirectIP NVR and camera's firmware via DirectIP NVR without any PC. In addition, DirectIP NVR and camera's firmware can be updated remotely using IDIS Center on Windows PC.

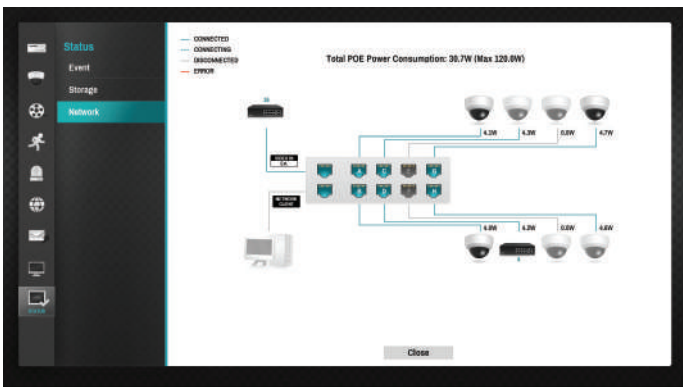


Camera Registration Mode

A message will appear on the screen when a new camera is detected. Select OK to enter Camera Registration Mode.



As DirectIP Camera is detected automatically, it can be simply registered in NVR in Camera Register Mode. Even if Network Camera does not set IP address, it is possible to scan and register the camera in NVR just by connecting it to the Video-In port of the NVR. You can scan, search and register cameras that were not detected automatically including third party cameras.



Network Status Information




Network Status window provides a complete overview of the network status in real-time.

Network status shows the camera connection status, LAN port link status, power consumption, number of connected clients and network connection info.




Camera Connection	indicates the camera is connected. indicates the camera is not connected.
Network Switch	indicates a network switch is connected to the LAN port and shows how many cameras are connected.
LAN Port Link	indicates a camera or a network switch is connected. indicates neither is connected.
Power Consumption	If receiving power from the NVR, the actual amount of power consumed by each camera is indicated under each camera icon. Total power consumption is shown at the top of the screen in the following format: [Total POE power Consumption: 30.7W(Max 120.0W)] Ports A through H in PoE-enabled products support PoE. (VIDEO IN Ext.) and (NETWORK CLIENT) ports do not support PoE.
Number of Connected Clients	Indicates whether there are clients connected to the NVR via an external network and how many clients are connected. indicates at least one client is connected. indicates no client is connected.
Network Connection Info	Indicates network connection statuses (connected, connecting, disconnected, and connection error) using following lines: CONNECTED CONNECTING DISCONNECTED ERROR

NVR SELECTION



Direct IP™ 2000 Series

Model	Max.Throughput			Video Inputs	Network port		Max.HDD		RAID TYPE	Camera Power
	incoming	Recording	Live		Client	Video In	SATA	eSATA		
DR-2204P 	84Mbps	32Mbps 120ips@Full HD	120ips	4CH IP	1	4	2	1	-	4CH
DR-2208P 	116Mbps	64Mbps 240ips@Full HD	240ips	8CH IP	1	8+1	2	1	-	8CH
DR-2216P 	116Mbps	64Mbps 480ips@Full HD	480ips	16CH IP	1	8+1	2	1	-	8CH

Direct IP™ 3000 Series

Model	Max.Throughput			Video Inputs	Network port		Max.HDD		RAID TYPE	Camera Power
	incoming	Recording	Live		Client	Video In	SATA	eSATA		
DR-3104P 	84Mbps	32Mbps 120ips@Full HD	120ips	4CH IP	1	4+1	4	1	-	4CH
DR-3108P 	116Mbps	64Mbps 240ips@Full HD	240ips	8CH IP	1	8+1	4	1	-	8CH
DR-3116PS 	116Mbps	64Mbps 480ips@Full HD	480ips	16CH IP	1	16+1	4	1	-	16CH

Direct IP™ 4000 Series

Model	Max.Throughput			Video Inputs	Network port		Max.HDD		RAID TYPE	Camera Power
	incoming	Recording	Live		Client	Video In	SATA	eSATA		
DR-4208P 	170Mbps	80Mbps 240ips@Full HD	240ips	8CH IP	1	9	4	2	1	8CH
DR-4216P 	230Mbps	130Mbps 480ips@Full HD	480ips	16CH IP	1	9	4	2	1	8CH

Direct IP™ 6000 Series

Model	Max.Throughput			Video Inputs	Network port		Max.HDD		RAID TYPE	Camera Power
	incoming	Recording	Live		Client	Video In	SATA	eSATA		
DR-6216P 	260Mbps	160Mbps 480ips@Full HD	480ips	16CH IP	1	9	6	4	1	8CH
DR-6216P-S 	260Mbps	160Mbps 480ips@Full HD	480ips	16CH IP	1	9	6	4	1	8CH
DR-6232P 	330Mbps	230Mbps 960ips@Full HD	960ips	32CH IP	1	9	6	4	1	8CH
DR-6232P-S 	330Mbps	230Mbps 960ips@Full HD	960ips	32CH IP	1	9	6	4	1	8CH
DR-6216PS 	260Mbps	160Mbps 480ips@Full HD	480ips	16CH IP	1	16+1	6	4	1	16CH
DR-6216PS-S 	260Mbps	160Mbps 480ips@Full HD	480ips	16CH IP	1	16+1	6	4	1	16CH
DR-6232PS 	330Mbps	230Mbps 960ips@Full HD	960ips	32CH IP	1	16+1	6	4	1	16CH
DR-6232PS-S 	330Mbps	230Mbps 960ips@Full HD	960ips	32CH IP	1	16+1	6	4	1	16CH



DirectIP™ 2200 Series 4-channel Full HD Recorder

DR-2204P

- Total Incoming throughput 84Mbps
- Up to 120ips Full HD real-time recording
- Up to 120ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 4-channel PoE switch
- Expandable up to 24TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

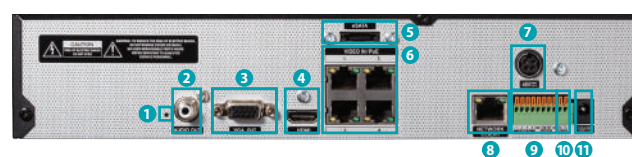


SPECIFICATIONS

VIDEO	
Video Inputs	4 IP channels
Max. Incoming Throughput	84Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 120ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	32Mbps, 120ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 2, eSATA x 1, (Up to 4TB capacity for each disk)
Total Capacity	24TB=4TB x (2 +1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 4
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 4 ports, 50W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : - / 1RCA + 1HDMI IP Camera : 4 / 4 (Depending on IP Camera)
Alarm In / Out	Local(NVR) : 4 / 1 IP Camera : 4 / 4 (Depending on IP Camera)
Alarm Reset In	-
Serial Interface	RS232 (Terminal Block)
USB	USB 2.0 x 1, USB 3.0 x 1
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	300mm x 62mm x 231 mm (11.8" x 2.4" x 9.1")
Unit Weight	2.3kg (5.1lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 2.1A (for NVR), DC48V 1.0A(for PSE)
Power Consumption	25.2W (for NVR), Max. 52W (for PSE)
Approvals	FCC, CE, KC, PSE

DIMENSIONS

(Unit - mm)



- 1 Factory Reset Button
- 2 Audio Port
- 3 VGA Out Port
- 4 HDMI Out Port
- 5 eSATA Port
- 6 Video In / PoE Ports
- 7 Power In Port (48V)
- 8 Network Port
- 9 Alarm Connection Ports
- 10 RS-232 Port
- 11 Power In Port (12V)

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 2200 Series 8-channel Full HD Recorder

DR-2208P

- Total incoming throughput 116Mbps
- Up to 240ips Full HD real-time recording
- Up to 240ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel PoE switch
- Expandable up to 24TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

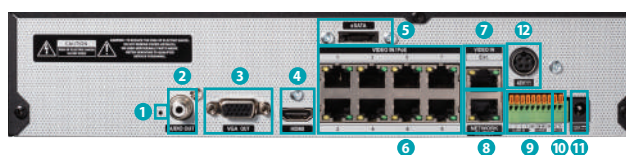
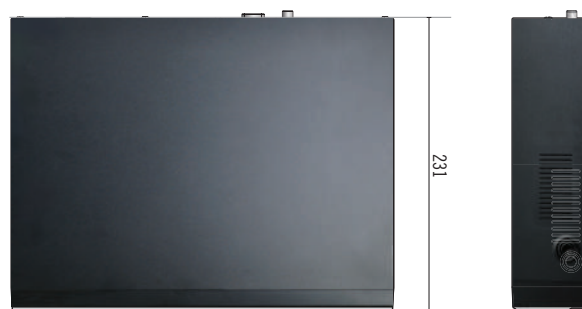


SPECIFICATIONS

VIDEO	
Video Inputs	8 IP channels
Max. Incoming Throughput	116Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	64Mbps, 240ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 2, eSATA x 1, (Up to 4TB capacity for each disk)
Total Capacity	24TB=4TB x (2 +1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 8 + Gigabit Ethernet(Ext) x 1
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 50W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : - / 1RCA + 1HDMI IP Camera : 8 / 8 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 8 / 8 (Depending on IP Camera)
Alarm Reset In	-
Serial Interface	RS232 (Terminal Block)
USB	USB 2.0 x 1, USB 3.0 x 1
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	300mm x 62mm x 231 mm (11.8" x 2.4" x 9.1")
Unit Weight	2.3kg (5.1lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 2.1A (for NVR), DC48V 1.08A(for PSE)
Power Consumption	Max. 25.2W (for NVR), Max. 52W (for PSE)
Approvals	FCC, CE, KC, PSE

DIMENSIONS

(Unit - mm)



- | | |
|------------------------|--------------------------|
| ① Factory Reset Button | ⑦ Video In / Ext. Port |
| ② Audio Port | ⑧ Network Port |
| ③ VGA Out Port | ⑨ Alarm Connection Ports |
| ④ HDMI Out Port | ⑩ RS-232 Port |
| ⑤ eSATA Port | ⑪ Power In Port (12V) |
| ⑥ Video In / PoE Ports | ⑫ Power In Port (48V) |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 2200 Series 16-channel Full HD Recorder

DR-2216P

- Total incoming throughput 116Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8 channel PoE Switch and expandable up to 16 Channel using DirectIP™ Gigabit PoE Switch
- Expandable up to 24TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

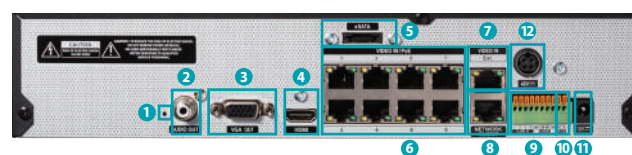
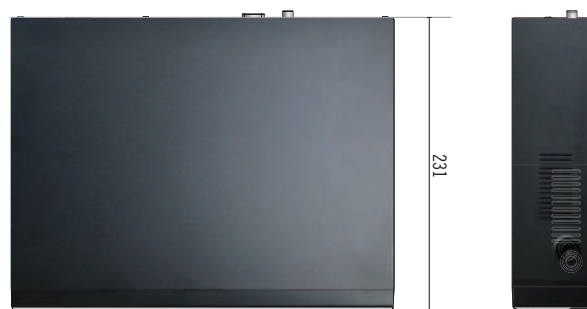


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	116Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	64Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 2, eSATA x 1, (Up to 4TB capacity for each disk)
Total Capacity	24TB=4TB x (2 + 1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 8 + Gigabit Ethernet(Ext) x 1
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 50W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : - / 1RCA + 1HDMI IP Camera : 16 / 16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 / 16 (Depending on IP Camera)
Alarm Reset In	-
Serial Interface	RS232 (Terminal Block)
USB	USB 2.0 x 1, USB 3.0 x 1
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	300mm x 62mm x 231 mm (11.8" x 2.4" x 9.1")
Unit Weight	2.3kg (5.1lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 2.1A (for NVR), DC48V 1.08A(for PSE)
Power Consumption	Max. 25.2W (for NVR), Max. 52W (for PSE)
Approvals	FCC, CE, KC, PSE

DIMENSIONS

(Unit - mm)



- | | |
|------------------------|--------------------------|
| 1 Factory Reset Button | 7 Video In / Ext. Port |
| 2 Audio Port | 8 Network Port |
| 3 VGA Out Port | 9 Alarm Connection Ports |
| 4 HDMI Out Port | 10 RS-232 Port |
| 5 eSATA Port | 11 Power In Port (12V) |
| 6 Video In / PoE Ports | 12 Power In Port (48V) |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 3100 Series 4channel Full HD Recorder

DR-3104P

- Total Incoming throughput 84Mbps
- Up to 120ips Full HD real-time recording
- Up to 120ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 4 channel PoE Switch
- Expandable up to 32TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

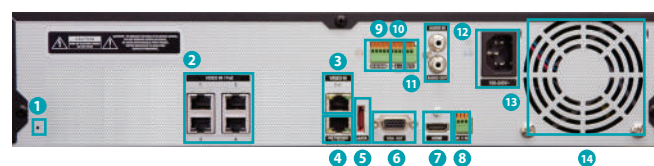
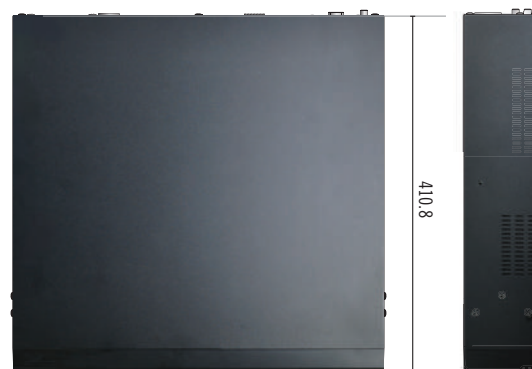
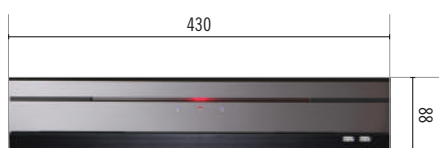


SPECIFICATIONS

VIDEO	
Video Inputs	4 IP channels
Max. Incoming Throughput	84Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 120ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	32Mbps, 120ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1, (Up to 4TB capacity for each disk)
Total Capacity	32TB~4TB x (4 +1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 4 + Gigabit Ethernet(Ext) x 1
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 4 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local(NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 4 / 4 (Depending on IP Camera)
Alarm In / Out	Loca I(NVR) : 4 / 1 IP Camera : 4 / 4 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.2 ~ 0.6A
Power Consumption	Max. 200W (with 4 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|------------------------|------------------------|------------------|
| 1 Factory Reset Button | 7 HDMI Out Port | 13 Power In Port |
| 2 Video In / PoE Ports | 8 Alarm Connection Out | 14 Vent |
| 3 Video In / Ext. Port | 9 Alarm Connection In | |
| 4 Network Port | 10 RS-485 Port | |
| 5 eSATA Port | 11 RS-232 Port | |
| 6 VGA Out Port | 12 Audio Ports | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 3100 Series 8channel Full HD Recorder

DR-3108P

- Total incoming throughput 116Mbps
- Up to 240ips Full HD real-time recording
- Up to 240ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8 channel PoE Switch
- Expandable up to 32TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

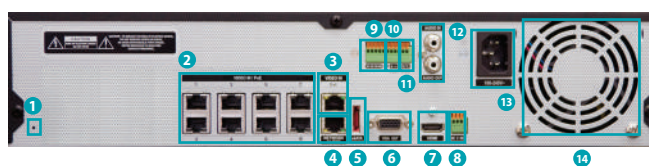
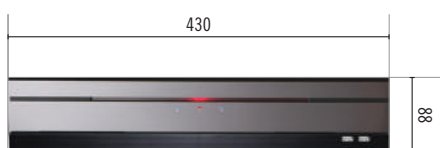


SPECIFICATIONS

VIDEO	
Video Inputs	8 IP channels
Max. Incoming Throughput	116Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	64Mbps, 240ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x (4 +1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 8 + Gigabit Ethernet(Ext) x 1
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local(NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 8 / 8 (Depending on IP Camera)
Alarm In / Out	Local(NVR) : 4 / 1 IP Camera : 8 / 8 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.2 ~ 0.6A
Power Consumption	Max. 200W (with 4 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|------------------------|------------------------|------------------|
| 1 Factory Reset Button | 7 HDMI Out Port | 13 Power In Port |
| 2 Video In / PoE Ports | 8 Alarm Connection Out | 14 Vent |
| 3 Video In / Ext. Port | 9 Alarm Connection In | |
| 4 Network Port | 10 RS-485 Port | |
| 5 eSATA Port | 11 RS-232 Port | |
| 6 VGA Out Port | 12 Audio Ports | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DR-3116PS

- Total incoming throughput 116Mbps
- Up to 480ips Full HD recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 16 channel PoE Switch
- Expandable up to 32TB
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

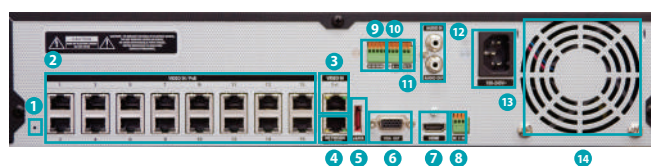
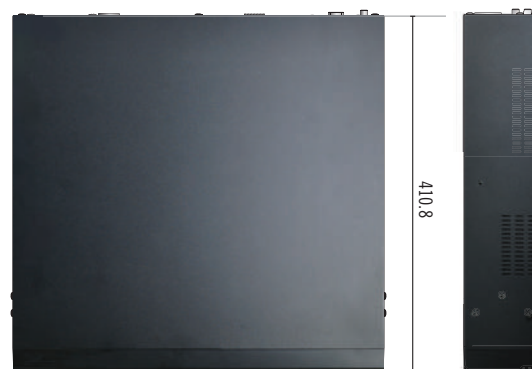
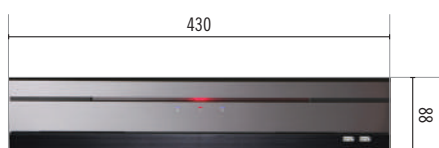


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	116Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	64Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Modes	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1,(Up to 4TB capacity for each disk)
Total Capacity	32TB~4TB x (4 +1 x 4)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 16 + Gigabit Ethernet(Ext) x 1
Transmission Speed	20Mbps / 50Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 16 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local(NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 / 16 (Depending on IP Camera)
Alarm In / Out	Loca I(NVR) : 4 / 1 IP Camera : 16 / 16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.2 ~ 0.6A
Power Consumption	Max. 200W (with 4 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|------------------------|------------------------|------------------|
| 1 Factory Reset Button | 7 HDMI Out Port | 13 Power In Port |
| 2 Video In / PoE Ports | 8 Alarm Connection Out | 14 Vent |
| 3 Video In / Ext. Port | 9 Alarm Connection In | |
| 4 Network Port | 10 RS-485 Port | |
| 5 eSATA Port | 11 RS-232 Port | |
| 6 VGA Out Port | 12 Audio Ports | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 4200 Series 8-channel Full HD Recorder

DR-4208P

- Total incoming throughput 170Mbps
- Up to 240ips Full HD real-time recording
- Up to 240ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel Gigabit PoE switch
- Expandable up to 48TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

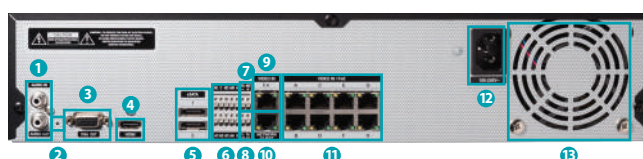
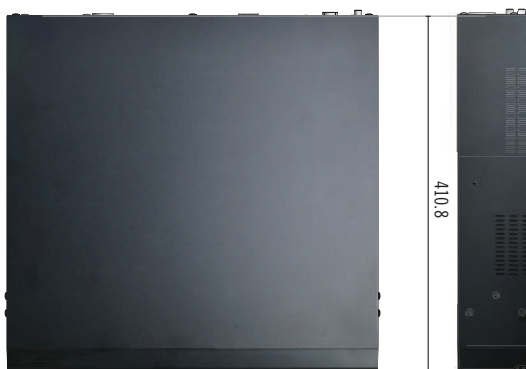
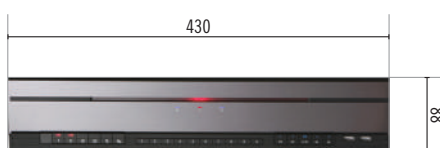


SPECIFICATIONS

VIDEO	
Video Inputs	8 IP channels
Max. Incoming Throughput	170Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	80Mbps, 240ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 2, (Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	48TB=4TB x (4(Internal) + 4 x 2(External))
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 8 / 8 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 8 / 8 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 4 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DR-4216P

- Total incoming throughput 230Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8 channel Gigabit PoE Switch and expandable up to 16 Channel using DirectIP™ Gigabit PoE Switch
- Expandable up to 48TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

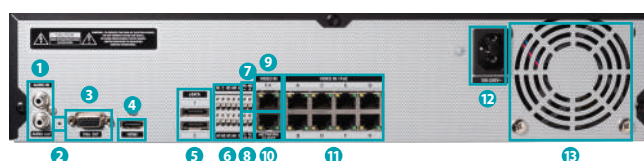
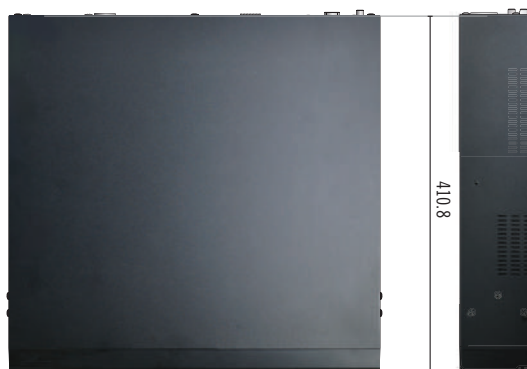
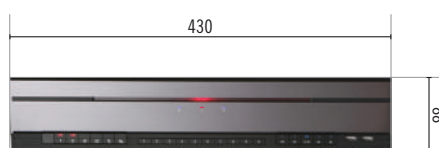


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	230Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	130Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 2,(Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	48TB=4TB x (4/Internal) + 4 x 2(External)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 / 16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 / 16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 4 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 16channel Full HD Recorder

DR-6216P

- Total incoming throughput 260Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel PoE switch and expandable up to 16 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

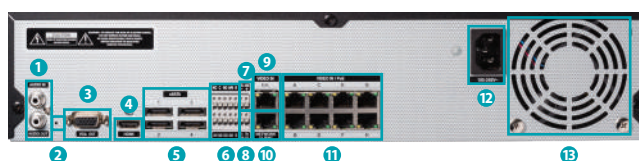
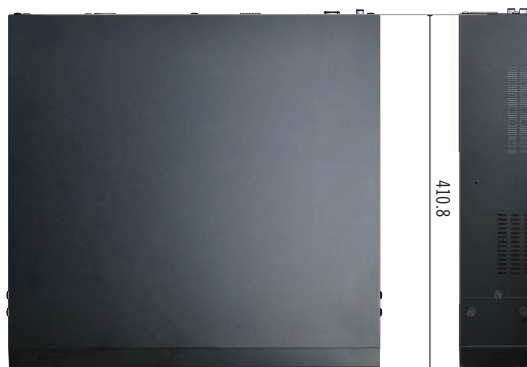


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	260Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	160Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4,(Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x (6(Internal) + 4 x 4(External))
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series – DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 /16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 /16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DR-6216P-S

- Total incoming throughput 260Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel PoE switch and expandable up to 16 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

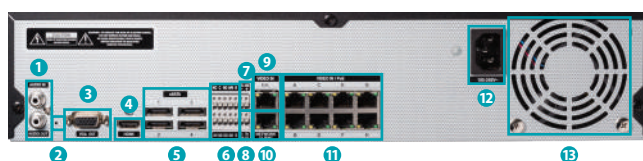
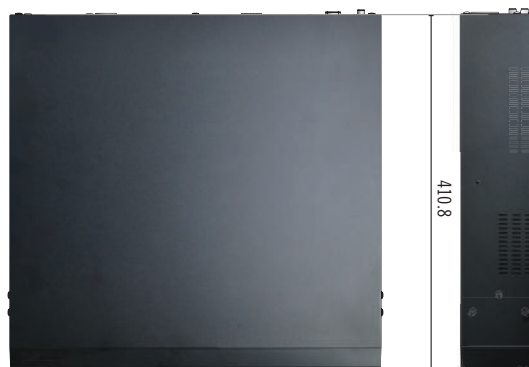


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	260Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	160Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4, (Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x (6Internal) + 4 x 4(External)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 /16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 /16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, CB, UL

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 32channel Full HD Recorder

DR-6232P

- Total incoming throughput 330Mbps
- Up to 960ips Full HD real-time recording
- Up to 960ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel PoE switch and expandable up to 32 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

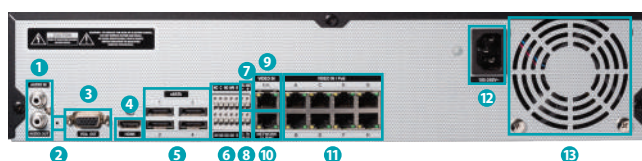
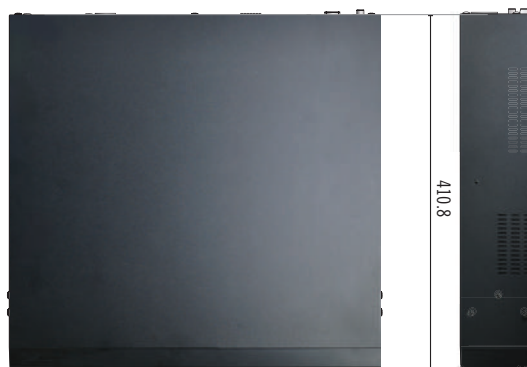


SPECIFICATIONS

VIDEO	
Video Inputs	32 IP channels
Max. Incoming Throughput	330Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 960ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	230Mbps, 960ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4,(Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x (6(Internal) + 4 x 4(External))
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / IRCA + 1HDMI IP Camera : 32 / 32 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 32 / 32 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, CB, UL

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 32channel Full HD Recorder

DR-6232P-S

- Total incoming throughput 330Mbps
- Up to 960ips Full HD real-time recording
- Up to 960ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 8-channel PoE switch and expandable up to 32 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

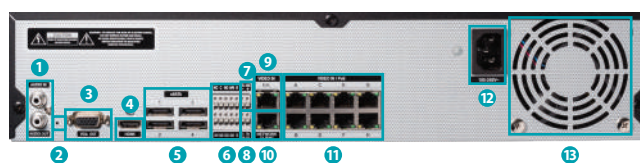
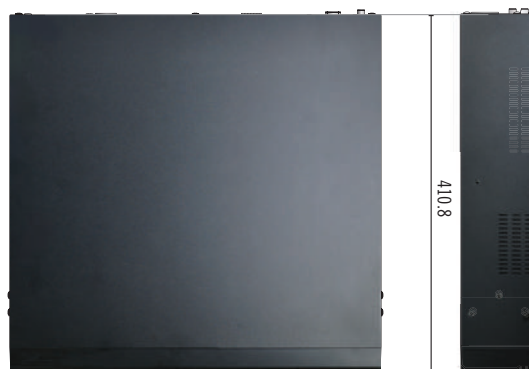


SPECIFICATIONS

VIDEO	
Video Inputs	32 IP channels
Max. Incoming Throughput	330Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 960ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	230Mbps, 960ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4, (Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x 6 (Internal) + 4 x 4 (External)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Gigabit Ethernet(IP Camera) x 9
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 8 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 32 / 32 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 32 / 32 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, CB, UL

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-------------------------|---------|
| 1 Audio Ports | 7 RS-485 Port | 13 Vent |
| 2 Factory Reset Button | 8 RS-232 Port | |
| 3 VGA Out Port | 9 Network Port | |
| 4 HDMI Out Port | 10 Video In / Ext. Port | |
| 5 eSATA Ports | 11 Video In / PoE Ports | |
| 6 Alarm Connection Ports | 12 Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 16channel Full HD Recorder

DR-6216PS

- Total incoming throughput 260Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 16-channel PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

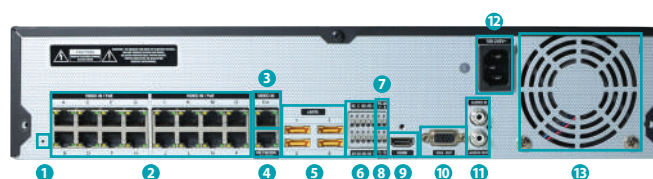
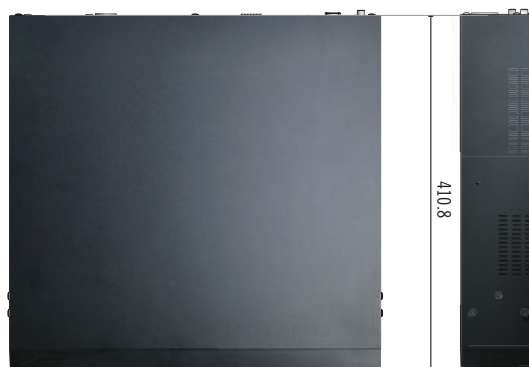


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	260Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	160Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4,(Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x (6(Internal) + 4 x 4(External))
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 16 + Gigabit Ethernet(Ext) x 1
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 16 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 /16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 /16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- 1 Factory Reset Button
- 2 Video In / PoE Ports
- 3 Video In / Ext. Port
- 4 Network Port
- 5 eSATA Ports
- 6 Alarm Connection Ports
- 7 RS-485 Port
- 8 RS-232 Port
- 9 HDMI Out Port
- 10 VGA Out Port
- 11 Audio Ports
- 12 Power In Port
- 13 Vent

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 16channel Full HD Recorder

DR-6216PS-S

- Total incoming throughput 260Mbps
- Up to 480ips Full HD real-time recording
- Up to 480ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 16-channel PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

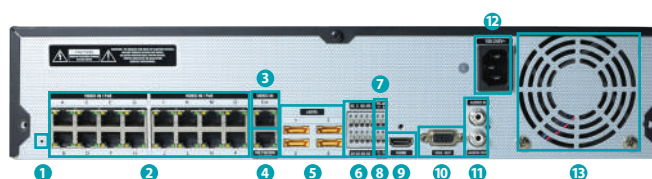
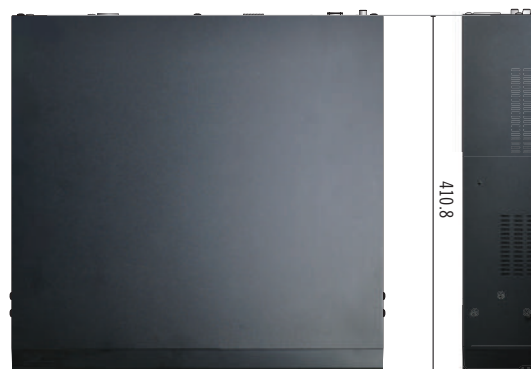


SPECIFICATIONS

VIDEO	
Video Inputs	16 IP channels
Max. Incoming Throughput	260Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	160Mbps, 480ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4, (Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x 6 (Internal) + 4 x 4 (External)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 16 + Gigabit Ethernet(Ext) x 1
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 16 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 16 /16 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 16 /16 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, CB, UL

DIMENSIONS

(Unit - mm)



- | | | |
|--------------------------|-----------------|--------|
| ① Factory Reset Button | ⑦ RS-485 Port | ⑬ Vent |
| ② Video In / PoE Ports | ⑧ RS-232 Port | |
| ③ Video In / Ext. Port | ⑨ HDMI Out Port | |
| ④ Network Port | ⑩ VGA Out Port | |
| ⑤ eSATA Ports | ⑪ Audio Ports | |
| ⑥ Alarm Connection Ports | ⑫ Power In Port | |

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DirectIP™ 6200 Series 32channel Full HD Recorder

DR-6232PS

- Total incoming throughput 330Mbps
- Up to 960ips Full HD real -time recording
- Up to 960ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 16-channel PoE switch and expandable up to 32 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

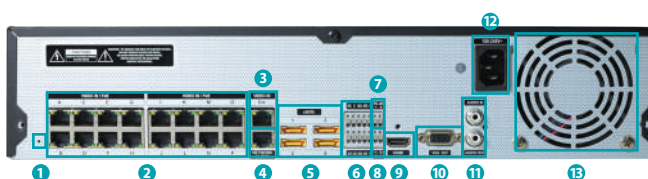
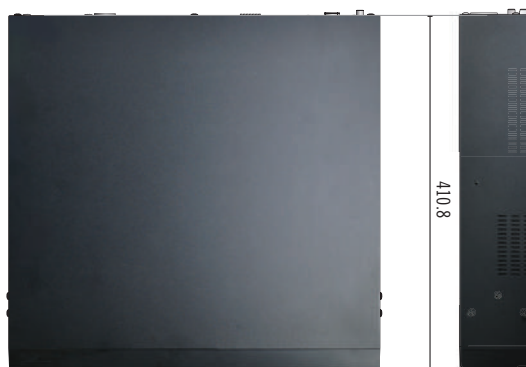


SPECIFICATIONS

VIDEO	
Video Inputs	32 IP channels
Max. Incoming Throughput	330Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200 , 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 960ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	230Mbps, 960ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4,(Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x (6(Internal) + 4 x 4(External))
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 16 + Gigabit Ethernet(Ext) x 1
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 16 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 32 / 32 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 32 / 32 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
USB	USB 2.0 x 2
User Interface	Front buttons, Mouse, IR remote control, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
UNIT Dimensions (W x H x D)	430mm x 88mm x 410.8 mm (16.9" x 3.5" x 16.2")
Unit Weight	6.0kg (13.2lbs) (with 1 HDD)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- 1 Factory Reset Button
- 2 Video In / PoE Ports
- 3 Video In / Ext. Port
- 4 Network Port
- 5 eSATA Ports
- 6 Alarm Connection Ports
- 7 RS-485 Port
- 8 RS-232 Port
- 9 HDMI Out Port
- 10 VGA Out Port
- 11 Audio Ports
- 12 Power In Port
- 13 Vent

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

DR-6232PS-S

- Total incoming throughput 330Mbps
- Up to 960ips Full HD real-time recording
- Up to 960ips live display
- Easy to install, set-up and play with DirectIP™ cameras
- Built-in 16-channel PoE switch and expandable up to 32 channels using DirectIP Gigabit PoE switch
- Expandable up to 88TB using eSATA storage
- Supports one click network configuration through FEN service
- Supports third party cameras (Axis, Panasonic, ONVIF™)

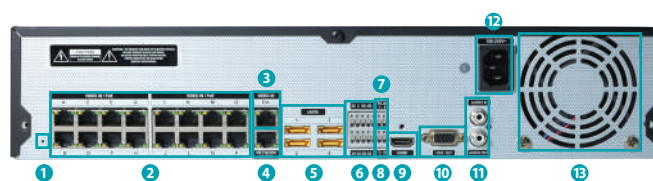
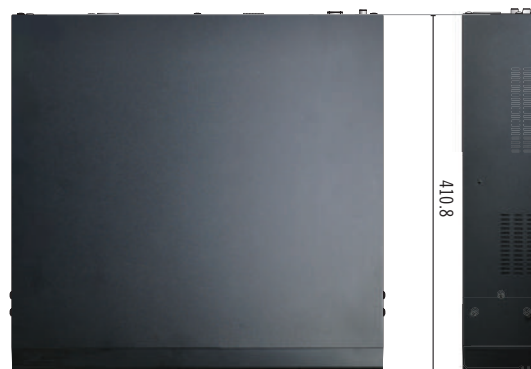


SPECIFICATIONS

VIDEO	
Video Inputs	32 IP channels
Max. Incoming Throughput	330Mbps
Supported Camera	DirectIP™, AXIS, PANASONIC, ONVIF™
Video Outputs	1 HDMI, 1 VGA
Display Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200
Display Speed	Up to 960ips
Digital Zoom	x2 ~ x12
RECORDING	
Max. Throughput	230Mbps, 960ips@Full HD
Recording Resolution	Up to 8MP (Depending on IP Camera)
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Audio detection, Motion detection, Trip-zone Tampering, Video loss
PLAYBACK	
Performance	4ch Full HD synchronous playback
Search Mode	Time-lapse, Event log, Thumbnail, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 6, eSATA x 4, (Up to 4TB capacity for each disk) RAID 1 supported
Total Capacity	88TB=4TB x 6 (Internal) + 4 x 4 (External)
NETWORK	
Client Connection	Gigabit Ethernet(Client) x 1
Video in Connection	Fast Ethernet(IP Camera) x 16 + Gigabit Ethernet(Ext) x 1
Transmission Speed	50Mbps / 100Mbps(BRP Mode)
Camera Power	PoE(IEEE 802.3at class 4) supported 16 ports, 120W
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	IDIS Center – DC Series, DR Series - DC Series
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web, IDIS Solution Suite
INTERFACE	
Audio In / Out	Local (NVR) : 1 RCA / 1RCA + 1HDMI IP Camera : 32 / 32 (Depending on IP Camera)
Alarm In / Out	Local (NVR) : 4 / 1 IP Camera : 32 / 32 (Depending on IP Camera)
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), RS485 (Terminal Block)
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Power Input	AC 100-240 V, 50/60Hz, 3.0 - 1.5A
Power Consumption	Max. 200W (with 6 HDDs)
Approvals	FCC, CE, CB, UL

DIMENSIONS

(Unit - mm)



- 1 Factory Reset Button
- 2 Video In / PoE Ports
- 3 Video In / Ext. Port
- 4 Network Port
- 5 eSATA Ports
- 6 Alarm Connection Ports
- 7 RS-485 Port
- 8 RS-232 Port
- 9 HDMI Out Port
- 10 VGA Out Port
- 11 Audio Ports
- 12 Power In Port
- 13 Vent

ACCESSORIES(OPTIONAL)



DH-2212PF



DA-ES1104

NETWORK CAMERAS

High resolution network cameras




























Quadruple video streaming for real-time IP surveillance



























DirectIP™ network cameras provide high resolution image quality using a mega-pixel image sensor and seamless images by quadruple multimedia data streaming technology. Once you install and connect DirectIP™ network cameras and NVRs, the system will automatically display live video without any configuration. With a wide range of cameras available, you can find a network camera to meet your surveillance and environmental needs.

SIDIS



CAMERA SELECTION

	Model		Max Resolution	Image Sensor	Lens	TDN / WDR	IR LED	Audio In / Out	Alarm In / Out	Outdoor Ready	Input Power
BOX	DC-B1101		1280 x 720	1/2.7" CMOS	Optional (C/CS mount)	-	-	-	-	-	12VDC PoE
	DC-B1103		1280 x 720	1/2.7" CMOS	Optional (C/CS mount)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-B1203		1920 x 1080	1/2.7" CMOS	Optional (C/CS mount)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-B1203X		1920 x 1080	1/2.8" CMOS	Optional (C/CS mount)	Yes(ICR) WDR	-	1 / 1	1 / 1	-	12VDC PoE
	DC-B1303		2304 x 1296	1/3" CMOS	Optional (C/CS mount)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-B1803		3840 x 2160	1/2.3" CMOS	Optional (C/CS mount)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
DOME	DC-D1111		1280 x 720	1/2.7" CMOS	Fixed-focal (f = 4.0mm)	-	-	-	-	-	12VDC PoE
	DC-D1122		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	-	-	-	12VDC PoE
	DC-D1122R		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	-	-	-	12VDC PoE
	DC-D1122W		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	-	-	IP66	12VDC PoE
	DC-D1122WR		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	-	-	IP66	12VDC PoE
	DC-D1123		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-D1123R		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	-	12VDC PoE
	DC-D1123W		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D1123WR		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D1123WHR		1280 x 720	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-D1212R		1920 x 1080	1/2.7" CMOS	Fixed-focal (f = 4.0mm)	Yes(ICR)	10m (16ea)	-	-	-	PoE
	DC-D2212R		1920 x 1080	1/2.9" CMOS	Fixed-focal (f = 4.0mm)	Yes(ICR)	15m (2ea)	-	-	-	12VDC PoE
	DC-D1223		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-D1223R		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	-	12VDC PoE
	DC-D1223W		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D1223WR		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D1223WHR		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-D1223WX		1920 x 1080	1/2.8" CMOS	Vari-focal (f= 3 - 9mm)	Yes(ICR) WDR	-	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D1323R		2304 x 1296	1/3" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	-	12VDC PoE
	DC-D1323WHR		2304 x 1296	1/3" CMOS	Vari-focal (f= 3.3 - 10mm)	Yes(ICR)	20m (18ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-D2233		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE

	Model		Max Resolution	Image Sensor	Lens	TDN / WDR	IR LED	Audio In / Out	Alarm In / Out	Outdoor Ready	Input Power
DOME	DC-D2233R		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR)	20m (28ea)	1 / 1	1 / 1	-	12VDC PoE
	DC-D2233W		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D2233WR		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR)	20m (28ea)	1 / 1	1 / 1	IP66	12VDC PoE
	DC-D2233WHR		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR)	20m (28ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-D2233WHX		1920 x 1080	1/2.8" CMOS	MFZ (f= 3.3 - 10mm)	Yes(ICR) WDR	20m (28ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-D1223F		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 9mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-D1223FR		1920 x 1080	1/2.7" CMOS	Vari-focal (f= 3.3 - 9mm)	Yes(ICR)	20 m (18ea)	1 / 1	1 / 1	-	12VDC PoE
	DC-F1111A		1280 x 720	1/4" CMOS	Fixed-focal (f=2.8mm)	-	-	-	-	-	PoE
	DC-F1211		1920 x 1080	1/2.7" CMOS	Fixed-focal (f = 4.0mm)	-	-	-	-	-	PoE
	DC-F1211A		1920 x 1080	1/2.7" CMOS	Fixed Lens (f=2.8mm)	-	-	-	-	-	PoE
FISHEYE	DC-Y1513		2560 x 2048	1/1.8" CMOS	Fixed Lens (f=1.45mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC PoE
	DC-Y1513W		2560 x 2048	1/1.8" CMOS	Fixed Lens (f=1.45mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66	12VDC PoE
SPEED DOME	DC-S1163WH		1280 x 720	1/2.8" CMOS	18x A/F Zoom Lens (f=4.7 - 84.6mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66 Heater	12VDC 24VAC PoE
	DC-S1263WH		1920 x 1080	1/2.8" CMOS	18x A/F Zoom Lens (f=4.7 - 84.6mm)	Yes(ICR)	-	1 / 1	1 / 1	IP66 Heater	12VDC 24VAC PoE
	DC-S1283WHX		1920 x 1080	1/2.8" CMOS	30x A/F Zoom Lens (f= 4.3 ~ 129mm)	Yes(ICR) WDR	-	1 / 1	1 / 1	IP66 Heater	12VDC 24VAC PoE
	DC-S1263F		1920 x 1080	1/2.8" CMOS	18x A/F Zoom Lens (f=4.7 - 84.6mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC 24VAC PoE
	DC-S1283FX		1920 x 1080	1/2.8" CMOS	30x AF Zoom Lens (f= 4.3 ~ 129mm)	YES(ICR) WDR	-	1 / 1	1 / 1	-	12VDC 24VAC PoE
	DC-S1283FX		1920 x 1080	1/2.8" CMOS	30x AF Zoom Lens (f= 4.3 ~ 129mm)	YES(ICR) WDR	-	1 / 1	1 / 1	-	24VAC
BULLET	DC-T1232WR		1920 x 1080	1/2.8" CMOS	MFZ (f=3.3 ~ 10mm)	Yes(ICR)	30m (42ea)	-	-	IP66	12VDC PoE
	DC-T1233WHR		1920 x 1080	1/2.8" CMOS	MFZ (f=3.3 ~ 10mm)	Yes(ICR)	30m (42ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-T1234WR		1920 x 1080	1/2.8" CMOS	MFZ (f=3.3 ~ 10mm)	Yes(ICR)	30m (24ea) / White LED (6ea)	-	0 / 1	IP66	12VDC PoE
	DC-T1233WHX		1920 x 1080	1/2.8" CMOS	MFZ (f=3.3 ~ 10mm)	Yes(ICR) WDR	20m (42ea)	1 / 1	1 / 1	IP66 Heater	12VDC PoE
	DC-E1112WR		1280 x 720	1/2.7" CMOS	Fixed-focal (f=4.0mm)	Yes(ICR)	10m (24ea)	-	-	IP66	PoE
	DC-E1212WR		1920 x 1080	1/2.7" CMOS	Fixed-focal (f=4.0mm)	Yes(ICR)	10m (24ea)	-	-	IP66	PoE
ZOOM	DC-Z1163		1280 x 720	1/2.8" CMOS	18x A/F Zoom Lens (f=4.7 ~ 84.6mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC 24VAC PoE
	DC-Z1263		1920 x 1080	1/2.8" CMOS	18x A/F Zoom Lens (f=4.7 ~ 84.6mm)	Yes(ICR)	-	1 / 1	1 / 1	-	12VDC 24VAC PoE

HD Box Camera

DC-B1101

- Easy installation with DirectIP NVR
- HD (720p) resolution
- PoE (IEEE 802.3af Class 2), 12V DC
- Supports ONVIF

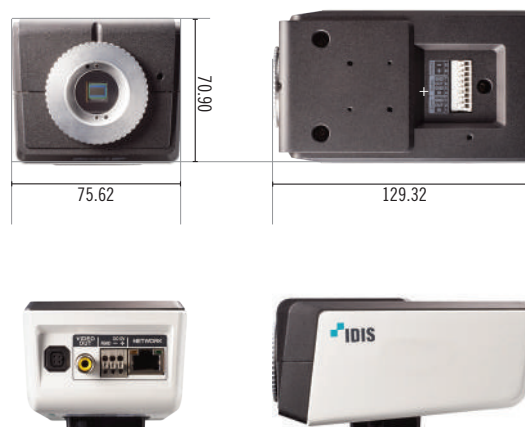


SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Optional (C/CS mount)	
Iris Control	DC Auto Iris / Manual Iris	
Min. Illumination	COLOR : 0.7 lux @ F1.2 B/W : 0.8 lux @ F1.2	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	Electrical	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 RCA	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS ONVIF Profile S
Bitrate Control	H.264 - CBR / VBR	1920x1080, 1280x720, 704x480, 352x240
Max. Frame Rate	30fps : 1280 x 720	352x240
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTp, SMTp, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
Alarm & Event		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In / Out	-	
Alarm In / Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE (IEEE802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")	
Weight	0.4 kg (0.89 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Box Camera

DC-B1103

- Easy installation with DirectIP NVR
- HD (720p) resolution
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af Class 2), 12V DC
- Day&night (ICR)
- Supports ONVIF

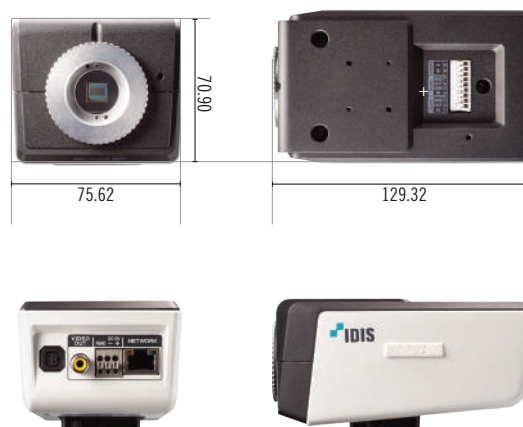


SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1280 x 720
Scanning Mode	Progressive Scan
Lens type	Optional (C/CS mount)
Iris Control	DC Auto Iris / Manual Iris
Min. Illumination	COLOR : 0.08 lux @ F1.2 B/W : 0.08 lux @ F1.2
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)
Day & Night	IR cut filter with auto switch
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 RCA
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MP), M-JPEG
Bitrate Control	H.264 - CBR / VBR
Max. Frame Rate	30fps : 1280 x 720
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS
Supported Resolution	1280x720, 704x480, 640x360 1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming Triple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x
Remote Access Client	DirectIP™ NVR connection IP Filtering, HTTPS, SSL Encryption
Ethernet	RJ45(10/100BASE-T)
Edge Storage	micro SD/SDHC
ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In / Out	Line-in 1ea + Internal Mic 1ea / Line-out 1ea
Alarm In / Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal-proof Casing	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
Approvals	FCC, CE(50130-4), KC
MECHANICAL	
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")
Weight	0.4 kg (0.89 lb)

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Box Camera

DC-B1203

- Easy installation with DirectIP NVR
- Full HD(1080p) resolution
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af Class 2), 12V DC
- Day&night (ICR)
- Supports ONVIF

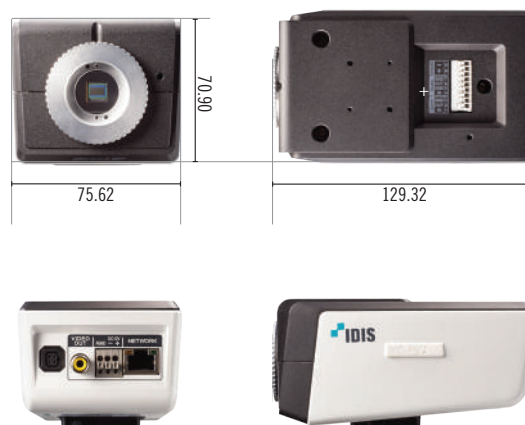


SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Optional (C/CS mount)	
Iris Control	DC Auto Iris / Manual Iris	
Min. Illumination	COLOR : 0.08 lux @ F1.2 B/W : 0.08 lux @ F1.2	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 RCA	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480,
Audio Compression	G.726, G.711	352x240
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS
Supported Resolution	1280x720, 704x480, 640x360	ONVIF Profile S
Multi-Video Streaming	Quadruple streaming	1920x1080, 1280x720, 704x480,
Network Protocols	Direct IP Protocol	352x240
Security	SSL Encryption	Triple streaming
Remote Access Client	DirectIP™ NVR connection	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP,
Ethernet	RJ45(10/100BASE-T)	RTP/UDP RTSP/TCP, HTTP, HTTPS,
Edge Storage	micro SD/SDHC	FTP, SNMP, SMTP, FEN, mDNS,
		uPNP
		Multi-User Authority, IEEE 802.1x
		IP Filtering, HTTPS, SSL Encryption
		IDIS Web, IDIS Mobile, IDIS Solution Suite
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In / Out	Line-in 1ea + Internal Mic 1ea / Line-out 1ea	
Alarm In / Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")	
Weight	0.4 kg (0.89 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Box Camera

DC-B1203X

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- True WDR
- Low light enhancer
- DIS (Digital Image Stabilizer)
- Supports ONVIF

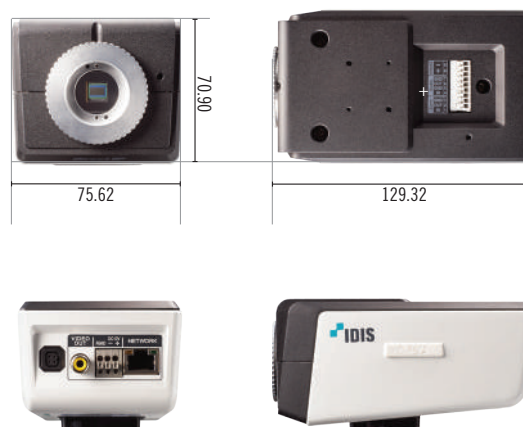


SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	Optional (C/CS mount)
Iris Control	DC Auto Iris / Manual Iris
Min. Illumination	COLOR : 0.01 lux @ F1.2 B/W : 0.005 lux @ F1.2
S/N Ratio	more than 45dB
Dynamic Range	120dB (True WDR)
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5,1/7.5,1/15)
Day & Night	IR cut filter with auto switch
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	-
Image Stabilizer	Yes (DIS)
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm
Video Out	1 RCA
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MP), M-JPEG
Bitrate Control	H.264 - VBR
Max. Frame Rate	60fps : 1920 x 1080 30fps : 1920 x 1080(WDR)
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240 1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming Triple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)
Edge Storage	micro SD/SDHC
ALARM & EVENT	
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In / Out	Line-in 1ea + Internal Mic 1ea / Line-out 1ea
Alarm In / Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal-proof Casing	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
Approvals	FCC, CE(50130-4), KC
MECHANICAL	
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")
Weight	0.4 kg (0.89 lb)

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



3MP Full HD Box Camera

DC-B1303

- Easy installation with DirectIP NVR
- 3MP (2304x1296) resolution
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- Supports ONVIF

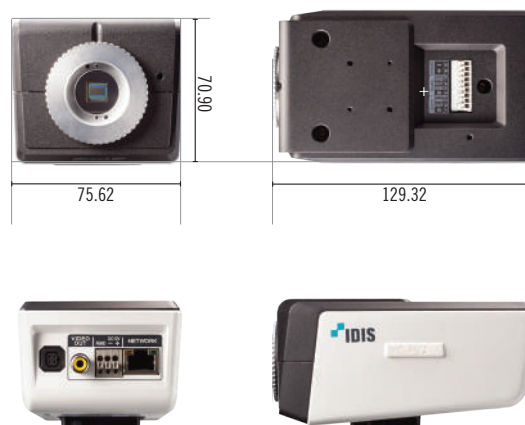


SPECIFICATIONS

VIDEO		
Image Sensor	1/3" CMOS	
Max. Resolution	2304 x 1296	
Scanning Mode	Progressive Scan	
Lens type	Optional (C/CS mount)	
Iris Control	DC Auto Iris / Manual Iris	
Min. Illumination	COLOR : 0.4 lux @ F1.4 B/W : 0.01 lux @ F1.4	
S/N Ratio	39dB	
Dynamic Range	69.5dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 RCA	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	15fps : 2304 x 1296 30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	2304x1296, 1920x1080, 1280x720, 704x480, 640x360, 352x240	2304x1296, 1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In / Out	Line-in 1ea + Internal Mic 1ea / Line-out 1ea	
Alarm In / Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")	
Weight	0.4 kg (0.89 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



4K Ultra HD Box Camera

DC-B1803

- Easy installation with DirectIP NVR
- 4K UHD (3840x2160) resolution
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- Supports ONVIF

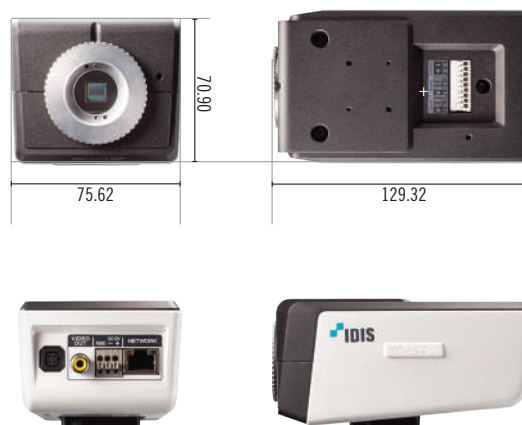


SPECIFICATIONS

VIDEO	
Image Sensor	1/2.3" CMOS
Max. Resolution	3840 x 2160
Scanning Mode	Progressive Scan
Lens type	Optional (C/CS mount)
Iris Control	P-Iris / DC Auto Iris / Manual Iris
Min. Illumination	COLOR : 0.4 lux F1.6 BW : 0.009 lux F1.6
S/N Ratio	more than 45dB
Dynamic Range	more than 70 dB [TBD]
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5,1/7.5,1/15)
Day & Night	IR cut filter with auto switch
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm, Trip Zone
Video Out	1 RCA
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MP), M-JPEG
Bitrate Control	H.264 - VBR
Max. Frame Rate	30fps : 3840 x 2160 60fps : 1920 x 1080
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS ONVIF Profile S
Supported Resolution	3840 x 2160 (8MP), 1920x1080, 1280x720, 704x480, 352x240 3840 x 2160 (8MP), 1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming Triple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)
Edge Storage	micro SD / SDHC / SDXC
ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 100MB)
Event Notification	Remote S/W, Email (with Image)
Audio In / Out	Line-in 1ea + Internal Mic 1ea / Line-out 1ea
Alarm In / Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal-proof Casing	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 3)
Power Consumption	8.4W
Approvals	FCC, CE(50130-4), KC
MECHANICAL	
Dimensions (W x H x D)	75.62mm x 70.90mm x 129.32mm (2.98" x 2.8" x 5.1")
Weight	0.4 kg (0.89 lb)

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Dome Camera

DC-D1111

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Fixed-focal lens(f=4.0mm)
- PoE(IEEE 802.3af class 2), 12V DC
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=4.0mm	
Aperture	F2.0	
Iris Control	Fixed Iris	
Angular Field of View	90.3°(H), 47.0°(V), 108.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 75°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.5 lux @ F2.0 B/W : 0.3 lux @ F2.0	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	Electrical	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE (IEEE802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø132mm x 103mm (Ø5.2" x 4.06")	
Weight	0.35 kg (0.78 lbs)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Dome Camera

DC-D1122

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal Lens (f= 3.3 ~ 10mm)
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	Fixed Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0.006 lux @ F1.5	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP,
Network Protocols	Direct IP Protocol	RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE (IEEE802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")	
Weight	0.51 kg (1.13 lb)	



DIMENSIONS

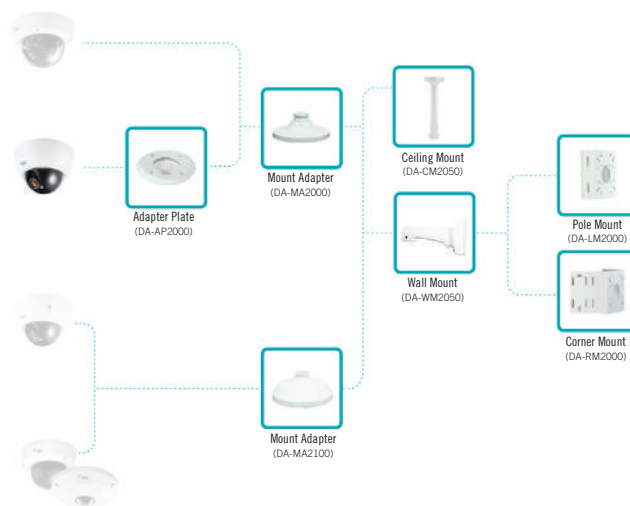
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD IR Dome Camera

DC-D1122R

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal Lens (f= 3.3 ~ 10mm)
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS ONVIF Profile S
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE (IEEE802.3af class 2)	
Power Consumption	5.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.51 kg (1.13 lb)	



DIMENSIONS

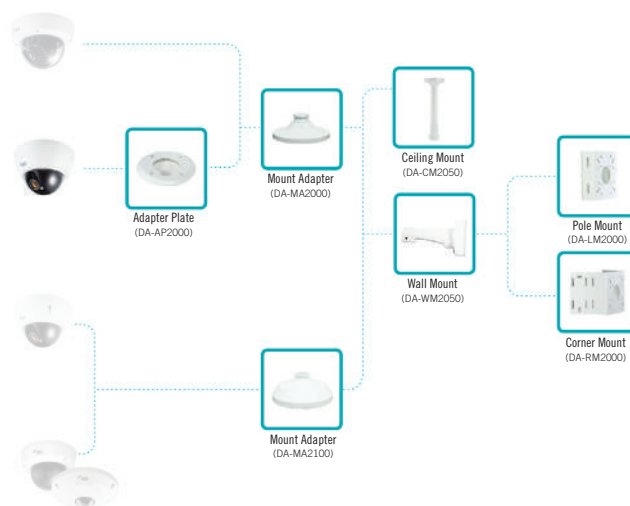
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Vandal-resistant Dome Camera

DC-D1122W

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1280 x 720
Scanning Mode	Progressive Scan
Lens type	Vari-focal
Focal Length	f=3.3 - 10mm
Aperture	F1.5 - 2.5
Iris Control	DC Auto Iris
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0.006 lux @ F1.5
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	-
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 Terminal Block

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	

ALARM & EVENT	
Trigger Event	Motion Detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	-
Alarm In/ Out	-

ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
Approvals	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")
Weight	0.87 kg (1.92 lb)

DIMENSIONS

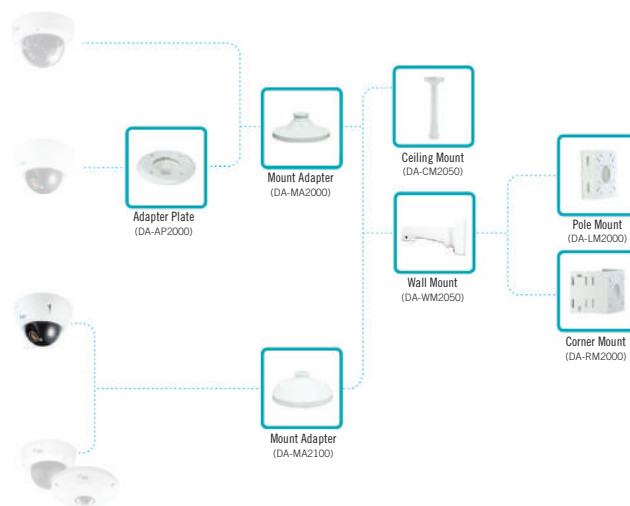
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Vandal-resistant IR Dome Camera

DC-D1122WR

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE (IEEE802.3af class 2)	
Power Consumption	5.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.87 kg (1.92 lb)	



DIMENSIONS

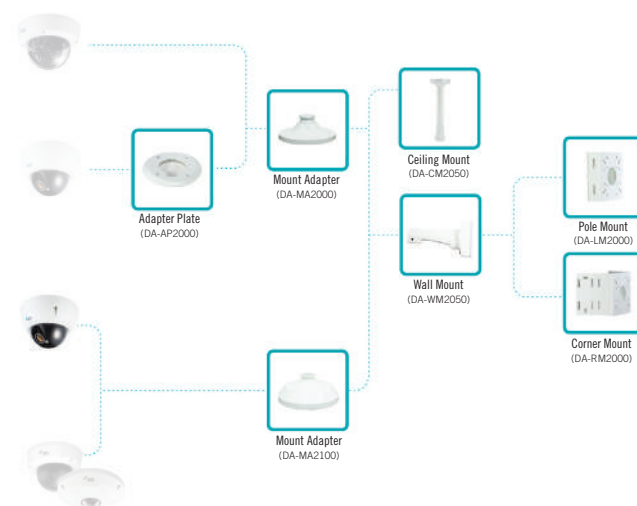
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Dome Camera

DC-D1123

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0.006 lux @ F1.5	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")	
Weight	0.51 kg (1.13 lb)	

DIMENSIONS

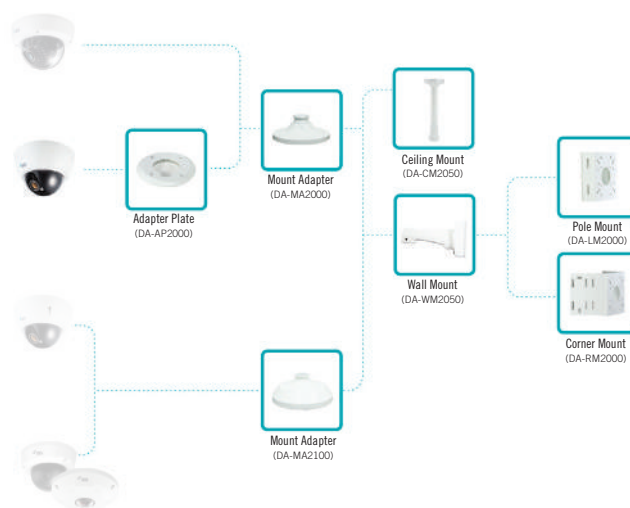
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD IR Dome Camera

DC-D1123R

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	5.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.51 kg (1.13 lb)	

DIMENSIONS

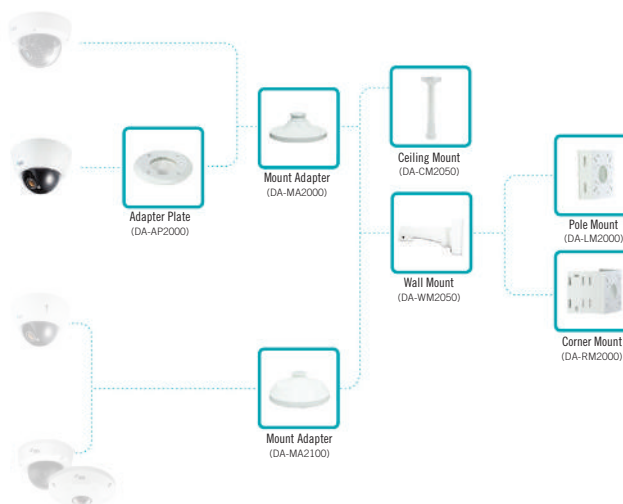
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Vandal-resistant Dome Camera

DC-D1123W

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0.006 lux @ F1.5	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")	
Weight	0.87 kg (1.92 lb)	

DIMENSIONS

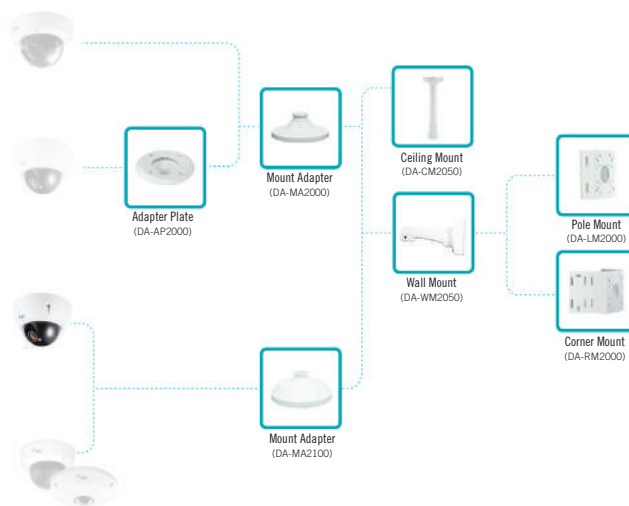
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Vandal-resistant IR Dome Camera

DC-D1123WR

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1280 x 720
Scanning Mode	Progressive Scan
Lens type	Vari-focal
Focal Length	f=3.3 - 10mm
Aperture	F1.5 - 2.5
Iris Control	DC Auto Iris
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0 lux (IR LED ON)
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	20m (18ea)
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 Terminal Block

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	

ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	Line-in 1ea / Line-out 1ea
Alarm In/ Out	Input 1ea / Output 1ea

ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 2)
Power Consumption	5.6W
Approvals	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")
Weight	0.87 kg (1.92 lb)



DIMENSIONS

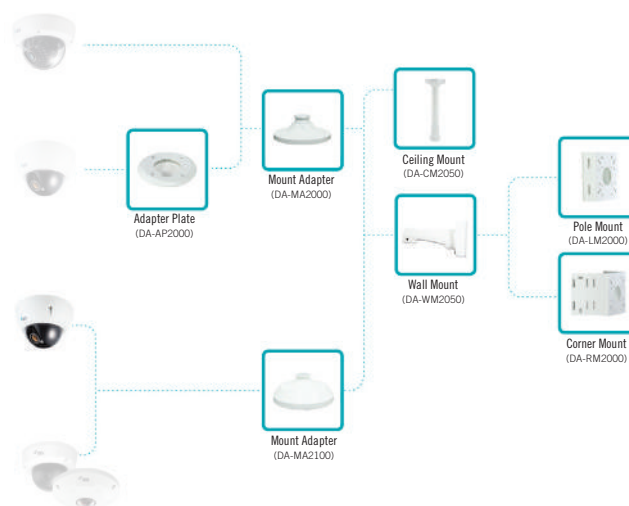
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD Vandal-Resistant IR Dome Camera

DC-D1 123WHR

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.5 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 105.5°(H), 55.4°(V), 125.3°(D) Tele : 35.3°(H), 19.7°(V), 40.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.6 lux @ F1.5 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	19.2W (Heater on DC 12V input)	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.87 kg (1.92 lb)	



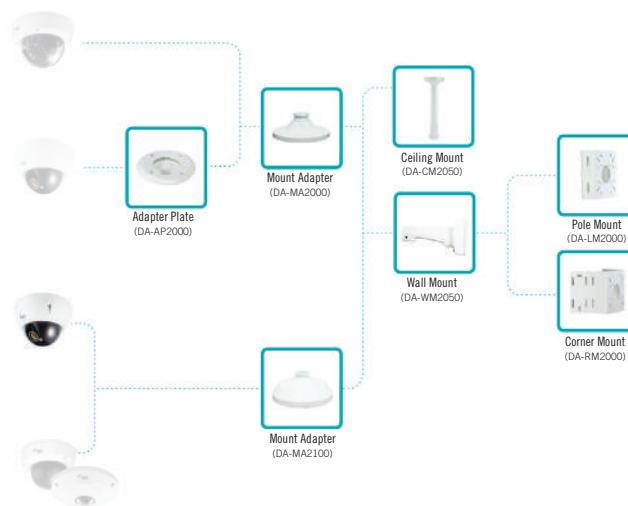
DIMENSIONS



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Dome Camera

DC-D1212R

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Fixed-focal lens (f=4.0mm)
- PoE (IEEE 802.3af class 2)
- Day&night (ICR)
- IR LED (Distance : 10m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=4.0mm	
Aperture	F2.0	
Iris Control	Fixed Iris	
Angular Field of View	90.3°(H), 47°(V), 108.4°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 75°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.2 lux @F2.0 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	10m (16ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1280 x 720	1920x1080, 1280x720,
Audio Compression	-	704x480, 352x240
Two-way audio	-	Triple streaming
IP Camera Protocol	DirectIP	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP,
Supported Resolution	1920x1080, 1280x720,	RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP,
Multi-Video Streaming	704x480, 640x360, 352x240	SNTP, SMTP, FEN, mDNS, uPNP
Network Protocols	Direct IP Protocol	Multi-User Authority, IEEE 802.1x
Security	SSL Encryption	IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)	
	*Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø132mm x 103mm (Ø5.2" x 4.06")	
Weight	0.35 kg (0.78 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Dome Camera

DC-D2212R

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Fixed Lens (f=4.0mm)
- micro SD/SDHC
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 15m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.9" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=4.0mm	
Aperture	F2.0	
Iris Control	Fixed Iris	
Angular Field of View	84.4°(H), 50.3°(V), 104.6°(D)	
Pan/Tilt Range	Pan: -180° ~ 174°, Tilt: 0° ~ 65°	
Min. Illumination	COLOR : 0.07 lux @F2.0 B/W : 0 lux (IR LED ON)	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	15m (2ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC(Accessory)	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	3.96W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø131 x 75.8mm (Ø5.16" x 2.99")	
Weight	0.3 kg (0.66 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



DA-WM2150

ACCESSORIES CONFIGURATION TREE



Wall Mount (DA-WM2150)

Full HD Dome Camera

DC-D1223

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	Vari-focal
Focal Length	f=3.3 - 10mm
Aperture	F1.3 - 2.5
Iris Control	DC Auto Iris
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0.002 lux @ F1.3
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	-
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 Terminal Block
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MP), M-JPEG
Bitrate Control	H.264 - CBR / VBR
Max. Frame Rate	30fps : 1920 x 1080
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240 1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming Triple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTp, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)
Edge Storage	micro SD/SDHC
ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	Line-in 1ea / Line-out 1ea
Alarm In/ Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal-proof Casing	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
Approvals	FCC, CE(50130-4), KC
MECHANICAL	
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")
Weight	0.51 kg (1.13 lb)

DIMENSIONS

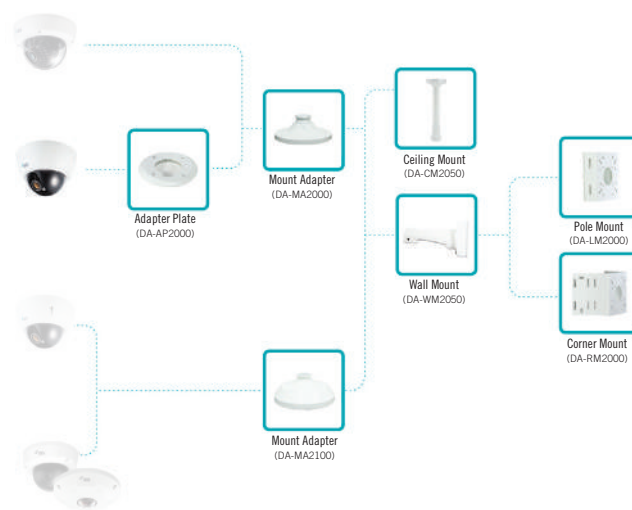
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Dome Camera

DC-D1223R

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal Lens (f=3.3~10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	Triple streaming
Two-way audio	Yes	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP
IP Camera Protocol	DirectIP	Multi-User Authority, IEEE 802.1x
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	IP Filtering, HTTPS, SSL Encryption
Multi-Video Streaming	Quadruple streaming	IDIS Web, IDIS Mobile, IDIS Solution Suite
Network Protocols	Direct IP Protocol	
Security	SSL Encryption	
Remote Access Client	DirectIP™ NVR connection	
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	5.6W	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.51 kg (1.13 lb)	

DIMENSIONS

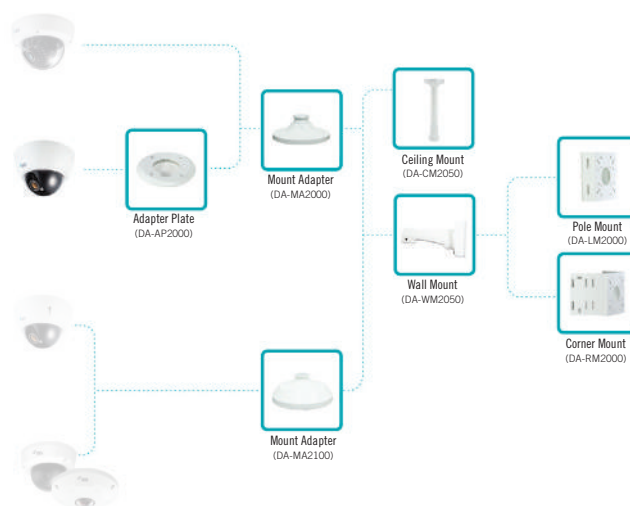
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Vandal-resistant Camera

DC-D1223W

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal Lens (f=3.3~10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0.002 lux @ F1.3	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	Triple streaming
Two-way audio	Yes	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
IP Camera Protocol	DirectIP	Multi-User Authority, IEEE 802.1x
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	IP Filtering, HTTPS, SSL Encryption
Multi-Video Streaming	Quadruple streaming	IDIS Web, IDIS Mobile, IDIS Solution Suite
Network Protocols	Direct IP Protocol	
Security	SSL Encryption	
Remote Access Client	DirectIP™ NVR connection	
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")	
Weight	0.87 kg (1.92 lb)	

DIMENSIONS

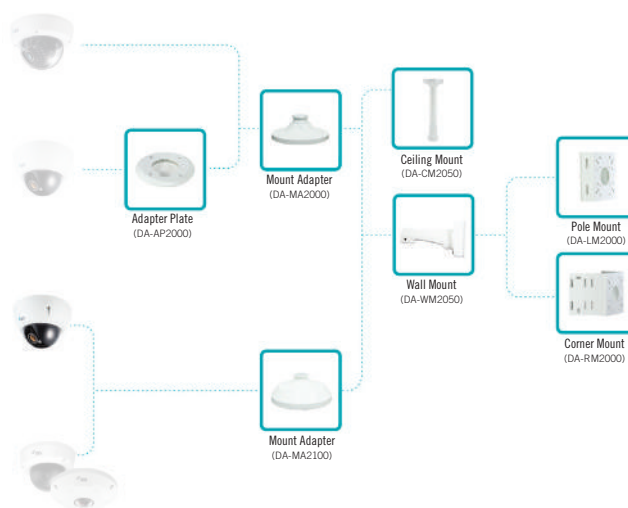
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Vandal-resistant IR Camera

DC-D1223WR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	Triple streaming
Two-way audio	Yes	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
IP Camera Protocol	DirectIP	Multi-User Authority, IEEE 802.1x
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	IP Filtering, HTTPS, SSL Encryption
Multi-Video Streaming	Quadruple streaming	IDIS Web, IDIS Mobile, IDIS Solution Suite
Network Protocols	Direct IP Protocol	
Security	SSL Encryption	
Remote Access Client	DirectIP™ NVR connection	
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	5.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.87 kg (1.92 lb)	



DIMENSIONS

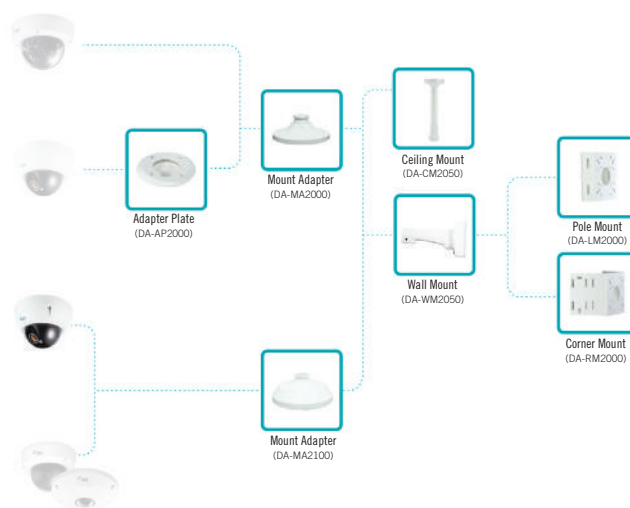
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Vandal-resistant IR Camera

DC-D1223WHR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal lens(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	19.2W (Heater on DC 12V input)	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")	
Weight	0.87 kg (1.92 lb)	



DIMENSIONS

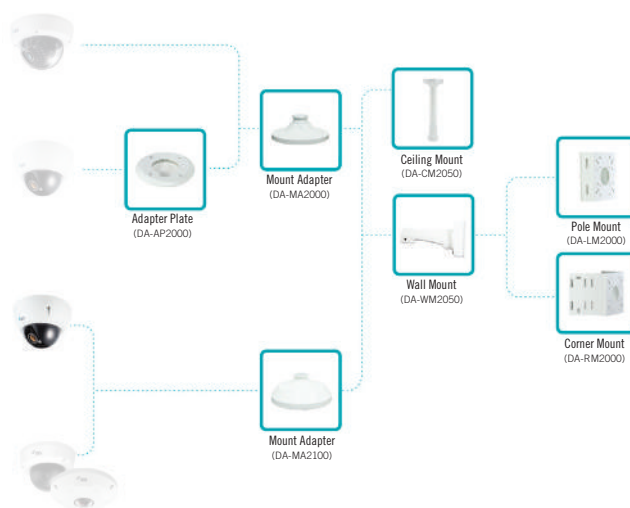
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Vandal-resistant Dome Camera

DC-D1223WX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal lens (f=3 - 9mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- True WDR
- DIS (Digital Image Stabilizer)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3 - 9mm	
Aperture	F1.2 - 2.3	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 111.0°(H), 57.8°(V), 133.8°(D) Tele : 35.7°(H), 20.0°(V), 41.0°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.005 lux @ F1.2 B/W : 0.0002 lux @ F1.2	
S/N Ratio	more than 45dB	
Dynamic Range	120dB (True WDR) / ISP+Sensor Spec.	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	-	
Image Stabilizer	Yes (DIS)	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	60fps : 1920 x 1080 / 30fps : 1920 x 1080(WDR)	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Security	SSL Encryption	
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100/1000BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	5.16W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø160mm x 112mm (Ø6.3" x 4.41")	
Weight	0.87 kg (1.92 lb)	



DIMENSIONS

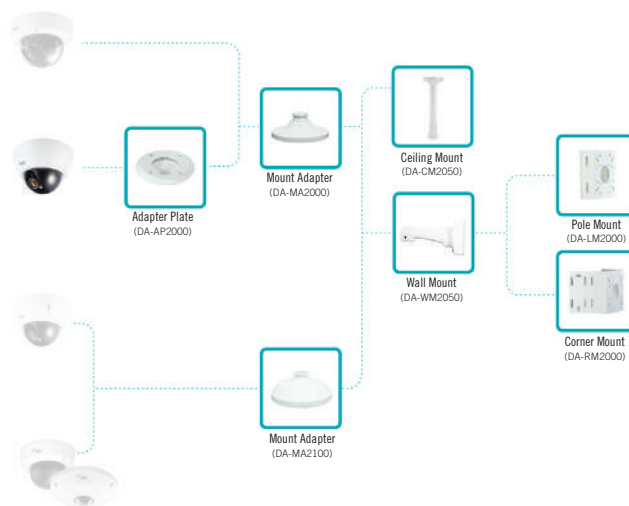
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



3MP Full HD IR Dome Camera

DC-D1323R

- Easy installation with DirectIP NVR
- 3MP (2304x1296) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO																													
Image Sensor	1/3" CMOS																												
Max. Resolution	2304 x 1296																												
Scanning Mode	Progressive Scan																												
Lens type	Vari-focal																												
Focal Length	f=3.3 - 10mm																												
Aperture	F1.3 - 2.5																												
Iris Control	DC Auto Iris																												
Angular Field of View	Wide : 89.6°(H), 47.9°(V), 105.6°(D) Tele : 30.6°(H), 17.2°(V), 35.1°(D)																												
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°																												
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)																												
S/N Ratio	39dB																												
Dynamic Range	69.5dB																												
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)																												
Day & Night	IR cut filter with auto switch																												
IR Distance (LEDs)	20m (18ea)																												
Image Setting	Configurable Exposure, White Balance, Sharpness																												
Digital Noise Reduction	Configurable 2DNR																												
Backlight Compensation	On / Off / HSBL																												
Image Stabilizer	-																												
Privacy Masking	16 Zones																												
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone																												
Video Out	1 Terminal Block																												
NETWORK																													
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ENVIRONMENTAL																													
Vandal-proof Casing	Yes																												
Out-door Ready	IP66, Heater																												
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)																												
Operating Humidity	0% ~ 90%																												
ELECTRICAL																													
Power Source	12VDC, PoE(IEEE 802.3af class 2)																												
Power Consumption	5.6W																												
Approvals	FCC, CE(50130-4), KC																												
MECHANICAL																													
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")																												
Weight	0.51 kg (1.13 lb)																												



DIMENSIONS

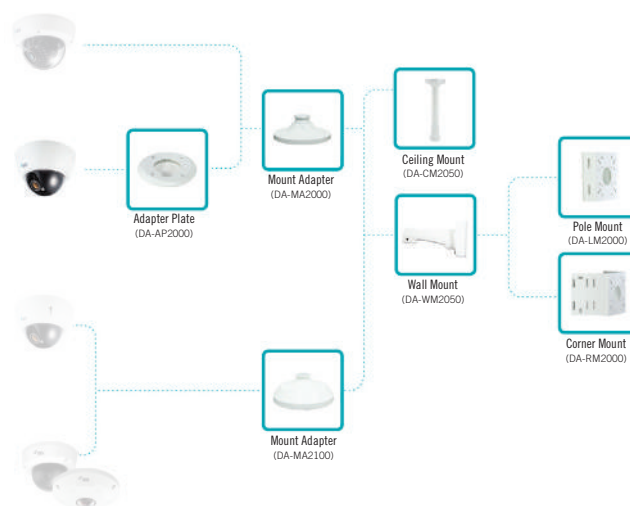
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



3MP Full HD Vandal-Resistant IR Dome Camera

DC-D1323WHR

- Easy installation with DirectIP NVR
- 3MP (2304x1296) resolution
- Vari-focal lens(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO													
Image Sensor	1/3" CMOS												
Max. Resolution	2304 x 1296												
Scanning Mode	Progressive Scan												
Lens type	Vari-focal												
Focal Length	f=3.3 - 10mm												
Aperture	F1.3 - 2.5												
Iris Control	DC Auto Iris												
Angular Field of View	Wide : 89.6°(H), 47.9°(V), 105.6°(D) Tele : 30.6°(H), 17.2°(V), 35.1°(D)												
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°												
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)												
S/N Ratio	39dB												
Dynamic Range	69.5dB												
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)												
Day & Night	IR cut filter with auto switch												
IR Distance (LEDs)	20m (18ea)												
Image Setting	Configurable Exposure, White Balance, Sharpness												
Digital Noise Reduction	Configurable 2DNR												
Backlight Compensation	On / Off / HSBLC												
Image Stabilizer	-												
Privacy Masking	16 Zones												
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone												
Video Out	1 Terminal Block												
NETWORK													
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Two-way audio	Yes												
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Multi-Video Streaming	Quadruple streaming												
Network Protocols	Direct IP Protocol												
Security	SSL Encryption												
Remote Access Client	DirectIP™ NVR connection												
Ethernet	RJ45(10/100BASE-T)												
Edge Storage	micro SD/SDHC												
ALARM & EVENT													
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone												
Event Buffering (Pre & Post)	yes (up to 60MB)												
Event Notification	Remote S/W, Email (with Image)												
Audio In/ Out	Line-in 1ea / Line-out 1ea												
Alarm In/ Out	Input 1ea / Output 1ea												
ENVIRONMENTAL													
Vandal-proof Casing	Yes												
Out-door Ready	IP66, Heater												
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)												
Operating Humidity	0% ~ 90%												
ELECTRICAL													
Power Source	12VDC, PoE(IEEE 802.3af class 2)												
Power Consumption	19.2W (Heater on DC 12V input)												
Approvals	FCC, CE(50130-4), KC												
MECHANICAL													
Dimensions	Ø160mm x 122mm (Ø6.3" x 4.81")												
Weight	0.87 kg (1.92 lb)												

DIMENSIONS

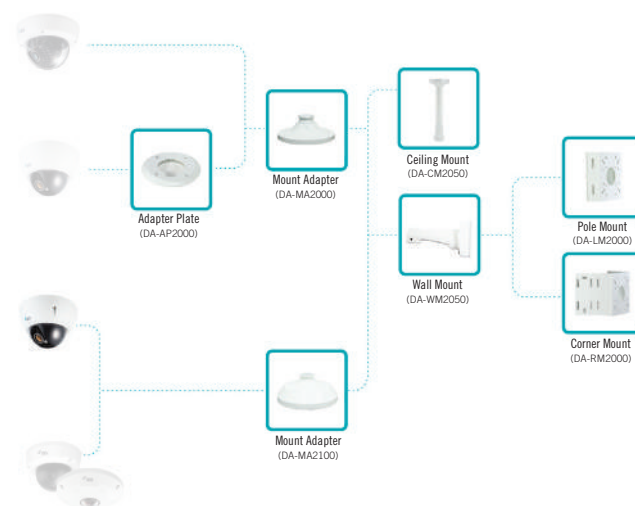
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Dome Camera

DC-D2233

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO																													
Image Sensor	1/2.8" CMOS																												
Max. Resolution	1920 x 1080																												
Scanning Mode	Progressive Scan																												
Lens type	Motorized Vari-focal																												
Focal Length	f=3.3 - 10mm																												
Aperture	F1.3 - 2.5																												
Iris Control	DC Auto Iris																												
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)																												
Pan/Tilt Range	Pan: -165° ~ 165°, Tilt: 7° ~ 90°, Rotate: -178° ~ 178°																												
Min. Illumination	COLOR : 0.3 lux @ F1.3 B/W : 0.002 lux @ F1.3																												
S/N Ratio	31.2dB																												
Dynamic Range	74.7dB																												
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)																												
Day & Night	IR cut filter with auto switch																												
IR Distance (LEDs)	-																												
Image Setting	Configurable Exposure, White Balance, Sharpness																												
Digital Noise Reduction	Configurable 2DNR																												
Backlight Compensation	On / Off / HSBLC																												
Image Stabilizer	-																												
Privacy Masking	16 Zones																												
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone																												
Video Out	1 BNC																												
NETWORK																													
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Operating Humidity	0% ~ 90%																												
ELECTRICAL																													
Power Source	12VDC, PoE(IEEE 802.3af class 2)																												
Power Consumption	3.5W																												
Approvals	FCC, CE(50130-4), KC																												
MECHANICAL																													
Dimensions	Ø130mm x 101.8mm (Ø5.12" x 4.01")																												
Weight	0.43 Kg (0.95 lb)																												

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Dome Camera

DC-D2233R

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Motorized Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)	
Pan/Tilt Range	Pan: -165° ~ 165°, Tilt: 7° ~ 90°, Rotate: -178° ~ 178°	
Min. Illumination	COLOR : 0.3 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (28ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø130mm x 101.8mm (Ø5.12" x 4.01")	
Weight	0.43 Kg (0.95 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



DA-WM2150

ACCESSORIES CONFIGURATION TREE



Wall Mount (DA-WM2150)

Full HD Vandal-Resistant Camera

DC-D2233W

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Motorized Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)	
Pan/Tilt Range	Pan: -165° ~ 165°, Tilt: 7° ~ 90°, Rotate: -178° ~ 178°	
Min. Illumination	COLOR : 0.3 lux @ F1.3 B/W : 0.002 lux @ F1.3	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	Triple streaming
Two-way audio	Yes	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTp, SMTP, FEN, mDNS, uPNP
IP Camera Protocol	DirectIP	Multi-User Authority, IEEE 802.1x
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	IP Filtering, HTTPS, SSL Encryption
Multi-Video Streaming	Quadruple streaming	IDIS Web, IDIS Mobile, IDIS Solution Suite
Network Protocols	Direct IP Protocol	
Security	SSL Encryption	
Remote Access Client	DirectIP™ NVR connection	
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	3.5W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø150.5mm x 98.8mm (Ø5.93" x 3.89")	
Weight	0.98 Kg (2.17 lb)	

DIMENSIONS

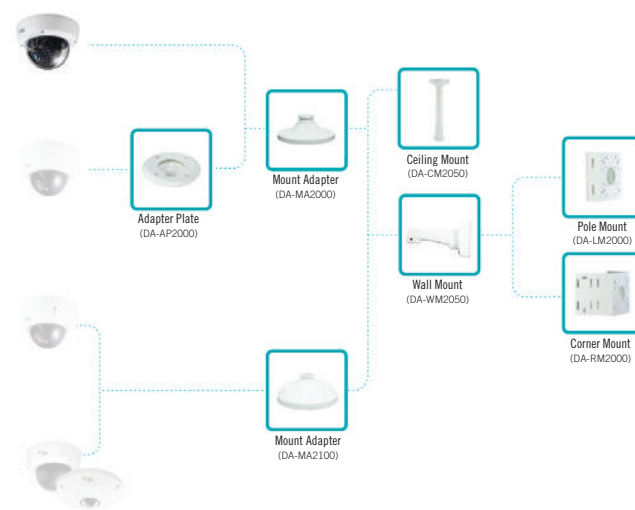
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Vandal-Resistant IR Camera

DC-D2233WR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO																													
Image Sensor	1/2.8" CMOS																												
Max. Resolution	1920 x 1080																												
Scanning Mode	Progressive Scan																												
Lens type	Motorized Vari-focal																												
Focal Length	f=3.3 - 10mm																												
Aperture	F1.3 - 2.5																												
Iris Control	DC Auto Iris																												
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)																												
Pan/Tilt Range	Pan: -165° ~ 165°, Tilt: 7° ~ 90°, Rotate: -178° ~ 178°																												
Min. Illumination	COLOR : 0.3 lux @ F1.3 B/W : 0 lux (IR LED ON)																												
S/N Ratio	31.2dB																												
Dynamic Range	74.7dB																												
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)																												
Day & Night	IR cut filter with auto switch																												
IR Distance (LEDs)	20m (28ea)																												
Image Setting	Configurable Exposure, White Balance, Sharpness																												
Digital Noise Reduction	Configurable 2DNR																												
Backlight Compensation	On / Off / HSBLC																												
Image Stabilizer	-																												
Privacy Masking	16 Zones																												
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone																												
Video Out	1 BNC																												
NETWORK																													
	<table border="1"> <thead> <tr> <th>DirectIP Mode</th> <th>Compatibility Mode</th> </tr> </thead> <tbody> <tr><td>Video Compression</td><td>H.264(MP), M-JPEG</td></tr> <tr><td>Bitrate Control</td><td>H.264 - CBR / VBR</td></tr> <tr><td>Max. Frame Rate</td><td>30fps : 1920 x 1080</td></tr> <tr><td>Audio Compression</td><td>G.726, G.711</td></tr> <tr><td>Two-way audio</td><td>Yes</td></tr> <tr><td>IP Camera Protocol</td><td>DirectIP</td></tr> <tr><td>Supported Resolution</td><td>1920x1080, 1280x720, 704x480, 640x360, 352x240</td></tr> <tr><td>Multi-Video Streaming</td><td>Triple streaming</td></tr> <tr><td>Network Protocols</td><td>Direct IP Protocol</td></tr> <tr><td>Security</td><td>SSL Encryption</td></tr> <tr><td>Remote Access Client</td><td>DirectIP™ NVR connection</td></tr> <tr><td>Ethernet</td><td>RJ45(10/100BASE-T)</td></tr> <tr><td>Edge Storage</td><td>micro SD/SDHC</td></tr> </tbody> </table>	DirectIP Mode	Compatibility Mode	Video Compression	H.264(MP), M-JPEG	Bitrate Control	H.264 - CBR / VBR	Max. Frame Rate	30fps : 1920 x 1080	Audio Compression	G.726, G.711	Two-way audio	Yes	IP Camera Protocol	DirectIP	Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	Multi-Video Streaming	Triple streaming	Network Protocols	Direct IP Protocol	Security	SSL Encryption	Remote Access Client	DirectIP™ NVR connection	Ethernet	RJ45(10/100BASE-T)	Edge Storage	micro SD/SDHC
DirectIP Mode	Compatibility Mode																												
Video Compression	H.264(MP), M-JPEG																												
Bitrate Control	H.264 - CBR / VBR																												
Max. Frame Rate	30fps : 1920 x 1080																												
Audio Compression	G.726, G.711																												
Two-way audio	Yes																												
IP Camera Protocol	DirectIP																												
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Multi-Video Streaming	Triple streaming																												
Network Protocols	Direct IP Protocol																												
Security	SSL Encryption																												
Remote Access Client	DirectIP™ NVR connection																												
Ethernet	RJ45(10/100BASE-T)																												
Edge Storage	micro SD/SDHC																												
IP Camera Protocol	DirectIP																												
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Multi-Video Streaming	Triple streaming																												
Network Protocols	Direct IP Protocol																												
Security	SSL Encryption																												
Remote Access Client	DirectIP™ NVR connection																												
Ethernet	RJ45(10/100BASE-T)																												
Edge Storage	micro SD/SDHC																												
ALARM & EVENT																													
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone																												
Event Buffering (Pre & Post)	yes (up to 60MB)																												
Event Notification	Remote S/W, Email (with Image)																												
Audio In/ Out	Line-in 1ea / Line-out 1ea																												
Alarm In/ Out	Input 1ea / Output 1ea																												
ENVIRONMENTAL																													
Vandal-proof Casing	Yes																												
Out-door Ready	IP66																												
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)																												
Operating Humidity	0% ~ 90%																												
ELECTRICAL																													
Power Source	12VDC, PoE(IEEE 802.3af class 3)																												
Power Consumption	4.8W																												
Approvals	FCC, CE(50130-4), KC																												
MECHANICAL																													
Dimensions	Ø150.5mm x 98.8mm (Ø5.93" x 3.89")																												
Weight	0.98 Kg (2.17 lb)																												



DIMENSIONS

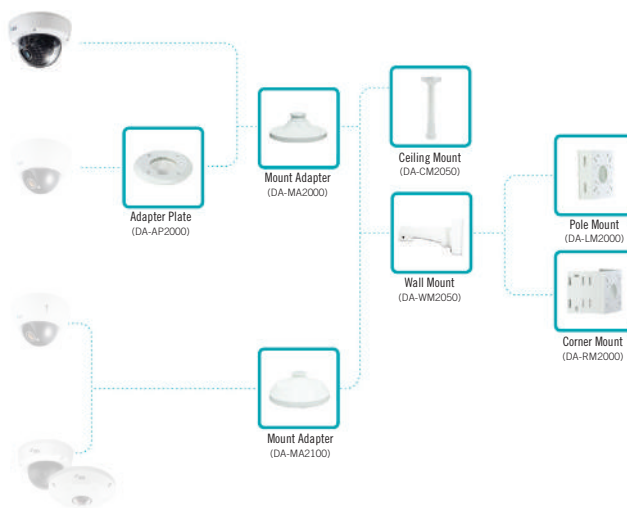
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Valdal-Resistant IR Camera

DC-D2233WHR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Motorized Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)	
Pan/Tilt Range	Pan: -165° ~ 165°, Tilt: 7° ~ 90°, Rotate: -178° ~ 178°	
Min. Illumination	COLOR : 0.3 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (28ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	14.4W (Heater on DC 12V input)	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø150.5mm x 98.8mm (Ø5.93" x 3.89")	
Weight	0.98 Kg (2.17 lb)	



DIMENSIONS

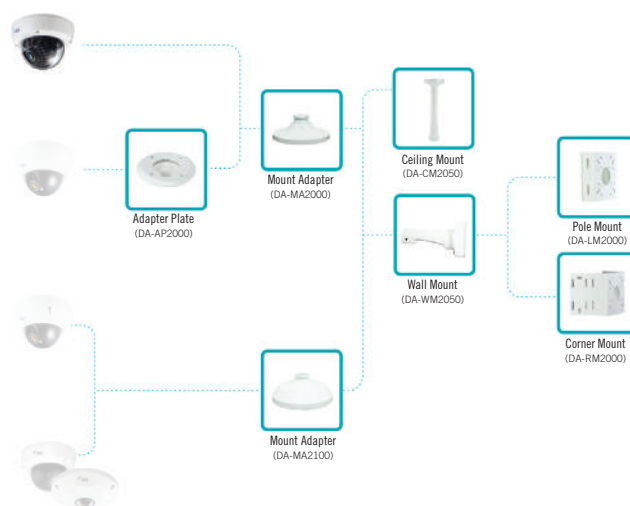
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD WDR Valdal-Resistant IR Camera

DC-D2233WHX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- True WDR
- DIS (Digital Image Stabilizer)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



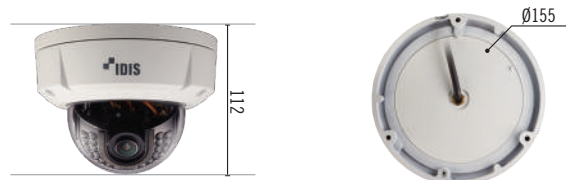
SPECIFICATIONS

VIDEO																																		
Image Sensor	1/2.8" CMOS																																	
Max. Resolution	1920 x 1080																																	
Scanning Mode	Progressive Scan																																	
Lens type	Motorized Vari-focal																																	
Focal Length	f=3.3 - 10mm																																	
Aperture	F=1.3 - 2.5																																	
Iris Control	DC Auto Iris																																	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)																																	
Pan/Tilt Range	Pan: -176° ~ 176°, Tilt: 0° ~ 66°, Rotate: -90° ~ 90°																																	
Min. Illumination	COLOR : 0.007 lux@F1.3 B/W : 0 lux (IR LED ON)																																	
S/N Ratio	more than 45dB																																	
Dynamic Range	120dB (True WDR) / ISP+Sensor Spec.																																	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1 ~ 1/5, 1/7.5, 1/15)																																	
Day & Night	IR cut filter with auto switch																																	
IR Distance (LEDs)	20m (28ea)																																	
Image Setting	Configurable Exposure, White Balance, Sharpness																																	
Digital Noise Reduction	Configurable 2DNR/3DNR																																	
Backlight Compensation	-																																	
Image Stabilizer	Yes (DIS)																																	
Privacy Masking	16 Zones																																	
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm																																	
Video Out	1 BNC(Accessory)																																	
NETWORK																																		
	<table border="1"> <thead> <tr> <th>DirectIP Mode</th> <th>Compatibility Mode</th> </tr> </thead> <tbody> <tr> <td>Video Compression</td> <td>H.264(MP), M-JPEG</td> </tr> <tr> <td>Bitrate Control</td> <td>H.264 - VBR</td> </tr> <tr> <td>Max. Frame Rate</td> <td>60fps : 1920 x 1080 / 30fps : 1920 x 1080(WDR)</td> </tr> <tr> <td>Audio Compression</td> <td>G.726, G.711</td> </tr> <tr> <td>Two-way audio</td> <td>Yes</td> </tr> <tr> <td>IP Camera Protocol</td> <td>DirectIP</td> </tr> <tr> <td rowspan="2">Supported Resolution</td> <td>1920x1080, 1280x720, 704x480,</td> </tr> <tr> <td>640x360, 352x240</td> </tr> <tr> <td>Multi-Video Streaming</td> <td>Triple streaming</td> </tr> <tr> <td rowspan="2">Network Protocols</td> <td>Direct IP Protocol</td> </tr> <tr> <td>RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP</td> </tr> <tr> <td rowspan="2">Security</td> <td>SSL Encryption</td> </tr> <tr> <td>Multi-User Authority, IEEE 802.1x</td> </tr> <tr> <td>Remote Access Client</td> <td>DirectIP™ NVR connection</td> </tr> <tr> <td>Ethernet</td> <td>RJ45(10/100/1000BASE-T)</td> </tr> <tr> <td>Edge Storage</td> <td>micro SD/SDHC</td> </tr> <tr> <td>IP Filtering, HTTPS, SSL Encryption</td> <td>IDIS Web, IDIS Mobile, IDIS Solution Suite</td> </tr> </tbody> </table>	DirectIP Mode	Compatibility Mode	Video Compression	H.264(MP), M-JPEG	Bitrate Control	H.264 - VBR	Max. Frame Rate	60fps : 1920 x 1080 / 30fps : 1920 x 1080(WDR)	Audio Compression	G.726, G.711	Two-way audio	Yes	IP Camera Protocol	DirectIP	Supported Resolution	1920x1080, 1280x720, 704x480,	640x360, 352x240	Multi-Video Streaming	Triple streaming	Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP	Security	SSL Encryption	Multi-User Authority, IEEE 802.1x	Remote Access Client	DirectIP™ NVR connection	Ethernet	RJ45(10/100/1000BASE-T)	Edge Storage	micro SD/SDHC	IP Filtering, HTTPS, SSL Encryption	IDIS Web, IDIS Mobile, IDIS Solution Suite
DirectIP Mode	Compatibility Mode																																	
Video Compression	H.264(MP), M-JPEG																																	
Bitrate Control	H.264 - VBR																																	
Max. Frame Rate	60fps : 1920 x 1080 / 30fps : 1920 x 1080(WDR)																																	
Audio Compression	G.726, G.711																																	
Two-way audio	Yes																																	
IP Camera Protocol	DirectIP																																	
Supported Resolution	1920x1080, 1280x720, 704x480,																																	
	640x360, 352x240																																	
Multi-Video Streaming	Triple streaming																																	
Network Protocols	Direct IP Protocol																																	
	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP																																	
Security	SSL Encryption																																	
	Multi-User Authority, IEEE 802.1x																																	
Remote Access Client	DirectIP™ NVR connection																																	
Ethernet	RJ45(10/100/1000BASE-T)																																	
Edge Storage	micro SD/SDHC																																	
IP Filtering, HTTPS, SSL Encryption	IDIS Web, IDIS Mobile, IDIS Solution Suite																																	
ALARM & EVENT																																		
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering																																	
Event Buffering (Pre & Post)	yes (up to 60MB)																																	
Event Notification	Remote S/W, Email (with Image)																																	
Audio In/ Out	Line-in 1ea / Line-out 1ea																																	
Alarm In/ Out	Input 1ea / Output 1ea																																	
ENVIRONMENTAL																																		
Vandal-proof Casing	Yes																																	
Out-door Ready	IP66, Heater																																	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F)																																	
	*Starting up at above -20°C (-4°F)																																	
Operating Humidity	0% ~ 90%																																	
ELECTRICAL																																		
Power Source	12VDC, PoE(IEEE 802.3af class 3)																																	
Power Consumption	19.2W (Heater On DC 12V)																																	
Approvals	FCC, CE(50130-4), KC																																	
MECHANICAL																																		
Dimensions	Ø155mm x 111.5mm (Ø6.11" x 4.39")																																	
Weight	0.9 kg (1.98 lb)																																	



DIMENSIONS

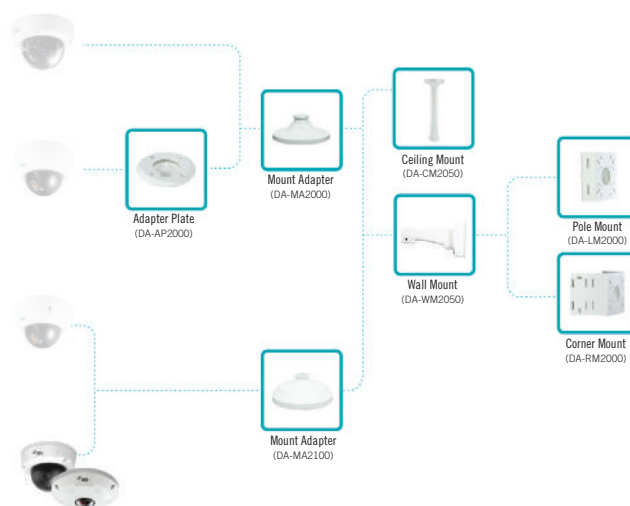
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD Flush Dome Camera

DC-D1223F

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal Lens (f= 3.3 ~ 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 70°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0.002 lux @ F1.3	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS
Bitrate Control	H.264 - CBR / VBR	ONVIF Profile S
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	Triple streaming
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTp, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø155mm x 127mm (Ø6.11" x 5.01")	
Weight	0.51 kg (1.13 lb)	

DIMENSIONS

(Unit - mm)



Full HD Flush IR Dome Camera

DC-D1223FR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Vari-focal lens (f=3.3 - 10mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 2), 12V DC
- Day&night (ICR)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 108.2°(H), 56.2°(V), 129.3°(D) Tele : 35.4°(H), 19.8°(V), 40.5°(D)	
Pan/Tilt Range	Pan: -167° ~ 167°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.1 lux @ F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	20m (18ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 2)	
Power Consumption	4.8W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø150mm x 137mm (Ø6.11" x 5.4")	
Weight	0.51 kg (1.13 lb)	

DIMENSIONS



Full HD Flat Dome Camera

DC-F1111A

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Fixed-focal lens(f=2.8mm)
- PoE(IEEE 802.3af class 1)
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/4" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=2.8mm	
Aperture	F=2.2	
Iris Control	Fixed Iris	
Angular Field of View	78.5°(H), 44.0°(V), 90.3°(D)	
Pan/Tilt Range	Pan: -60° ~ 60°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.9 lux @ F2.2 B/W : 0.6 lux @ F2.2	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5,1/7.5,1/15)	
Day & Night	Electrical	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x 360, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	PoE(IEEE 802.3af class 1)	
Power Consumption	3.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	95mm x 56.21mm x 120mm (3.75" x 2.22" x 4.73")	
Weight	0.25 kg (0.56 lb)	

DIMENSIONS

(Unit - mm)



Full HD Flat Dome Camera

DC-F1211

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Fixed-focal lens(f=4.0mm)
- PoE(IEEE 802.3af class 1)
- Supports ONVIF



SPECIFICATIONS

VIDEO																													
Image Sensor	1/2.7" CMOS																												
Max. Resolution	1920 x 1080																												
Scanning Mode	Progressive Scan																												
Lens type	Fixed-focal																												
Focal Length	f=4.0mm																												
Aperture	F=2.0																												
Iris Control	Fixed Iris																												
Angular Field of View	86°(H), 47°(V), 101°(D)																												
Pan/Tilt Range	Pan: -60° ~ 60°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°																												
Min. Illumination	COLOR : 0.4 lux @ F2.0 B/W : 0.2 lux @ F2.0																												
S/N Ratio	more than 45dB																												
Dynamic Range	more than 70dB																												
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1-1/5,1/7.5,1/15)																												
Day & Night	Electrical																												
IR Distance (LEDs)	-																												
Image Setting	Configurable Exposure, White Balance, Sharpness																												
Digital Noise Reduction	Configurable 2DNR																												
Backlight Compensation	On / Off / HSBLC																												
Image Stabilizer	-																												
Privacy Masking	16 Zones																												
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone																												
Video Out	1 BNC																												
NETWORK																													
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DirectIP Mode	Compatibility Mode																												
Video Compression	H.264(MP), M-JPEG																												
Bitrate Control	H.264 - CBR / VBR																												
Max. Frame Rate	30fps : 1920 x 1080																												
Audio Compression	-																												
Two-way audio	-																												
IP Camera Protocol	DirectIP IDIS ONVIF Profile S																												
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240 1920x1080, 1280x720, 704x480, 352x240																												
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Edge Storage	-																												
ALARM & EVENT																													
Trigger Event	Motion Detection, Tampering, TripZone																												
Event Buffering (Pre & Post)	yes (up to 60MB)																												
Event Notification	Remote S/W, Email (with Image)																												
Audio In/ Out	-																												
Alarm In/ Out	-																												
ENVIRONMENTAL																													
Vandal-proof Casing	-																												
Out-door Ready	-																												
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)																												
Operating Humidity	0% ~ 90%																												
ELECTRICAL																													
Power Source	PoE(IEEE 802.3af class 1)																												
Power Consumption	3.6W																												
Approvals	FCC, CE(50130-4), KC																												
MECHANICAL																													
Dimensions	95mm x 56.21mm x 120mm (3.75" x 2.22" x 4.73")																												
Weight	0.25 kg (0.56 lb)																												

DIMENSIONS

(Unit - mm)



- NVR
- BOX
- DOME
- FISHEYE
- PTZ
- BULLET
- ZOOM
- HD-TVI DVR
- HD-TVI CAMERA
- MONITOR
- NETWORK ACCESSORIES
- CAMERA ACCESSORIES
- SOFTWARE
- SOLUTION GUIDE
- APPLICATIONS

Full HD Flat Dome Camera

DC-F1211A

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Fixed-focal lens (f=2.8mm)
- PoE (IEEE 802.3af class 1)
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.7" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=2.8mm	
Aperture	F=2.2	
Iris Control	Fixed Iris	
Angular Field of View	118.7°(H), 66.4°(V), 137.0°(D)	
Pan/Tilt Range	Pan: -60° ~ 60°, Tilt: 0° ~ 80°, Rotate: -176° ~ 176°	
Min. Illumination	COLOR : 0.5 lux @ F2.2 B/W : 0.3 lux @ F2.2	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	Electrical	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	PoE(IEEE 802.3af class 1)	
Power Consumption	3.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	95mm x 56.21mm x 120mm (3.75" x 2.22" x 4.73")	
Weight	0.25 kg (0.56 lb)	

DIMENSIONS

(Unit - mm)



5MP Fisheye Camera

DC-Y1513

- Easy installation with DirectIP NVR
- 5MP (2560 x 2048) resolution
- Fixed-focal lens (f=1.45 mm)
- micro SD/SDHC/SDXC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- Various viewing composition, 6 de-warping view mode
- Supports ONVIF

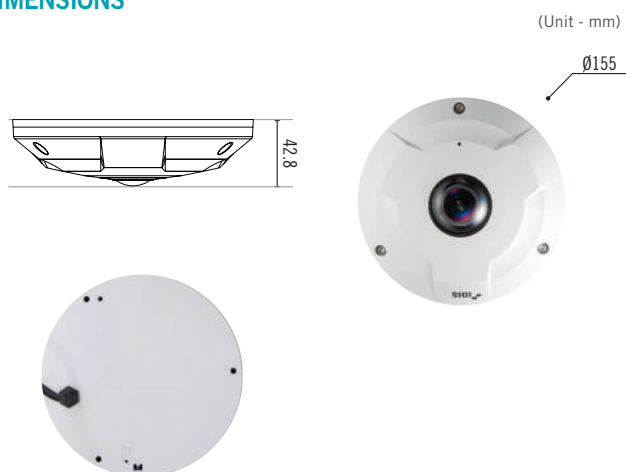


SPECIFICATIONS

VIDEO	
Image Sensor	1/1.8" CMOS
Max. Resolution	2560 x 2048
Scanning Mode	Progressive Scan
Lens type	Fixed-focal
Focal Length	f=1.45mm
Aperture	F2.2
Iris Control	Fixed Iris
Angular Field of View	H: 180° / V: 180° / D: 180°
Pan/Tilt Range	-
Min. Illumination	Color : 0.8 lux @ F2.2 B/W : 0.003 lux @ F2.2
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB (90dB@digital WDR)
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	-
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	On / Off / HSBLC
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Viewing Composition	10, 1P, 1P2R, 2P, 4R, 107R
Video Out	-
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MPEG-4 Part 10/AVC), M-JPEG
Bitrate Control	H.264 - VBR
Max. Frame Rate	30fps : 2560 x 2048
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS ONVIF Profile S
Supported Resolution	2560x2048, 1536x1536, 640x512, 512x512 2560x2048, 1280x1024, 640x512, 1024x1024, 1024 x 512, 512x512
Multi-Video Streaming	Quadruple streaming hextuple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100/1000BASE-T)
Edge Storage	micro SD/SDHC/SDXC
ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 100MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	Line-in 1ea / Line-out 1ea
Alarm In/ Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal Resistance	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 3)
Power Consumption	6W
Approvals	FCC, CE(50130-4)
MECHANICAL	
Dimensions	Ø155.0mm x 43.0mm (Ø6.10" x 1.69")
Weight	0.58 kg (1.28 lb)



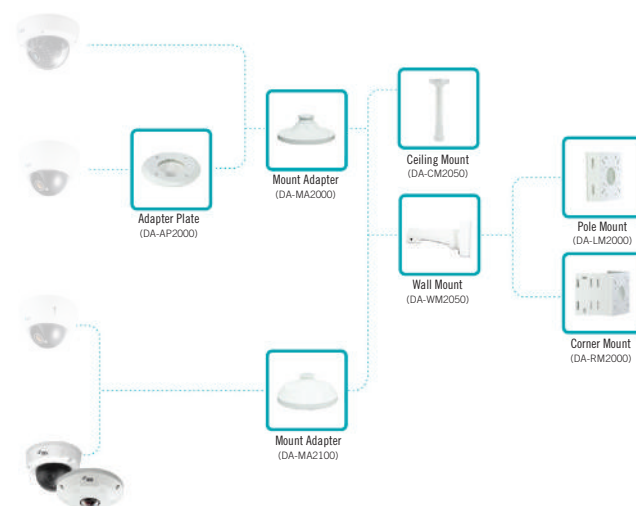
DIMENSIONS



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



5MP Vandal-Resistant Fisheye Camera

DC-Y1513W

- Easy installation with DirectIP NVR
- 5MP (2560 x 2048) resolution
- Fixed-focal lens(f=1.45 mm)
- micro SD/SDHC/SDXC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- Various viewing composition, 6 de-warping view mode
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/1.8" CMOS	
Max. Resolution	2560 x 2048	
Scanning Mode	Progressive Scan	
Lens type	Fixed-focal	
Focal Length	f=1.45mm	
Aperture	F2.2	
Iris Control	Fixed Iris	
Angular Field of View	H: 180° / V: 180° / D: 180°	
Pan/Tilt Range	-	
Min. Illumination	Color : 0.8 lux @ F2.2 B/W : 0.003 lux @ F2.2	
S/N Ratio	more than 45dB	
Dynamic Range	more than 70dB (90dB@digital WDR)	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	On / Off / HSBLC	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Viewing Composition	10, 1P, 1P2R, 2P, 4R, 107R	
Video Out	-	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MPEG-4 Part 10/AVC), M-JPEG	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	30fps : 2560 x 2048	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	2560x2048, 1536x1536, 640x512, 512x512	2560x2048, 1280x1024, 640x512, 2048x2048, 2048 x 1024, 1536x1536, 1024x1024, 1024 x 512, 512x512
Multi-Video Streaming	Quadruple streaming	hexuple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100/1000BASE-T)	
Edge Storage	micro SD/SDHC/SDXC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 100MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	6W	
Approvals	FCC, CE(50130-4)	
MECHANICAL		
Dimensions	Ø155.0mm x 43.0mm (Ø6.10" x 1.69")	
Weight	0.59 kg (1.31 lb)	

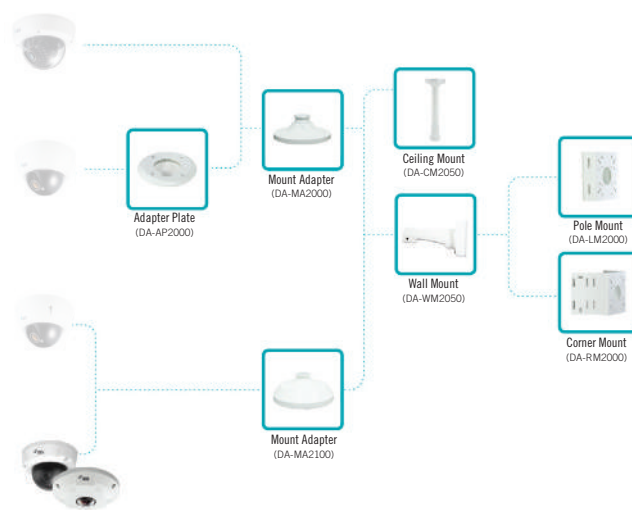
DIMENSIONS



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD 18x PTZ Camera

DC-S1163WH

- Easy installation with DirectIP NVR
- HD (720p) resolution
- AF optical zoom lens(f=4.7 - 84.6mm)
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 4), 12V DC, 24V AC
- Day&night (ICR)
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1280 x 720	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.7 - 84.6mm	
Aperture	F1.6 - 2.8	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 61.2°(H), 35.6°(V), 68.9°(D) Tele : 3.6°(H), 2.1°(V), 4.1°(D)	
Min. Illumination	COLOR : 0.05 lux @ F1.6 B/W : 0.003 lux @ F1.6	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	0.02~180°/sec (preset 420°/sec)	
Tilt Range	200° (-10~190°)	
Tilt Speed	0.02~180°/sec (preset 420°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps - 1280 x 720	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, 24VAC, PoE(IEEE 802.3at class 4)	
Power Consumption	DC12V : Max 35.6W / AC24V : Max 27.1W / PoE : Max 24.3W (Heater on)	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø200mm x 199.5mm (Ø7.88" x 7.86")	
Weight	2.45 kg (5.41 lb)	



DIMENSIONS

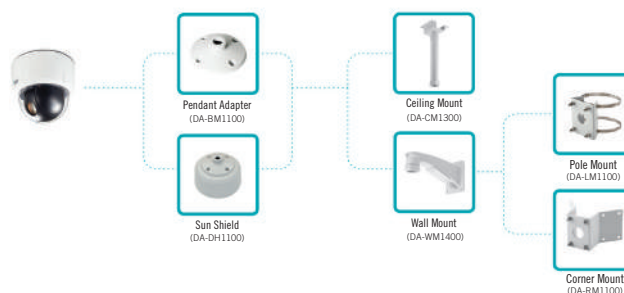
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD 18x PTZ Camera

DC-S1263WH

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens(f=4.7 - 84.6mm), 18x zoom
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 4), 12V DC, 24V AC
- Day&night (ICR)
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.7 - 84.6mm	
Aperture	F1.6 - 2.8	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 61.2°(H), 35.6°(V), 68.9°(D) Tele : 3.6°(H), 2.1°(V), 4.1°(D)	
Min. Illumination	COLOR : 0.05 lux @ F1.6 B/W : 0.003 lux @ F1.6	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	0.02~180°/sec (preset 420°/sec)	
Tilt Range	200° (-10~190°)	
Tilt Speed	0.02~180°/sec (preset 420°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote SW, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, 24VAC, PoE(IEEE 802.3at class 4)	
Power Consumption	DC12V : Max 35.6W / AC24V : Max 27.1W / PoE : Max 24.3W (Heater on)	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø200mm x 199.5mm (Ø7.88" x 7.86")	
Weight	2.45 kg (5.41 lb)	



DIMENSIONS

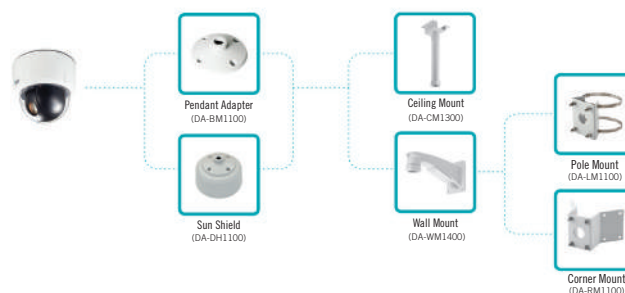
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD 30x PTZ Camera

DC-S1283WHX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens(f=4.3 - 129.0mm), 30x zoom
- Day&Night (ICR)
- True WDR (120dB)
- Two-way audio
- DIS (Digital Image Stabilizer)
- Alarm in / out
- micro SD/SDHC Edge Storage
- Vandal Proof / IP66 supports
- Built-in heater
- PoE (IEEE 802.3at Class 4), 12V DC



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.3 - 129.0mm	
Aperture	F1.6 - 5.0	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 65.0°(H), 38.5°(V), 72.9°(D) Tele : 2.3°(H), 1.4°(V), 2.6°(D)	
Min. Illumination	Color : 0.01 lux @ F1.6 B/W : 0.0004 lux @ F1.6	
S/N Ratio	more than 45dB	
Dynamic Range	120dB (True WDR)	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	-	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	Yes (DIS)	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	0.02~180°/sec (preset 420°/sec)	
Tilt Range	200° (-10~190°)	
Tilt Speed	0.02~180°/sec (preset 420°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, 24VAC, PoE(IEEE 802.3at class 4)	
Power Consumption	DC12V : Max 27.7W / AC24V : Max 26.5W / PoE : Max 23.7W (Heater on)	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø200mm x 199.5mm (Ø7.88" x 7.86")	
Weight	2.45 kg (5.41 lb)	



DIMENSIONS

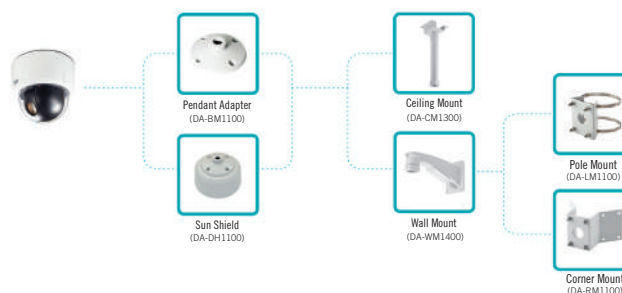
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD 18x Flush PTZ Camera

DC-S1263F

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens(f=4.7 - 84.6mm), 18x zoom
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 3), 12V DC, 24V AC
- Day&night (ICR)
- Indoor enclosure
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.7 - 84.6mm	
Aperture	F1.6 - 2.8	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 61.2°(H), 35.6°(V), 68.9°(D) Tele : 3.6°(H), 2.1°(V), 4.1°(D)	
Min. Illumination	COLOR : 0.05 lux @ F1.6 B/W : 0.003 lux @ F1.6	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	0.02~180°/sec (preset 420°/sec)	
Tilt Range	200° (-10~190°)	
Tilt Speed	0.02~180°/sec (preset 420°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, 24VAC, PoE(IEEE 802.3af class 3)	
Power Consumption	DC12V : Max 10.6W / AC24V : Max 11.1W / PoE : Max 10.6W	
Approvals	FCC, CE(50130-4), KC	
MECHANICAL		
Dimensions	Ø226.5mm x 224.1mm (Ø8.92" x 8.83")	
Weight	2.2 kg (4.86 lb)	



DIMENSIONS

(Unit - mm)



Full HD 30x Flush PTZ Camera

DC-S1283FX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens (f=4.3 - 129.0mm), 30x zoom
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- PoE (IEEE 802.3af class 3), 12V DC, 24V AC
- Day&night (ICR)
- True WDR
- Low light enhancer
- DIS (Digital Image Stabilizer)
- Indoor enclosure
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.3 - 129.0mm	
Aperture	F1.6 - 5.0	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 65.0°(H), 38.5°(V), 72.9°(D) Tele : 2.3°(H), 1.4°(V), 2.6°(D)	
Min. Illumination	Color : 0.01 lux @ F1.6 B/W : 0.0004 lux @ F1.6	
S/N Ratio	more than 45dB	
Dynamic Range	120dB (True WDR)	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	-	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	-	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	Yes (DIS)	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	0.02~180°/sec (preset 420°/sec)	
Tilt Range	200° (-10~190°)	
Tilt Speed	0.02~180°/sec (preset 420°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	-	
Out-door Ready	-	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, 24VAC, PoE(IEEE 802.3af class 3)	
Power Consumption	DC12V : Max 10.6W / AC24V : Max 11.0W / PoE : Max 10.5W	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø226.5mm x 224.1mm (Ø8.92" x 8.83")	
Weight	2.2 kg (4.86 lb)	

DIMENSIONS

(Unit - mm)



- NVR
- BOX
- POE
- FISHEYE
- PTZ
- BULLET
- ZOOM
- HD-TVI DVR
- HD-TVI CAMERA
- MONITOR
- NETWORK ACCESSORIES
- CAMERA ACCESSORIES
- SOFTWARE
- SOLUTION GUIDE
- APPLICATIONS

Full HD 30x IR PTZ Camera

DC-S1283WRX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens(f=4.3 - 129.0mm), 30x zoom
- micro SD/SDHC
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- Day&night (ICR)
- True WDR
- Low light enhancer
- DIS (Digital Image Stabilizer)
- IR LED (Distance : 150m)
- Supports ONVIF

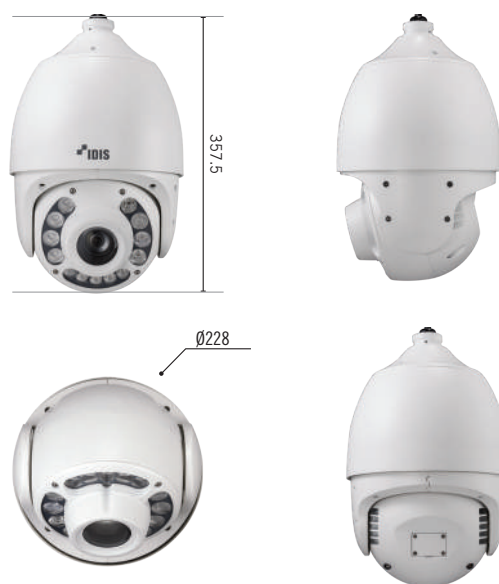


SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	AF Zoom Lens	
Focal Length	f=4.3 - 129.0mm	
Aperture	F1.6 - 5.0	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 65.0°(H), 38.5°(V), 72.9°(D) Tele : 2.3°(H), 1.4°(V), 2.6°(D)	
Min. Illumination	Color : 0.0088 lux @ F1.6 B/W : 0 lux (IR LED ON)	
S/N Ratio	more than 45dB	
Dynamic Range	120dB (True WDR)	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	150m (12ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR/3DNR	
Backlight Compensation	-	
Mirroring / Pivot	Horizontal / Vertical	
Image Stabilizer	Yes (DIS)	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Face Detection, Active Tampering Alarm	
Video Out	1 Terminal Block	
Pan/Tilt/Rotate		
Pan Range	360° (Endless)	
Pan Speed	Pan: 0.02~120°/sec (preset 250°/sec)	
Tilt Range	90° (0~90°)	
Tilt Speed	Tilt: 0.02~120°/sec (preset 250°/sec)	
Preset	256ea	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Video Compression Level (Quality)	Basic, Standard, High, Very High	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	30fps - 1920 x 1080	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	micro SD/SDHC	
ALARM & EVENT		
Trigger Event	Motion Detection, Face Detection, Alarm in, Tampering	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal Resistance	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	24VAC	
Power Consumption	AC24V : Max 58W(Heater on, IR LED ON)	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø 228mm x 357.5mm (Ø8.98" x 14.07")	
Weight	6.1kg (13.44lb)	

DIMENSIONS

(Unit - mm)





DC-S1283WRX

Full HD 30x IR PTZ Camera

Full HD IR Bullet Camera

DC-T1232WR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 30m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Motorized Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)	
Min. Illumination	COLOR : 0.1 lux F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	30m (42ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Mirroring / Pivot	Horizontal / Vertical / Pivot	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	-	
Alarm In/ Out	-	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66	
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	9.24W	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø73.5mm x 290.2mm (Ø2.9" x 11.43")	
Weight	1.17 kg (2.58 lb)	

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Bullet Camera with Heater

DC-T1233WHR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- Built-in heater
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 30m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO		
Image Sensor	1/2.8" CMOS	
Max. Resolution	1920 x 1080	
Scanning Mode	Progressive Scan	
Lens type	Motorized Vari-focal	
Focal Length	f=3.3 - 10mm	
Aperture	F1.3 - 2.5	
Iris Control	DC Auto Iris	
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)	
Min. Illumination	COLOR : 0.1 lux F1.3 B/W : 0 lux (IR LED ON)	
S/N Ratio	31.2dB	
Dynamic Range	74.7dB	
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)	
Day & Night	IR cut filter with auto switch	
IR Distance (LEDs)	30m (42ea)	
Image Setting	Configurable Exposure, White Balance, Sharpness	
Digital Noise Reduction	Configurable 2DNR	
Backlight Compensation	On / Off / HSBLC	
Mirroring / Pivot	Horizontal / Vertical / Pivot	
Image Stabilizer	-	
Privacy Masking	16 Zones	
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone	
Video Out	1 BNC	
NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	IDIS ONVIF Profile S
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	1920x1080, 1280x720, 704x480, 352x240
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	
ALARM & EVENT		
Trigger Event	Motion Detection, Audio Detection, Tampering, TripZone	
Event Buffering (Pre & Post)	yes (up to 60MB)	
Event Notification	Remote S/W, Email (with Image)	
Audio In/ Out	Line-in 1ea / Line-out 1ea	
Alarm In/ Out	Input 1ea / Output 1ea	
ENVIRONMENTAL		
Vandal-proof Casing	Yes	
Out-door Ready	IP66, Heater	
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) *Starting up at above -20°C (-4°F)	
Operating Humidity	0% ~ 90%	
ELECTRICAL		
Power Source	12VDC, PoE(IEEE 802.3af class 3)	
Power Consumption	17.4W (DC12V - Heater on)	
Approvals	FCC, CE(50130-4), KC, UL	
MECHANICAL		
Dimensions	Ø73.5mm x 290.2mm (Ø2.9" x 11.43")	
Weight	1.17 kg (2.58 lb)	

DIMENSIONS



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD IR Bullet Camera with PIR

DC-T1234WR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- Alarm out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- IR LED (Distance : 30m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	Motorized Vari-focal
Focal Length	f=3.3 - 10mm
Aperture	F1.3 - 2.5
Iris Control	DC Auto Iris
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)
Min. Illumination	COLOR : 0.1 lux F1.3 B/W : 0 lux (IR LED ON)
S/N Ratio	31.2dB
Dynamic Range	74.7dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	30m (24ea) / White LED (6ea)
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR
Backlight Compensation	On / Off / HSBLC
Mirroring / Pivot	Horizontal / Vertical / Pivot
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 BNC

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Triple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	

ALARM & EVENT	
Trigger Event	Motion Detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	-
Alarm In/ Out	Output 1ea

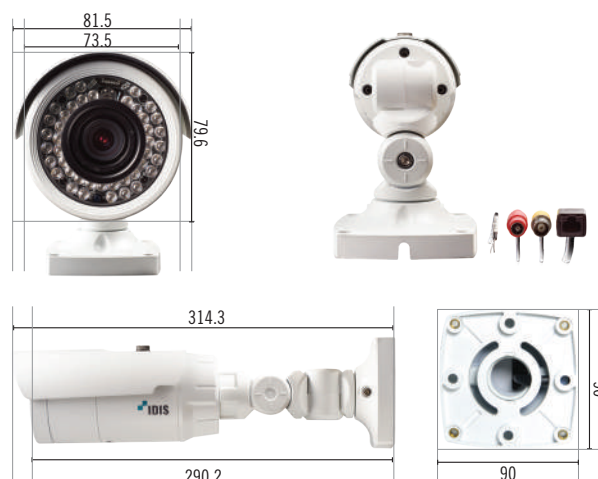
ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 3)
Power Consumption	7.2W
Approvals	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø73.5mm x 290.2mm (Ø2.9" x 11.43")
Weight	1.17 kg (2.58 lb)

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



Full HD WDR IR Bullet Camera

DC-T1233WHX

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Motorized Vari-focal(f=3.3 - 10mm)
- Two-way audio
- Alarm in / out
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 3), 12V DC
- Day&night (ICR)
- True WDR
- DIS (Digital Image Stabilizer)
- IR LED (Distance : 20m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	Motorized Vari-focal
Focal Length	f=3.3 - 10mm
Aperture	F=1.3 - 2.5
Iris Control	DC Auto Iris
Angular Field of View	Wide : 99.8°(H), 52.2°(V), 118.2°(D) Tele : 33.5°(H), 18.6°(V), 38.3°(D)
Min. Illumination	COLOR : 0.002 Lux [TBD] B/W : 0 lux (IR LED ON)
S/N Ratio	more than 45dB
Dynamic Range	120dB (True WDR) / ISP+Sensor Spec.
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	20m (42ea)
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR/3DNR
Backlight Compensation	-
Mirroring / Pivot	Horizontal / Vertical
Image Stabilizer	Yes (DIS)
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Face Detection
Video Out	1 BNC

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - VBR	
Max. Frame Rate	60fps : 1920 x 1080 / 30fps : 1920 x 1080(WDR)	
Audio Compression	G.726, G.711	
Two-way audio	Yes	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100/1000BASE-T)	
Edge Storage	-	

ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Tampering, Face Detection
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	Line-in 1ea / Line-out 1ea
Alarm In/ Out	Input 1ea / Output 1ea

ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-20°C ~ +50°C (-4°F ~ +122°F) *Starting up at above -20°C (-4°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	12VDC, PoE(IEEE 802.3af class 3)
Power Consumption	22.8W (12V - Heater on)
Approvals	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø73.5mm x 307.5mm (Ø2.9" x 12.1")
Weight	1.4 kg (3.09 lb)



DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



HD IR Bullet Camera

DC-E1112WR

- Easy installation with DirectIP NVR
- HD (720p) resolution
- Fixed-focal lens(f=4.0mm)
- Vandal proof / IP66 supports
- PoE(IEEE 802.3af class 2)
- Day&night (ICR)
- PoE(IEEE 802.3af class 2)
- Day&night (ICR)
- PoE(IEEE 802.3af class 2)
- Day&night (ICR)
- IR LED (Distance : 10m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1280 x 720
Scanning Mode	Progressive Scan
Lens type	Fixed-focal
Focal Length	f=4.0mm
Aperture	F=2.0
Iris Control	Fixed Iris
Angular Field of View	90.3°(H), 47.0°(V), 108.4°(D)
Min. Illumination	COLOR : 0.3 lux @ F2.0 B/W : 0 lux (IR LED ON)
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	10m (24ea)
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR
Backlight Compensation	On / Off / HSBC
Mirroring / Pivot	Horizontal / Vertical / Pivot
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 BNC

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1280 x 720	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1280x720, 704x480, 640x360, 352x240	1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	

ALARM & EVENT	
Trigger Event	Motion Detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	-
Alarm In/ Out	-

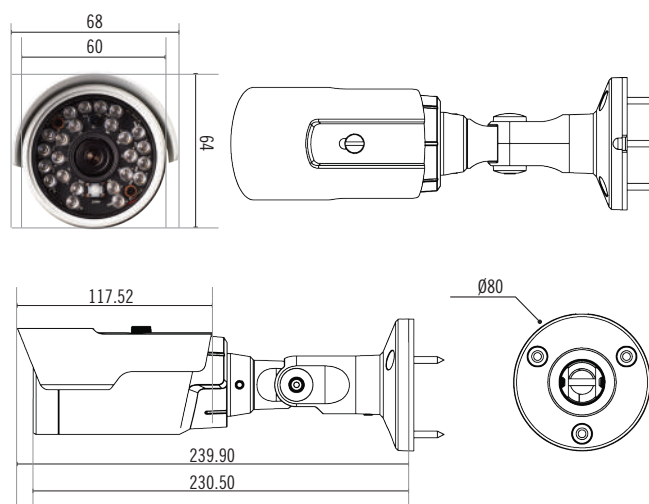
ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø60mm x 230.5mm (Ø2.36" x 9.07")
Weight	0.51 kg (1.13 lb)

DIMENSIONS

(Unit - mm)



Full HD IR Bullet Camera

DC-E1212WR

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- Fixed-focal lens (f=4.0mm)
- Vandal proof / IP66 supports
- PoE (IEEE 802.3af class 2)
- Day&night (ICR)
- IR LED (Distance : 10m)
- 3-axis mechanical design for installation
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.7" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	Fixed-focal
Focal Length	f=4.0mm
Aperture	F=2.0
Iris Control	Fixed Iris
Angular Field of View	90.3°(H), 47.0°(V), 108.4°(D)
Min. Illumination	COLOR : 0.3 lux @ F2.0 B/W : 0 lux (IR LED ON)
S/N Ratio	more than 45dB
Dynamic Range	more than 70dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1~1/5, 1/7.5, 1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	10m (24ea)
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR
Backlight Compensation	On / Off / HSBLC
Mirroring / Pivot	Horizontal / Vertical / Pivot
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 BNC

NETWORK		
	DirectIP Mode	Compatibility Mode
Video Compression	H.264(MP), M-JPEG	
Bitrate Control	H.264 - CBR / VBR	
Max. Frame Rate	30fps : 1920 x 1080	
Audio Compression	-	
Two-way audio	-	
IP Camera Protocol	DirectIP	IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 640x360, 352x240	1920x1080, 1280x720, 704x480, 352x240
Multi-Video Streaming	Quadruple streaming	Quadruple streaming
Network Protocols	Direct IP Protocol	RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption	Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection	IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)	
Edge Storage	-	

ALARM & EVENT	
Trigger Event	Motion Detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	-
Alarm In/ Out	-

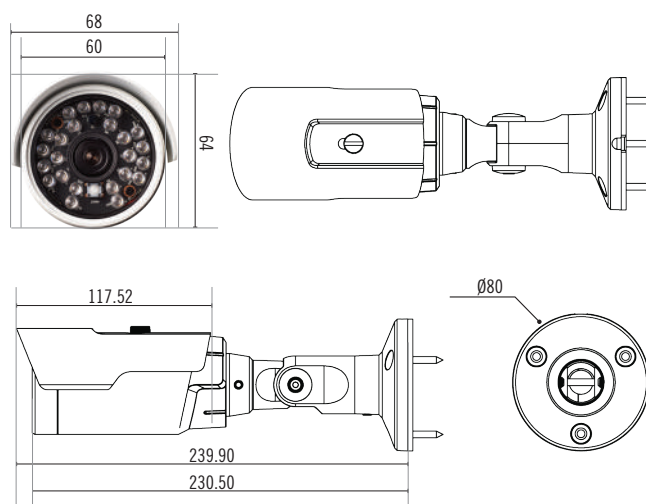
ENVIRONMENTAL	
Vandal-proof Casing	Yes
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%

ELECTRICAL	
Power Source	PoE(IEEE 802.3af class 2)
Power Consumption	4.8W
Approvals	FCC, CE(50130-4), KC

MECHANICAL	
Dimensions	Ø60mm x 230.5mm (Ø2.36" x 9.07")
Weight	0.51 kg (1.13 lb)

DIMENSIONS

(Unit - mm)



HD 18x Zoom Camera

DC-Z1163

- Easy installation with DirectIP NVR
- HD (720p) resolution
- AF optical zoom lens(f=4.7 - 84.6mm), 18x zoom
- SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 0), 12V DC, 24V AC
- Day&night (ICR)
- Supports ONVIF

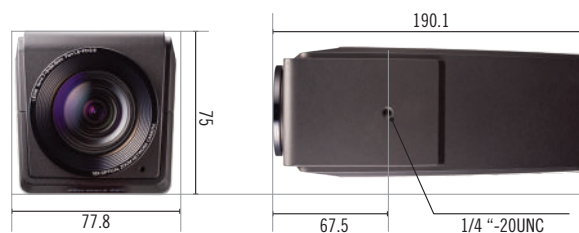


SPECIFICATIONS

VIDEO																															
Image Sensor	1/2.8" CMOS																														
Max. Resolution	1280 x 720																														
Scanning Mode	Progressive Scan																														
Lens type	AF Zoom Lens																														
Focal Length	f=4.7 - 84.6mm																														
Aperture	F1.6 - 2.8																														
Iris Control	DC Auto Iris																														
Angular Field of View	Wide : 61.2°(H), 35.6°(V), 68.9°(D) Tele : 3.6°(H), 2.1°(V), 4.1°(D)																														
Min. Illumination	COLOR : 0.1 lux @ F1.6 B/W : 0.004 lux @ F1.6																														
S/N Ratio	31.2dB																														
Dynamic Range	74.7dB																														
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)																														
Day & Night	IR cut filter with auto switch																														
IR Distance (LEDs)	-																														
Image Setting	Configurable Exposure, White Balance, Sharpness																														
Digital Noise Reduction	Configurable 2DNR																														
Backlight Compensation	On / Off / HSBLC																														
Mirroring / Pivot	Horizontal / Vertical																														
Image Stabilizer	-																														
Privacy Masking	16 Zones																														
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone																														
Video Out	1 RCA																														
NETWORK																															
	<table border="1"> <thead> <tr> <th>DirectIP Mode</th> <th>Compatibility Mode</th> </tr> </thead> <tbody> <tr><td>Video Compression</td><td>H.264(MP), M-JPEG</td></tr> <tr><td>Video Compression Level (Quality)</td><td>Basic, Standard, High, Very High</td></tr> <tr><td>Bitrate Control</td><td>H.264 - CBR / VBR</td></tr> <tr><td>Max. Frame Rate</td><td>30fps : 1280x720</td></tr> <tr><td>Audio Compression</td><td>G.726, G.711</td></tr> <tr><td>Two-way audio</td><td>Yes</td></tr> <tr><td>IP Camera Protocol</td><td>DirectIP IDIS ONVIF Profile S</td></tr> <tr><td>Supported Resolution</td><td>1280x720, 704x480, 640x360, 352x240 1280x720, 704x480, 352x240</td></tr> <tr><td>Multi-Video Streaming</td><td>Quadruple streaminging Triple streaminging</td></tr> <tr><td>Network Protocols</td><td>Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP</td></tr> <tr><td>Security</td><td>SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption</td></tr> <tr><td>Remote Access Client</td><td>DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite</td></tr> <tr><td>Ethernet</td><td>RJ45(10/100BASE-T)</td></tr> <tr><td>Edge Storage</td><td>SD (SDHC)</td></tr> </tbody> </table>	DirectIP Mode	Compatibility Mode	Video Compression	H.264(MP), M-JPEG	Video Compression Level (Quality)	Basic, Standard, High, Very High	Bitrate Control	H.264 - CBR / VBR	Max. Frame Rate	30fps : 1280x720	Audio Compression	G.726, G.711	Two-way audio	Yes	IP Camera Protocol	DirectIP IDIS ONVIF Profile S	Supported Resolution	1280x720, 704x480, 640x360, 352x240 1280x720, 704x480, 352x240	Multi-Video Streaming	Quadruple streaminging Triple streaminging	Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP	Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption	Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite	Ethernet	RJ45(10/100BASE-T)	Edge Storage	SD (SDHC)
DirectIP Mode	Compatibility Mode																														
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Video Compression Level (Quality)	Basic, Standard, High, Very High																														
Bitrate Control	H.264 - CBR / VBR																														
Max. Frame Rate	30fps : 1280x720																														
Audio Compression	G.726, G.711																														
Two-way audio	Yes																														
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Edge Storage	SD (SDHC)																														
ALARM & EVENT																															
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone																														
Event Buffering (Pre & Post)	yes (up to 60MB)																														
Event Notification	Remote S/W, Email (with Image)																														
Audio In/ Out	Line-in 1ea / Line-out 1ea																														
Alarm In/ Out	Input 1ea / Output 1ea																														
ENVIRONMENTAL																															
Vandal-proof Casing	-																														
Out-door Ready	-																														
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)																														
Operating Humidity	0% ~ 90%																														
ELECTRICAL																															
Power Source	12VDC, 24VAC, PoE(IEEE 802.3af class 0)																														
Power Consumption	6W																														
Approvals	FCC, CE(50130-4), KC																														
MECHANICAL																															
Dimensions	77.8mm x 75mm x 190.1mm (3.07" x 2.96" x 7.49")																														
Weight	0.71 kg (1.57 lb)																														

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



DA-BH1100



DA-WM1500

ACCESSORIES CONFIGURATION TREE



Full HD 18x Zoom Camera

DC-Z1263

- Easy installation with DirectIP NVR
- Full HD (1080p) resolution
- AF optical zoom lens(f=4.7 - 84.6mm), 18x zoom
- SD/SDHC
- Two-way audio
- Alarm in / out
- PoE(IEEE 802.3af class 0), 12V DC, 24V AC
- Day&night (ICR)
- Supports ONVIF



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens type	AF Zoom Lens
Focal Length	f=4.7 - 84.6mm
Aperture	F1.6 - 2.8
Iris Control	DC Auto Iris
Angular Field of View	Wide : 61.2°(H), 35.6°(V), 68.9°(D) Tele : 3.6°(H), 2.1°(V), 4.1°(D)
Min. Illumination	COLOR : 0.1 lux @ F1.6 B/W : 0.004 lux @ F1.6
S/N Ratio	31.2dB
Dynamic Range	74.7dB
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/8000), Anti-Flicker, Slow Shutter(1/7.5,1/15)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	-
Image Setting	Configurable Exposure, White Balance, Sharpness
Digital Noise Reduction	Configurable 2DNR
Backlight Compensation	On / Off / HSBLC
Mirroring / Pivot	Horizontal / Vertical
Image Stabilizer	-
Privacy Masking	16 Zones
Intelligent Video	Video Motion Detection, Active Tampering Alarm, Trip Zone
Video Out	1 RCA
NETWORK	
	DirectIP Mode Compatibility Mode
Video Compression	H.264(MP), M-JPEG
Video Compression Level (Quality)	Basic, Standard, High, Very High
Bitrate Control	H.264 - CBR / VBR
Max. Frame Rate	30fps : 1920 x 1080
Audio Compression	G.726, G.711
Two-way audio	Yes
IP Camera Protocol	DirectIP IDIS ONVIF Profile S
Supported Resolution	1920x1080, 1280x720, 704x480, 1920x1080, 1280x720, 704x480, 640x360, 352x240 352x240
Multi-Video Streaming	Quadruple streaming Triple streaming
Network Protocols	Direct IP Protocol RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
Security	SSL Encryption Multi-User Authority, IEEE 802.1x IP Filtering, HTTPS, SSL Encryption
Remote Access Client	DirectIP™ NVR connection IDIS Web, IDIS Mobile, IDIS Solution Suite
Ethernet	RJ45(10/100BASE-T)
Edge Storage	SD (SDHC)
ALARM & EVENT	
Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, TripZone
Event Buffering (Pre & Post)	yes (up to 60MB)
Event Notification	Remote S/W, Email (with Image)
Audio In/ Out	Line-in 1ea / Line-out 1ea
Alarm In/ Out	Input 1ea / Output 1ea
ENVIRONMENTAL	
Vandal-proof Casing	-
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F) *Starting up at above 0°C (32°F)
Operating Humidity	0% ~ 90%
ELECTRICAL	
Power Source	12VDC, 24VAC, PoE(IEEE 802.3af class 0)
Power Consumption	6W
Approvals	FCC, CE(50130-4), KC
MECHANICAL	
Dimensions	77.8mm x 75mm x 190.1mm (3.07" x 2.96" x 7.49")
Weight	0.71 kg (1.57 lb)

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE





HD-TVI SOLUTION

Full HD Surveillance over Coax

DirectCX | IDIS introduces DirectCX, the industry's most advanced analog HD solution. Based on HD-TVI(High Definition Transfer Video Interface) technology, IDIS incorporates its expertise in image processing to provide unrivalled HD recording performance at lower cost. Designed for simplicity, convenience and performance, DirectCX is an optimal surveillance solution to meet the requirements of various applications in small sizes to more complex larger installations.

Direct CX



HD-TVI 4channel Full HD Recorder

TR-1104

- Supports HD-TVI / 960H / Analog camera
- Up to 120ips HD recording
- Full HD Display with HDMI and VGA output
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 8TB using 2 SATA interfaces
- Supports one click network configuration through FEN service

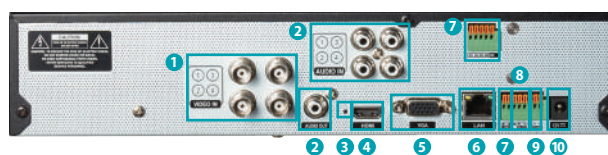
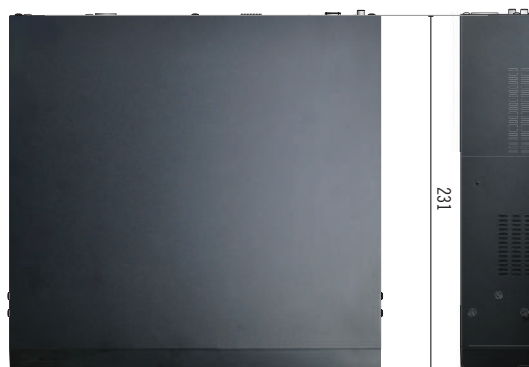
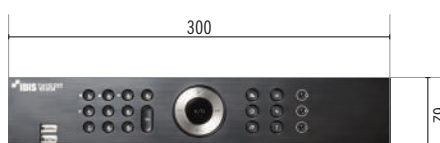


SPECIFICATIONS

VIDEO	
Video Inputs	4 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024
Display Speed	Up to 120ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480 960x240, 720x240 480x240, 360x240
Frame Rate	120ips@720P, 40ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 720P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 2 (Up to 4TB capacity for each disk)
Total Capacity	8TB=4TB x 2
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@DI(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In/ Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	4 In / 1 Relay Out
Alarm Reset In	-
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	300mm x 62mm x 231 mm (11.8" x 2.4" x 9.1")
Unit Weight	2.3kg (5.1lbs) (with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 1.5A
Power Consumption	18W
Approvals	FCC, CE

DIMENSIONS

(Unit - mm)



- 1 Video Input
- 2 Audio In / Out
- 3 Factory Reset button
- 4 HDMI Out Port
- 5 VGA Out Port
- 6 Network Port
- 7 Alarm Connection
- 8 RS-232 Port
- 9 RS-485 Port
- 10 Power In Port

TR-2104

- Supports HD-TVI / 960H / Analog camera
- Up to 120ips Full HD recording
- Full HD Display with HDMI and VGA output
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 8TB using 2 SATA interfaces
- Supports one click network configuration through FEN service

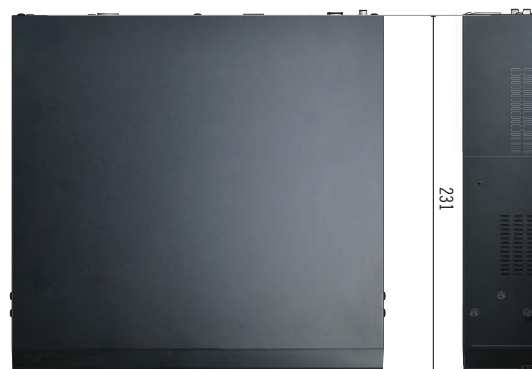
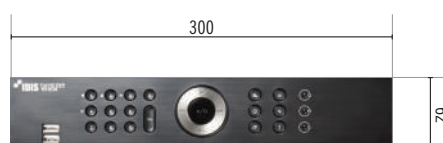


SPECIFICATIONS

VIDEO	
Video Inputs	4 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024
Display Speed	Up to 120ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480, 960x240, 720x240 480x240, 360x240
Frame Rate	120ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 1080P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x 2 (Up to 4TB capacity for each disk)
Total Capacity	8TB=4TB x 2
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@D1(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In / Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	4 In / 1 Relay Out
Alarm Reset In	-
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	300mm x 62mm x 231 mm (11.8" x 2.4" x 9.1")
Unit Weight	2.3kg (5.1lbs) (with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 1.6A
Power Consumption	19.2W
Approvals	FCC, CE, KC

DIMENSIONS

(Unit - mm)



- | | |
|------------------------|--------------------|
| 1 Video Input | 7 Alarm Connection |
| 2 Audio In / Out | 8 RS-232 Port |
| 3 Factory Reset button | 9 RS-485 Port |
| 4 HDMI Out Port | 10 Power In Port |
| 5 VGA Out Port | |
| 6 Network Port | |

HD-TVI 8channel Full HD Recorder

TR-3108

- Supports HD-TVI / 960H / Analog camera
- Up to 240ips HD recording
- Full HD Display with HDMI and VGA output
- Supports CVBS Spot Monitor
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 32TB using 4 SATA interfaces and 1 eSATA storage interface
- Supports one click network configuration through FEN service

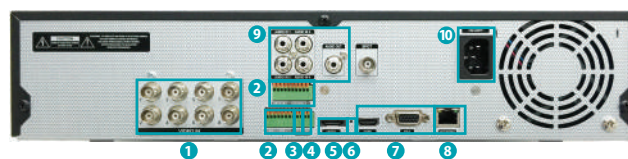
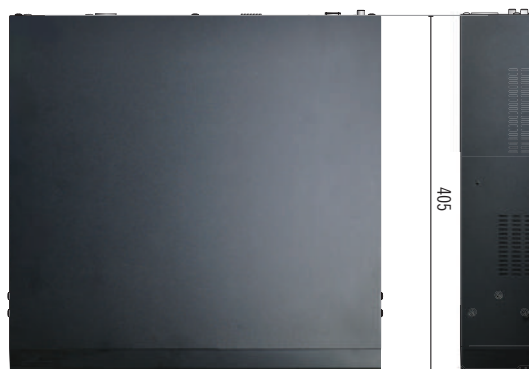


SPECIFICATIONS

VIDEO	
Video Inputs	8 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA, 1 BNC(Spot)
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024 Composite : 720x480(NTSC) , 720x576(PAL)
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480,720x480 960x240, 720x240 480x240, 360x240
Frame Rate	240ips@720P, 80ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 720P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x (4 + 1 x 4)
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@D1(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In/ Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	8 In / 2 Relay Out
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network Remote Keyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	430mm x 88mm x 405 mm (16.9" x 3.5" x 15.9")
Unit Weight	6.0kg (13.2lbs)(with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.6 - 0.8A
Power Consumption	80W
Approvals	FCC, CE, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- 1 Video Input
- 2 Alarm Connection Ports
- 3 RS-485 Port
- 4 RS-232 Port
- 5 eSATA Port
- 6 Factory Reset Button
- 7 SPOT / HDMI / VGA Out Port
- 8 Network Port
- 9 Audio In / Out
- 10 Power In Port

HD-TVI 16channel Full HD Recorder

TR-3116

- Supports HD-TVI / 960H / Analog camera
- Up to 480ips HD recording
- Full HD Display with HDMI and VGA output
- Supports CVBS Spot Monitor
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 32TB using 4 SATA interfaces and 1 eSATA storage interface
- Supports one click network configuration through FEN service

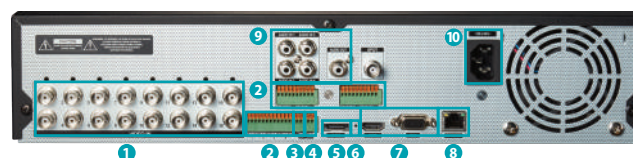
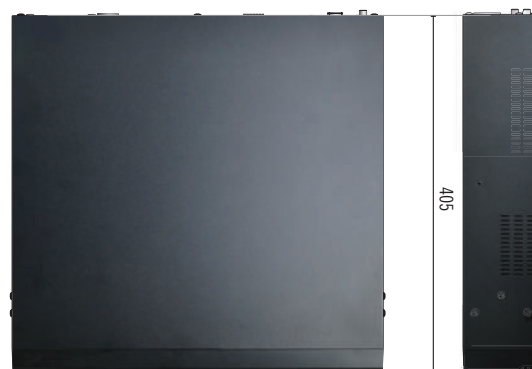


SPECIFICATIONS

VIDEO	
Video Inputs	16 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA, 1 BNC(Spot)
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024 Composite : 720x480(NTSC) , 720x576(PAL)
Display Speed	Up to 480ips
Digital Zoom	x2 - x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480,720x480 960x240, 720x240 480x240, 360x240
Frame Rate	480ips@720P, 160ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 720P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 - x12
STORAGE	
HDD	SATA x4, eSATA x 1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x (4 + 1 x 4)
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@D1(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In/ Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	16 In / 2 Relay Out
Alarm Reset In	1
Serial Interface	RS232, RS485 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network RemoteKeyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	430mm x 88mm x 405 mm (16.9" x 3.5" x 15.9")
Unit Weight	6.0kg (13.2lbs)(with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.6 - 0.8A
Power Consumption	80W
Approvals	FCC, CE, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | |
|--------------------------|------------------------------|
| 1 Video Input | 7 SPOT / HDMI / VGA Out Port |
| 2 Alarm Connection Ports | 8 Network Port |
| 3 RS-485 Port | 9 Audio In / Out |
| 4 RS-232 Port | 10 Power In Port |
| 5 eSATA Port | |
| 6 Factory Reset Button | |

HD-TVI 8channel Full HD Recorder

TR-4108

- Supports HD-TVI / 960H / Analog camera
- Up to 240ips Full HD recording
- Full HD Display with HDMI and VGA output
- Supports CVBS Spot Monitor
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 32TB using 4 SATA interfaces and 1 eSATA storage interface
- Supports one click network configuration through FEN service

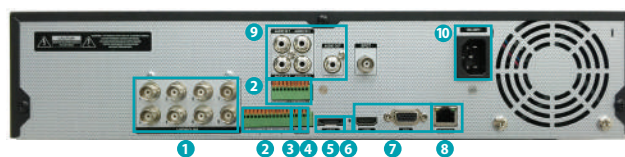
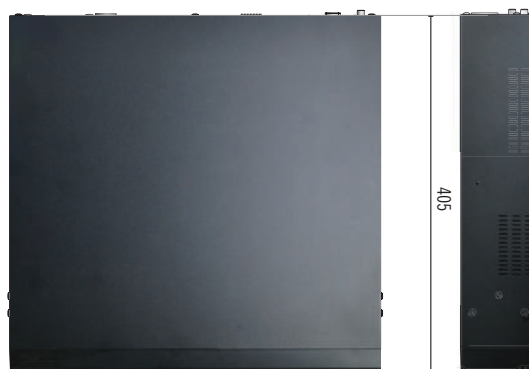


SPECIFICATIONS

VIDEO	
Video Inputs	8 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA, 1 BNC(Spot)
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024 Composite : 720x480(NTSC) , 720x576(PAL)
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480 960x240, 720x240 480x240, 360x240
Frame Rate	240ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 1080P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x (4 + 1 x 4)
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@D1(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In/ Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	8 In / 4 Relay Out
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network RemoteKeyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	430mm x 88mm x 405 mm (16.9" x 3.5" x 15.9")
Unit Weight	6.0kg (13.2lbs)(with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.0 - 0.5A
Power Consumption	80W
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | |
|--------------------------|------------------------------|
| 1 Video Input | 7 SPOT / HDMI / VGA Out Port |
| 2 Alarm Connection Ports | 8 Network Port |
| 3 RS-485 Port | 9 Audio In / Out |
| 4 RS-232 Port | 10 Power In Port |
| 5 eSATA Port | |
| 6 Factory Reset Button | |

HD-TVI 16channel Full HD Recorder

TR-4116

- Supports HD-TVI / 960H / Analog camera
- Up to 480ips Full HD recording
- Full HD Display with HDMI and VGA output
- Supports CVBS Spot Monitor
- Long transmission distance over coax cable
- Supports HD-TVI camera OSD control over Coax
- Expandable up to 32TB using 4 SATA interfaces and 1 eSATA storage interface
- Supports one click network configuration through FEN service

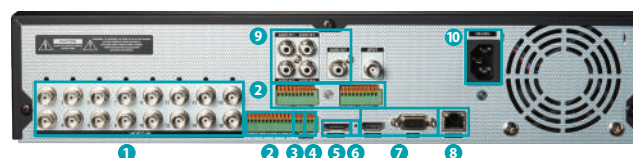
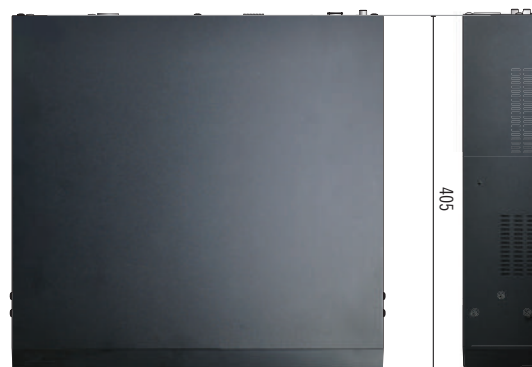


SPECIFICATIONS

VIDEO	
Video Inputs	16 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA, 1 BNC(Spot)
Display Resolution	HDMI / VGA : 1920 x 1080, 1440 x 900, 1280 x 1024 Composite : 720x480(NTSC) , 720x576(PAL)
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480 960x240, 720x240 480x240, 360x240
Frame Rate	480ips@1080P
Compression	H.264
Recording Mode	Time-Lapse, Event, Pre-Event, Panic
Trigger Events	Alarm in, Motion detection, Video loss, Text-in
RECORDING	
Performance	4ch 1080P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x4, eSATA x 1, (Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x (4 + 1 x 4)
Data Export Device	USB HDD, USB Stick
NETWORK	
Client Connection	Gigabit Ethernet x1
Transmission Speed	30ips@D1(NTSC / PAL)
Remote Data Export	IDIS Player, AVI, JPG
Event Notification	Email (attach clip (.cbf) .MP4), Callback to Remote S/W Push notification (IDIS Mobile), SNS (Twitter)
Two-way audio	Support
Client Viewer	IDIS Center, IDIS Mobile, IDIS Web
INTERFACE	
Audio In / Out	4 RCA / 1 RCA + 1 HDMI
Alarm In / Out	16 In / 4 Relay Out
Alarm Reset In	1
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Front Button, Network RemoteKeyboard
GENERAL	
Operating System	Embedded Linux
Unit Dimensions (W x H x D)	430mm x 88mm x 405 mm (16.9" x 3.5" x 15.9")
Unit Weight	6.0kg (13.2lbs)(with 1 HDD)
Operating Temperature	5°C to 40°C (41°F~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	AC 100-240 V, 50/60Hz, 1.0 - 0.5A
Power Consumption	80W
Approvals	FCC, CE, KC, CB, UL, PSE

DIMENSIONS

(Unit - mm)



- | | |
|--------------------------|------------------------------|
| 1 Video Input | 7 SPOT / HDMI / VGA Out Port |
| 2 Alarm Connection Ports | 8 Network Port |
| 3 RS-485 Port | 9 Audio In / Out |
| 4 RS-232 Port | 10 Power In Port |
| 5 eSATA Port | |
| 6 Factory Reset Button | |

2MP Box Camera

TC-B1202

- Full HD (1080p) resolution
- C / CS Mount Lens
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBLC
- OSD Control over Coax

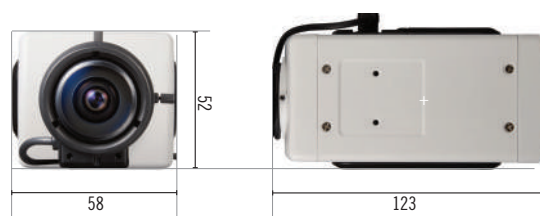


SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	C/CS Mount Lens
IRIS Control	DC Auto Iris / Manual Iris
Min. illumination	COLOR : 0.9 Lux @ F1.8 B/W : 0.6 Lux @ F1.8
S/N Ratio	More than 50dB
Electronics Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBLC	1 ~ 20 Level Adjustable(ALL DAY/NIGHT ONLY)
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Color/B&W/EXTERN
Smart-IR(IR OPTIMIZER)	-
White Balance	AUTO(2,500K ~ 9,500K) / AWB(1,800K ~ 10,500K) / AWC--Set / Manual
Digital Noise Reduction	2D+3DNR(OFF/LOW/MIDDLE/HIGH)
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	X1 ~ X8
Sharpness	0~20 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	-
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	12VDC, 24VAC
Power Consumption	2.64W
MECHANICAL	
Dimensions (W x H x D)	58mm x 52mm x 123mm (2.29" x 2.05" x 4.85")

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



DA-BH1100



DA-WM1500

ACCESSORIES CONFIGURATION TREE



2MP Out-door Fixed Bullet Camera

TC-E1212WR

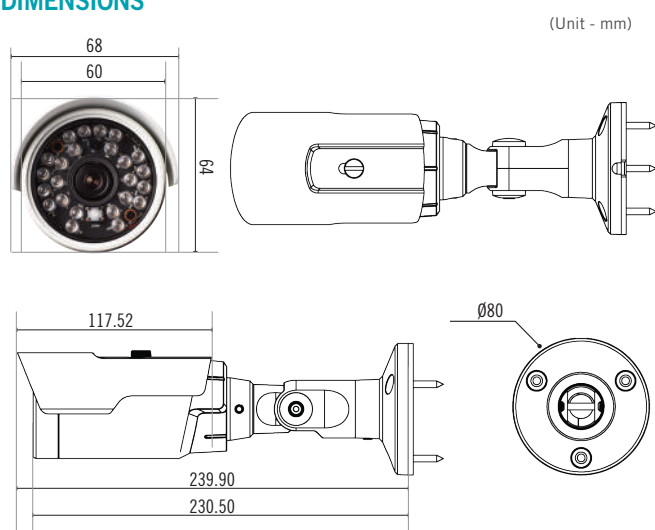
- Full HD (1080p) resolution
- Fixed-focal Lens (f=3.6mm)
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBLC
- Vandal Proof / IP66 supports
- Coaxial OSD Control



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	Fixed-focal
Focal Length	f = 3.6mm
IRIS Control	Fixed Iris
Angular Field of View	92.6°(H), 54.6°(V), 120.0°(D) COLOR : 0.9 Lux @ F1.8
Min. illumination	B/W : 0 Lux (IR LED ON)
S/N Ratio	More than 50dB
Electronic Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
IR Distance (LEDs)	10m (24ea)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBLC	1 ~ 20 Level Adjustable(ALL DAY/NIGHT ONLY)
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Color/B&W/EXTERN
Smart -IR(IR OPTIMIZER)	0~20 Level Adjustable
White Balance	AUTO(2,500K ~ 9,500K) / AWB(1,800K ~ 10,500K) / AWC---Set / Manual
Digital Noise Reduction	2D+3DNR(OFF/LOW/MIDDLE/HIGH)
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	X1 ~ X8
Sharpness	0~20 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	IP66
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	DC 12V
Power Consumption	6W
MECHANICAL	
Dimensions (W x H x D)	68mm x 65.5mm x 136.7mm (2.68" x 5.58" x 5.39")

DIMENSIONS



2MP Out-door Vari-focal Bullet Camera

TC-T1222WR

- Full HD (1080p) resolution
- Vari-focal Lens (f=2.8mm ~ 12mm)
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBLC
- Vandal Proof / IP66 supports
- Coaxial OSD Control



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	Vari-focal
Focal Length	f = 2.8mm ~ 12mm
IRIS Control	DC Auto Iris
Angular Field of View	Wide : 120.9°(H), 61.4°(V), 149.6°(D) Tele : 37.1°(H), 20.7°(V), 42.7°(D)
Min. illumination	COLOR : 0.9 Lux @ F1.8 B/W : 0 Lux (IR LED ON)
S/N Ratio	More than 50dB
Electronic Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
IR Distance (LEDs)	30m (42ea)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBLC	1 ~ 20 Level Adjustable(ALL DAY/NIGHT ONLY)
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Color/B&W/EXTERN
Smart-IR(IR OPTIMIZER)	0~20 Level Adjustable
White Balance	AUTO(2,500K ~ 9,500K) / AWB(1,800K ~ 10,500K) / AWC--Set / Manual
Digital Noise Reduction	2D+3DNR(OFF/LOW/MIDDLE/HIGH)
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	X1 ~ X8
Sharpness	0~20 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	IP66
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	12VDC, 24VAC
Power Consumption	7.2W
MECHANICAL	
Dimensions (W x H x D)	95mm x 80mm x 265mm (3.75" x 3.15" x 10.44")

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



2MP Indoor IR Fixed Dome Camera

TC-D1212R

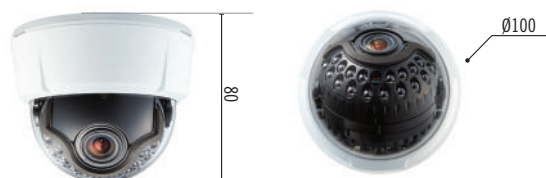
- Full HD (1080p) resolution
- Fixed-focal Lens (f=3.6mm)
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBLC
- Coaxial OSD Control



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	Fixed-focal
Focal Length	f = 3.6mm
IRIS Control	Fixed Iris
Angular Field of View	92.6°(H), 54.6°(V), 120.0°(D)
Pan/Tilt Range	Pan : 0° ~ 340° Tilt : 7° ~ 90°
Min. illumination	COLOR : 0.3 Lux @ F1.2 B/W : 0 Lux (IR LED ON)
S/N Ratio	More than 50dB
Electronic Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
IR DISTANCE (LEDs)	10m (18ea)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Day/Night/Ext
Smart -IR(IR OPTIMIZER)	0~15 Level Adjustable
White Balance	ATW(1,700K ~ 11,000K) / AWC--Set / Manual /AWB
Digital Noise Reduction	2D, 3DNR
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	OFF/ON (x2 ~ x8)
Sharpness	0~15 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	-
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	DC 12V
Power Consumption	4.56W
MECHANICAL	
Dimensions (W x H x D)	Ø100mm x 80mm (Ø3.94" x 3.15")

DIMENSIONS



ACCESSORIES(OPTIONAL)



DA-WM2150

ACCESSORIES CONFIGURATION TREE



Wall Mount
(DA-WM2150)

2MP Indoor IR Vari-focal Dome Camera

TC-D1222R

- Full HD (1080p) resolution
- Vari-focal Lens (f=2.8mm ~ 12mm)
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBC
- Coaxial OSD Control



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	Vari-focal
Focal Length	f = 2.8mm ~ 12mm
IRIS Control	DC Auto Iris
Angular Field of View	Wide : 120.9°(H), 61.4°(V), 149.6°(D) Tele : 37.1°(H), 20.7°(V), 42.7°(D)
Pan/Tilt Range	Pan : 0° ~ 340° Tilt : 7° ~ 90°
Min. illumination	COLOR : 0.9 Lux @ F1.8 B/W : 0 Lux (IR LED ON)
S/N Ratio	More than 50dB
Electronic Shutter Speed	AUTO / Manual(1/30, 1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
IR DISTANCE (LEDs)	20m (28ea)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBC	1 ~ 20 Level Adjustable(ALL DAY/NIGHT ONLY)
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Color/B&W/EXTERN
Smart -IR(IR OPTIMIZER)	0~20 Level Adjustable
White Balance	AUTO(2,500K ~ 9,500K) / AWB(1,800K ~ 10,500K) / AWC--Set / Manual
Digital Noise Reduction	2D+3DNR(OFF/LOW/MIDDLE/HIGH)
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	X1 ~ X8
Sharpness	0~20 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	-
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	12VDC, 24VAC
Power Consumption	4.8W
MECHANICAL	
Dimensions (W x H x D)	Ø130mm x 101.8mm (Ø5.12" x 4.01")

DIMENSIONS

(Unit - mm)



ACCESSORIES(OPTIONAL)



DA-WM2150

ACCESSORIES CONFIGURATION TREE



Wall Mount
(DA-WM2150)

2MP Out-door IR Vari-focal Dome Camera

TC-D1222WR

- Full HD (1080p) resolution
- Vari-focal Lens (f=2.8mm ~ 12mm)
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- Motion Detection
- De-fog
- HSBLC
- Vandal Proof / IP66 supports
- Coaxial OSD Control



SPECIFICATIONS

VIDEO	
Image Sensor	1/2.8" SONY 2Mega Exmor CMOS Sensor
Effective pixels	1984(H) X 1105(V), 2.19M Pixels
Total pixels	2000(H) X 1121(V), 2.24M Pixels
Max. Resolution	1920 X 1080
Scanning Mode	Progressive Scan
Lens Type	Vari-focal
Focal Length	f = 2.8mm ~ 12mm
IRIS Control	DC Auto Iris
Angular Field of View	Wide : 120.9°(H), 61.4°(V), 149.6°(D) Tele : 37.1°(H), 20.7°(V), 42.7°(D)
Pan/Tilt Range	Pan : 0° ~ 340° Tilt : 7° ~ 90°
Min. illumination	COLOR : 0.9 Lux @ F1.8 B/W : 0 Lux (IR LED ON)
S/N Ratio	More than 50dB
Electronic Shutter Speed	AUTO / Manual(1/30, 1/25Sec ~ 1/30000Sec) / FLICKER
Day/Night	YES(ICR)
IR DISTANCE (LEDs)	20m (28ea)
Video Out	1 HD BNC , 1 SD BNC
FUNCTION	
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / x2 ~ x32
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High / 15 Frame)
Backlight Compensation(BLC)	OFF/ON
HSBLC	1 ~ 20 Level Adjustable(ALL DAY/NIGHT ONLY)
ACE(D-WDR/ATR-EX)	OFF/LOW/MIDDLE/HIGH
Motion Detection	OFF/ON (4 Zone)
Privacy Masking	OFF/ON (16 Zone)
Day & Night	Auto(AGC)/Color/B&W/EXTERN
Smart -IR(IR OPTIMIZER)	0~20 Level Adjustable
White Balance	AUTO(2,500K ~ 9,500K) / AWB(1,800K ~ 10,500K) / AWC--Set / Manual
Digital Noise Reduction	2D+3DNR(OFF/LOW/MIDDLE/HIGH)
Mirror	MIRROR,V-FLIP
D-ZOOM(EZOOM)	X1 ~ X8
Sharpness	0~20 Level Adjustable
De-fog	OFF/ON
GAMMA Correction	r = 0.45 ~ 0.65
Lens Shading(LSC)	OFF/ON
ENVIRONMENTAL	
Out-door Ready	IP66
Storage Temperature	-20°C~ +60°C(-4°F~ +140°F) (Humidity : 0% ~ 95%)
Operating Temperature	-10°C~ +50°C(14°F~ +122°F) (Humidity : 0% ~ 90%)
ELECTRICAL	
Power Source	12VDC, 24VAC
Power Consumption	4.8W
MECHANICAL	
Dimensions (W x H x D)	Ø150.5mm x 98.8mm (Ø5.93" x 3.89")

DIMENSIONS

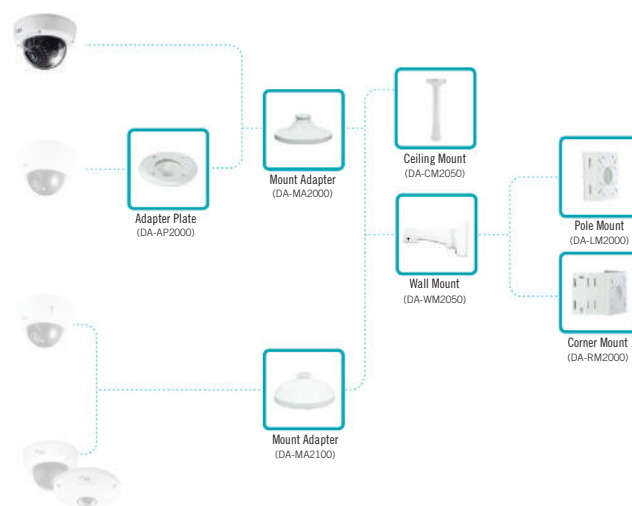
(Unit - mm)



ACCESSORIES(OPTIONAL)



ACCESSORIES CONFIGURATION TREE



SURVEILLANCE DISPLAYS



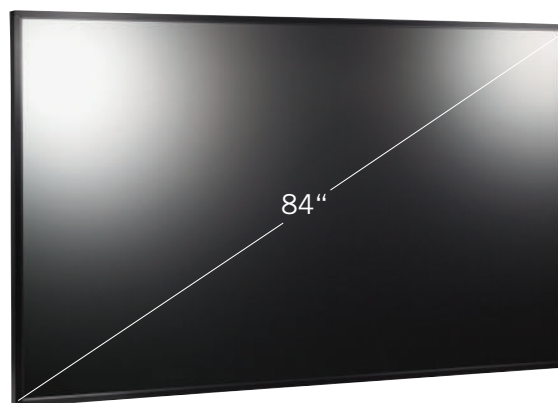
IDIS offers a complete line of surveillance-grade monitors designed to meet stringent demands from IP surveillance industry.

IDIS offers a complete line of surveillance-grade monitors designed to meet stringent demands from IP surveillance industry. Combining our expertise in image processing technology and in-depth understanding of video surveillance industry, IDIS surveillance monitors provide an array of surveillance-oriented features allowing longer lifetime, anti image-sticking, energy saving and VESA compliances. Our exclusive range of surveillance monitors feature industry-leading UHD to Full HD resolution in various sizes.

84-inch UHD Surveillance LCD Monitor

SM-U841

- UHD resolution (3840 x 2160)
- Slim and space-saving design
- VESA-compliant mounting
- Rugged aluminum structure
- Clear motion display with S-IPS panel
- Anti-glare coating
- Wide viewing angle (178°)
- Lifetime up to 50,000 hours
- Low power consumption
- HDMI/DP/VGA/DVI/Audio/RS232

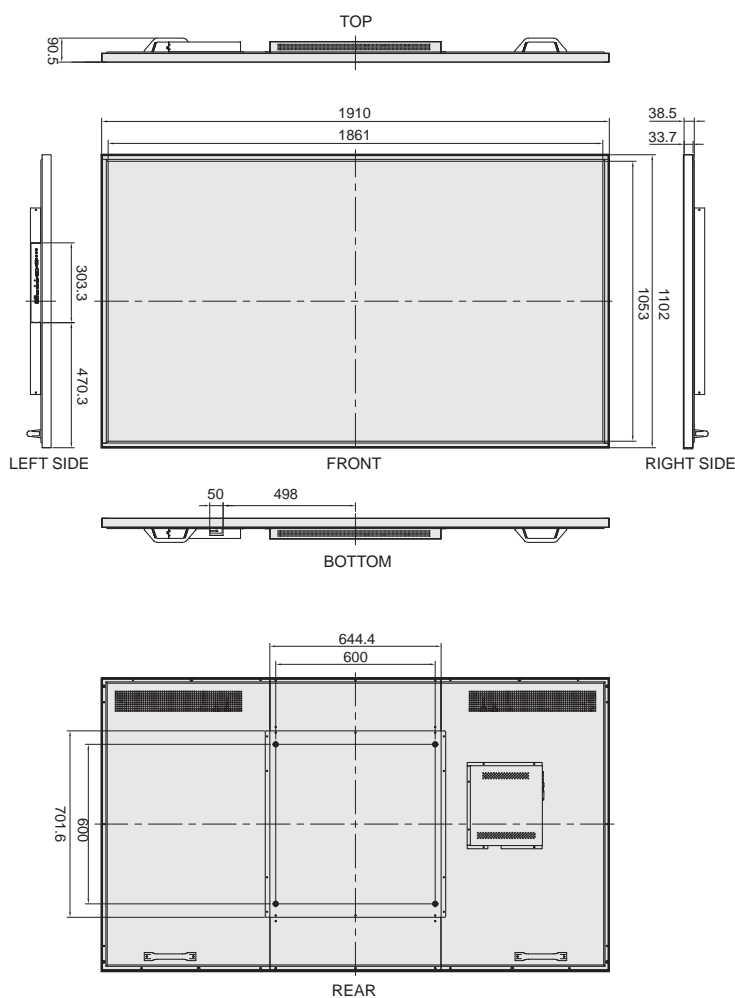


SPECIFICATIONS

Panel	
Screen Size	84 Inch
Active Display Area	1,860.48(H) x 1,046.52(V) mm
Max. Resolution	3840 x 2160
Panel Technology	IPS (In-Plane Switching)
Pixel Pitch	0.4845 mm x 0.4845 mm
Brightness	250 cd/m2
Contrast Ratio	750 : 1
Aspect Ratio	16:9
Viewing Angle (H/V)	178° / 178°
Display Color	1.06 Billion
Response Time	8ms
Refresh Rate	120Hz
Interface	
HDMI in	2 (HDMI 1.4)
Display Port	1 (1.1a)
VGA in	1
DVI in	1
Audio Input	1 (3.5 Stereo Jack)
Audio Output	1 (3.5 Stereo Jack)
RS232	1
Transmitter	
Remote Control	Yes
Audio	
Built-in Speakers	Yes (10W x 2)
Feature	
Power Savings (DPMS)	Yes
Anti-glare	Yes
General	
Outline Dimensions (W x H x D)	1,910mm x 1,102mm x 90.5mm 75.2" x 43.3" x 3.5"
Net Weight	68 kg (150 lbs)
Material / Color	Metal / Black
Warranty - Parts / Labor	3 year / 3 year
MTBF	50,000 Hours
Power Supply	AC 100 - 240V 50/60Hz
Power Consumption	500W
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Mount	
VESA Mount Size	600mm x 600mm / M8 Screw

DIMENSIONS

(Unit - mm)



55-inch Full-HD UNB Video Wall Monitor

VW-F551

- Ultra narrow bezel for seamless viewing (3.6mm bezel-to-bezel)
- Full HD resolution (1920 x 1080)
- VESA-compliant mounting
- Clear motion display with S-IPS panel
- Anti-glare coating
- Wide viewing angle (178°)
- Lifetime up to 60,000 hours
- Low power consumption
- HDMI/DP/VGA/DVI/BNC/RS232

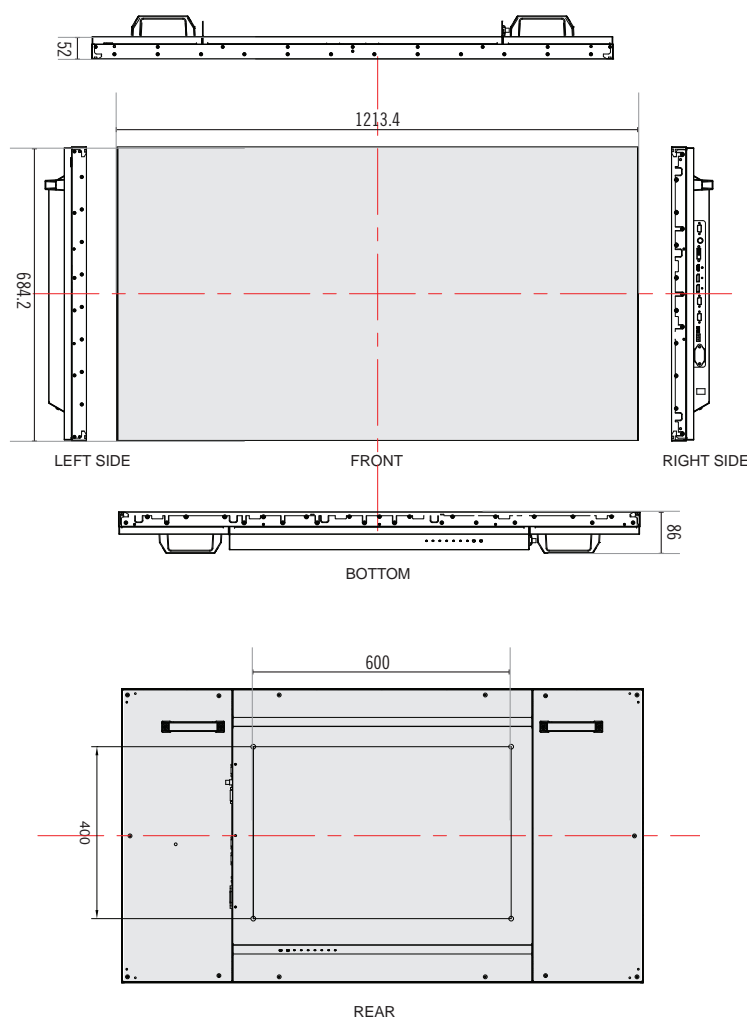


SPECIFICATIONS

Panel	
Screen Size	55 Inch
Active Display Area	1,209.6(H) x 680.4(V) mm
Max. Resolution	1920 x 1080 @ 60Hz
Panel Technology	IPS (In-Plane Switching)
Pixel Pitch	0.63mm (H) X 0.63mm (V)
Brightness	500 cd/m2
Contrast Ratio	1400 : 1
Aspect Ratio	16:9
Viewing Angle (H/V)	178° / 178°
Display Color	1.06 Billion (10bit)
Response Time	12ms
Refresh Rate	60Hz
Interface	
HDMI in	1
Display Port	1/1
VGA in	1
DVI in	1
BNC Video in	1
RS232	1
External Control	
IR Sensor	Remote Control
Serial IN/OUT	RS232-C Daisy Chain
USB	(for firmware update)
Transmitter	
Remote Control	Yes
Feature	
Power Savings (DPMS)	Yes
Anti-glare	Yes
General	
Outline Dimensions (W x H x D)	1213.4mm x 684.2mm x 86mm
	47.7" x 26.9" x 3.3"
Bezel	3.6mm (Bezel to Bezel)
Net Weight	24kg (52.9 lbs)
Material / Color	Metal / Black
Warranty - Parts / Labor	3 year / 3 year
MTBF	60,000 Hours
Power Supply	AC 110~127V 50/60Hz, 220~240 50/60Hz
Power Consumption	240W
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Storage Temperature	0°C ~ 40°C (32°F ~ 104°F)
Mount	
VESA Mount Size	600mm x 400mm / M8 Screw

DIMENSIONS

(Unit - mm)



NETWORK ACCESSORIES

Complete accessory line up

that compliments the IDIS IP surveillance system

By providing various DirectIP™ attachments and accessories, customers can minimise expensive training requirements and save on installation time. Quick, convenient and affordable implementation of DirectIP™ based network surveillance solutions is enabled through the range of network attachments and accessories including PoE injectors, IP to fiber optic converters, SFP modules, eSATA storage devices, remote controllers and so on. With our video encoder, users can connect conventional analogue cameras to DirectIP™ NVRs. This enables the easy integration of existing analogue systems that are seen as one complete system, ensuring full flexibility for all types of applications.



Reset

Focus

Iris

Auto Pan

Tour

Pattern

Home

Menu

Light On

Aux On

Alarm Bypass

Reset All

F1

F2

F3

F4

F5

F6

F7

F8

PANE

MON

DEV

SHIFT

1

2

3

4

5

6

7

8

9

0

MACRO

CAM

1/2

1/4

1/8

1/16



DirectIP™ 4-channel Encoder

DE-1104

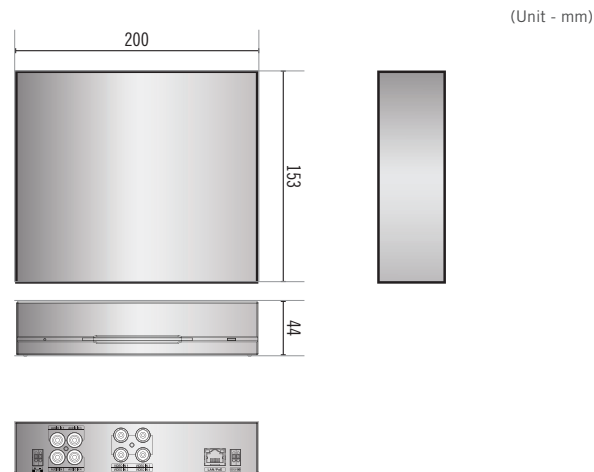
- Specialized in DirectIP™ NVR
- Supports PTZ with RS485 port
- Supports 4 audio input ports
- Supports quadruple stream
- Supports 4 analogue camera input ports



SPECIFICATIONS

ENCODER	
Video Compression	H.264
Video Input	4 BNC Composite
Max Video Resolution	D1 : 720x480 / 720x576 (NTSC / PAL) 960H : 960x480 / 960x576 (NTSC / PAL)
Frame Rate	30ips@960H (per channel)
Multi Streaming Video	Quadruple stream
Max.Network Throughput	48Mbps
Audio In / Out	4 RCA / -
PTZ Support	Yes (RS485)
Trigger Events	Motion detection, Video loss, Tempering
DirectIP Support	Yes
GENERAL	
Dimensions (W x H x D)	200mm x 44mm x 153mm (7.9" x 1.7" x 6.0")
Weight	0.84kg (1.85lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
PoE(class)	Yes(IEEE 802.3af Class 3)
Power Input	12VDC, PoE
Power Consumption	10W
Approvals	FCC ,CE

DIMENSIONS



DirectIP™ 8-channel Encoder

DE-1108

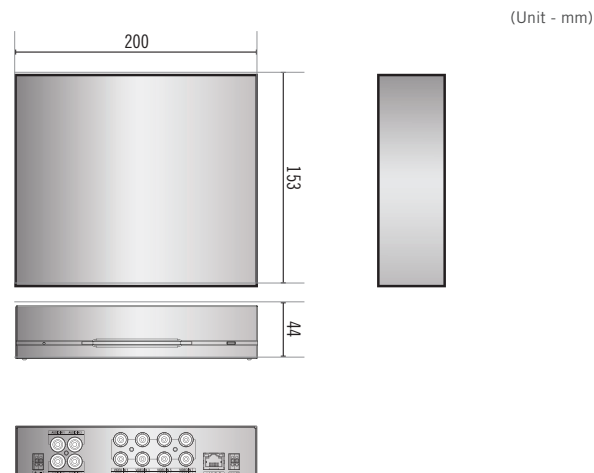
- Specialized in DirectIP™ NVR
- Supports PTZ with RS485 port
- Supports 4 audio input ports
- Supports quadruple stream
- Supports 8 analogue camera input ports



SPECIFICATIONS

ENCODER	
Video Compression	H.264
Video Input	8 BNC Composite
Max Video Resolution	D1 : 720x480 / 720x576 (NTSC / PAL) 960H : 960x480 / 960x576 (NTSC / PAL)
Frame Rate	30ips@960H (per channel)
Multi Streaming Video	Quadruple stream
Max.Network Throughput	64Mbps
Audio In / Out	4 RCA / -
PTZ Support	Yes (RS485)
Trigger Events	Motion detection, Video loss, Tempering
DirectIP Support	Yes
GENERAL	
Dimensions (W x H x D)	200mm x 44mm x 153mm (7.9" x 1.7" x 6.0")
Weight	0.84kg (1.85lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
PoE(class)	Yes(IEEE 802.3af Class 3)
Power Input	12VDC, PoE
Power Consumption	10W
Approvals	FCC ,CE

DIMENSIONS



DD-1116

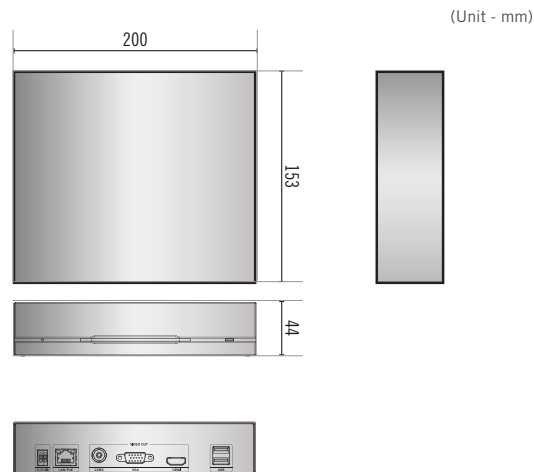
- Specialized in DirectIP™ NVR
- Supports DirectIP™ NVR
- Supports HDMI, VGA, CVBS port
- Up to 4ch FHD display
- Up to 16ch real-time display



SPECIFICATIONS

DECODER	
Video Compression	H.264
Video Input	16ch IP
Supported Devices	DirectIP NVR
Video Outputs	1 HDMI, 1 VGA, 1 CVBS
Display Resolution	HDMI , VGA : 1920x1200, 1920x1080, 1680x1050, 1600x1200 CVBS : 640x480
Display Speed	Up to 480ips
Max. Network Throughput	48Mbps
Network Connection	Gigabit Ethernet x1
GENERAL	
Dimensions (W x H x D)	200mm x 44mm x 153mm (7.9" x 1.7" x 6.0")
Weight	0.84kg (1.85lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
PoE(class)	Yes(IEEE 802.3af Class 0)
Power Input	12VDC, PoE
Power Consumption	8W
Approvals	FCC ,CE

DIMENSIONS



DirectIP™ 10-port PoE Switch

DH-2010P

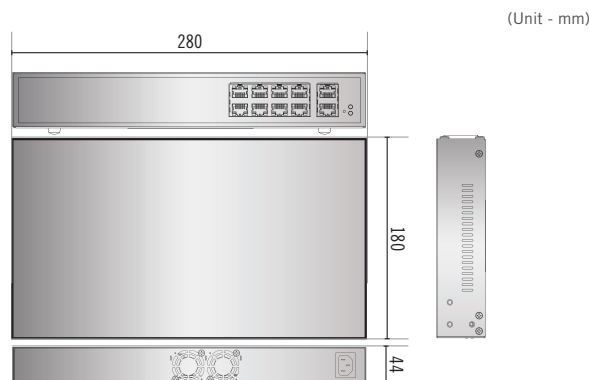
- Individual port for data transmission to DirectIP™ NVR
- PoE (IEEE 802.3af, IEEE 802.3at) compliant
- Maximum per-device PoE delivery of 70W available for 1~8 RJ45 ports
- Central power control for greater network utility
- Supports 10 x RJ45 ports



SPECIFICATIONS

SYSTEM	
CPU	Embedded MIPS
System Memory	256MB SDRAM, 32MB Flash
Switching Capacity	5.6Gbps
CONNECTIVITY	
Copper Service Port	8 RJ45 Connectors (10/100BASE-T)
Copper Uplink Port	2 RJ45 Connectors (10/100/1000BASE-T)
Optical Uplink Port	none
PoE POWER	
Supported Standards	IEEE 802.3af-2003 / IEEE 802.3at-2009
PD Connection	Up to 8 IEEE 802.3af PDs or up to 2 IEEE 802.3at PDs
PSE Power Budget	70W
GENERAL	
Dimensions (W x H x D)	280mm x 44mm x 180mm (11.0" x 1.7" x 7.1")
Weight	1.35Kg (2.97lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Input	AC100-240V, 2.0~1.0A, 50/60Hz
Power Consumption	90W
Approvals	FCC,CE,KC,UL,CB

DIMENSIONS



DirectIP™ 18-port PoE Switch

DH-2018P

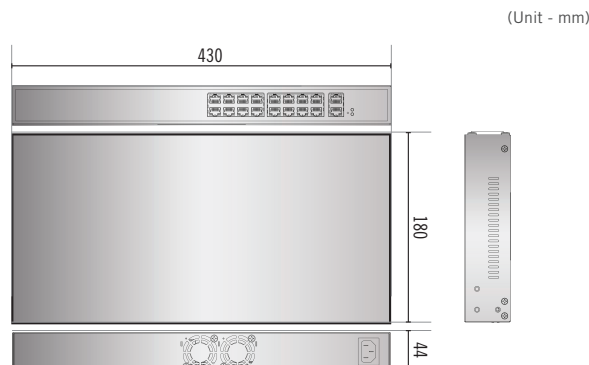
- Individual port for data transmission to DirectIP™ NVR
- PoE (IEEE 802.3af, IEEE 802.3at) compliant
- Maximum per-device PoE delivery of 140W available for 1~16 RJ45 ports
- Central power control for greater network utility
- Supports 16 x RJ45 ports



SPECIFICATIONS

SYSTEM	
CPU	Embedded MIPS
System Memory	256MB SDRAM, 32MB Flash
Switching Capacity	7.2Gbps
CONNECTIVITY	
Copper Service Port	16 RJ45 Connectors (10/100BASE-T)
Copper Uplink Port	2 RJ45 Connectors (10/100/1000BASE-T)
Optical Uplink Port	none
PoE POWER	
Supported Standards	IEEE 802.3af-2003 / IEEE 802.3at-2009
PD Connection	Up to 16 IEEE 802.3af PDs or up to 4 IEEE 802.3at PDs
PSE Power Budget	140W
GENERAL	
Dimensions (W x H x D)	430mm x 44mm x 180mm (17.0" x 1.7" x 7.1")
Weight	2.05Kg (4.52lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Input	AC100-240V, 2.0~1.0A, 50/60Hz
Power Consumption	160W
Approvals	FCC,CE,KC,UL,CB

DIMENSIONS



DirectIP™ Gigabit PoE Switch

DH-2212PF

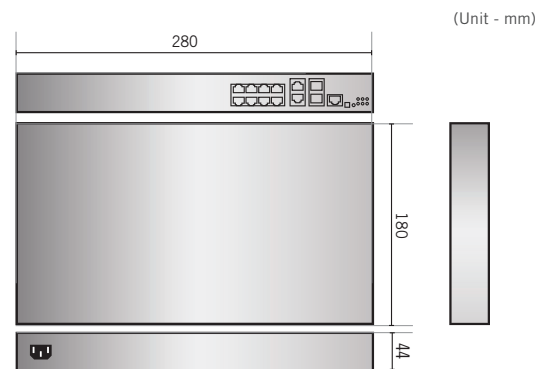
- Individual port for data transmission to DirectIP™ NVR
- PoE (IEEE 802.3af, IEEE 802.3at) compliant
- Maximum per-device PoE delivery of 140W available for 1~8 RJ45 ports
- Central power control for greater network utility
- Supports 10 RJ45 ports and 2 SFP slots



SPECIFICATIONS

SYSTEM	
CPU	Embedded MIPS
System Memory	256MB SDRAM, 32MB Flash
Switching Capacity	24Gbps
CONNECTIVITY	
Copper Service Port	8 RJ45 Connectors (10/100/1000BASE-T)
Copper Uplink Port	2 RJ45 Connectors (10/100/1000BASE-T)
Optical Uplink Port	2 SFP Slot (1000BASE-X)
PoE POWER	
Supported Standards	IEEE 802.3af-2003 / IEEE 802.3at-2009
PD Connection	Up to 8 IEEE 802.3af PDs or up to 4 IEEE 802.3at PDs
PSE Power Budget	140W
GENERAL	
Dimensions (W x H x D)	280mm x 44mm x 180mm (11.0" x 1.7" x 7.1")
Weight	1.55Kg (3.42lb)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Input	AC100-240V, 2.0~1.0A, 50/60Hz
Power Consumption	160W
Approvals	FCC, CE, KC, UL, CB

DIMENSIONS



DirectIP™ 28-port Gigabit PoE Switch

DH-2128PF

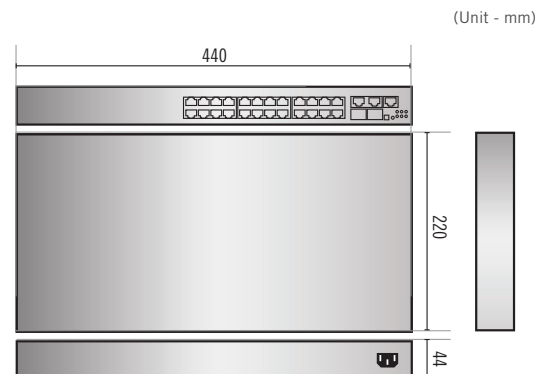
- Individual port data transmission to DirectIP™ NVR
- PoE (IEEE 802.3af, IEEE 802.3at) compliant
- Maximum per-device PoE delivery of 400W available for 1~24 RJ45 ports
- Central power control for greater network utility
- Supports 26 x RJ45 ports and 2 SFP slots



SPECIFICATIONS

SYSTEM	
CPU	56Gbps
System Memory	128MB SDRAM, 32MB Flash
Switching Capacity	56Gbps
CONNECTIVITY	
Copper Service Port	24 RJ45 Connectors (10/100/1000BASE-T)
Copper Uplink Port	2 RJ45 Connectors (10/100/1000BASE-T)
Optical Uplink Port	2 SFP Slot (1000BASE-X)
PoE POWER	
Supported Standards	IEEE 802.3af-2003 / IEEE 802.3at-2009
PD Connection	Up to 24 IEEE 802.3af PDs or Up to 13 IEEE 802.3at PDs
PSE Power Budget	400W
GENERAL	
Dimensions (W x H x D)	440mm x 44mm x 220mm (17.3" x 1.7" x 8.7")
Weight	3.13kg (6.90lbs)
Operation Temperature	-20°C ~ +50°C (-4°F ~ 122°F)
Power Input	AC100-240V, 50-60Hz, 4.8A
Power Consumption	450W
Approvals	FCC, CE, KC

DIMENSIONS



Network Keyboard

NK-1100

- Remote control of NVRs, network video transmitters, network video receivers and network cameras via network connection
- Control of NVRs by using a USB mouse via network connection
- Two-way audio communication
- Firmware duplication and auto-recovery functions to enhance system stability
- Management of multiple network keyboards via network connection
- Programmable by using the LCD screen



SPECIFICATIONS

COMMUNICATION	
Interface	RS485(Terminal block), Ethernet(RJ45)
Baud Rate	300 bps ~ 115,200bps
Supports Protocols	Over 70 sorts of PTZ protocol (IDIS, PANASONIC, PELCO, SAUMSUNG, etc.)
Supports Devices	IP Camera, NVR, IDIS Solution Suite
Display	LCD(2 Line)
USB	1 port
Audio in/out	1(3.5mm) / 1(3.5mm)
Component	Joystick + Main Control Board
S/W Upgrade	USB, Network
SETUP Program	IDIS Discovery
GENERAL	
Dimensions (W x H x D)	376.9mm x 95mm x 177.6mm (15.0" x 3.7" x 7.0")
Weight	1.1kg (2.43lbs)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Input	DC 5V, 3A
Approvals	FCC, CE, KC

eSATA Storage

DA-ES1104

- 19 inch rack-mount type
- Best combination with DirectIP™ NVR
- Supports RAID Levels 0,1+0,5
- SATA to SATA Port Multiplier
- Maximum of 3.0Gbps transfer rate (SATA II)
- Installation of the maximum of four hard disk drives
- Maximised space saving and capacity relative to cost
- Easy expansibility to a very large storage pool

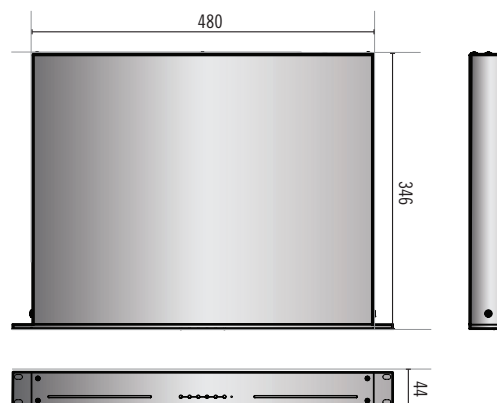


SPECIFICATIONS

HARDWARE	
Interface	eSATA x 1
Number of Drives	SATA II x 4
Drive Size	3.5"
Drive Type	SATA II
PERFORMANCE	
Type and Rate	SATA II(3Gbps)
RAID	0,1+0,5
Max Drive Capacity	16TB(up to 4TB per bay)
GENERAL	
Dimensions (W x H x D)	480mm x 44mm x 346mm (18.9" x 1.7" x 13.6")
Weight	6.4kg (14.11lbs)
Operation Temperature	0°C ~ 45°C (32°F ~ 113°F)
Power Input	100V ~ 240VAC, 0.6-0.3A, 50/60Hz
Power Consumption	Max. 40W
Approvals	FCC,CE

DIMENSIONS

(Unit - mm)



Single Port PoE Injector

DA-PI1101

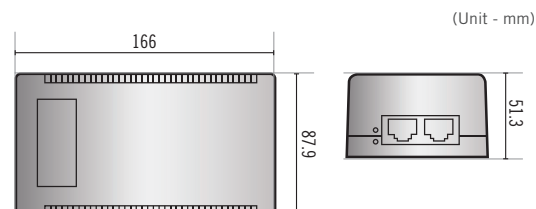
- Up to 30W of PoE Power feeding on 2-pairs
- Compatible with IEEE 802.3af, IEEE 802.3at
- Protects low power devices to receive only the power they need
- Automatic detection and protection of non-standard ethernet terminals
- Parallel slide-in design for easy installation



SPECIFICATIONS

RJ45 ETHERNET INTERFACE_DATA In	
port	1 channel
Connectivity	RJ45, Auto-MDI/MDI-X sensing
Wire Type	CAT5 or better
Distance	Up to 100m
Speed	10/100 BASE T
RJ45 ETHERNET INTERFACE_PoE	
port	1 channel
Pin Assignment and Polarity	1,2(+), 3,6(-)
PSE Power	52V DC, Max. 30W
Distance	Up to 100m
Speed	10/100 BASE-T
Supported Standards	IEEE 802.3af-2003 / IEEE 802.3at-2009
GENERAL	
Dimensions (W x H x D)	87.9mm x 51.3mm x 166mm (3.5" x 2.0" x 6.5")
Weight	350g (0.77lbs)
Operation Temperature	-15°C ~ +45°C (5°F ~ 113°F)
Power Input	100 ~240V AC, 0.8A
Approvals	FCC, CE, KC

DIMENSIONS



Single Port PoE Repeater

DA-PR1101

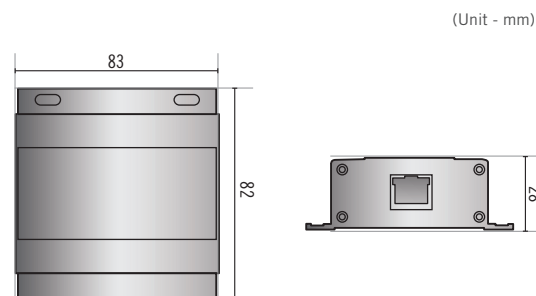
- Compatible with IEEE 802.3af
- Supports Data transfer up to 130m distance
- A maximum distance of 490m can be achieved between the NVR and Camera via three DA-PR1101 ethernet extenders
- Supports PoE switch off function via PoE On/Off switch
- Supports plug and play without setting up special IP addresses



SPECIFICATIONS

PoE IN	
Input port	RJ45(10/100 BASE-T)
Connected Devices	NVR / PoE Switch
LEDs	Data, PoE
PoE Out	RJ45(10/100 BASE-T)
OUTPUT PORT	
PSE	IEEE 802.3af
Distance	A maximum distance of 490m can be achieved between the NVR and Camera via three DA-PR1101 ethernet extenders
LEDs	Data, PoE
GENERAL	
Dimensions (WxHxD)	82mm x 28mm x 83mm (3.2" x 1.1" x 3.3")
Weight	118g (0.26lbs)
Operation Temperature	0°C ~60°C (32°F ~140°F)
Certification	FCC, CE, KC

DIMENSIONS



Ethernet over Coax (EoC) Receiver/Transceiver

DA-EC2101R DA-EC2101T

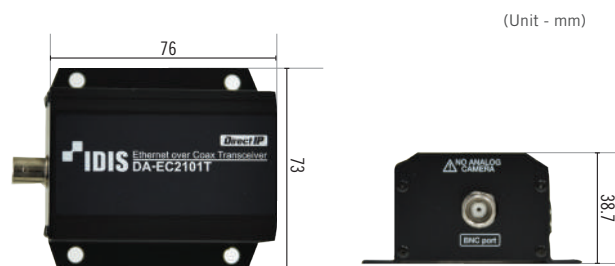
- Makes it possible to install Full HD network cameras using existing coaxial cables.
- Supports PoE (IEEE 802.3af) : DA-EC2101R
- Supports PoE (IEEE 802.3af, IEEE 802.3at) : DA-EC2101T
- Supports plug and play without setting up special IP addresses.



SPECIFICATIONS

RJ45 ETHERNET INTERFACE	DA-EC2101R	DA-EC2101T
Connectivity	RJ45, Auto-MDI/MDI-X sensing	RJ45, Auto-MDI/MDI-X sensing
Wire type	CAT5 or better	CAT5 or better
Distance	Up to 100m	Up to 100m
Speed	10/100 BASE Tx, half/full Duplex	10/100 BASE Tx, half/full Duplex
Data throughput	40Mbps	40Mbps
COAX BUILDING WIRING INTERFACE		
Connectivity	BNC, RG-59/U or similar	BNC, RG-59/U or similar
Impedance	75 Ω	75 Ω
Distance	up to 800m	-
Camera Power In	5.5W / 8W @ 800m (PoE/ DC Input)	-
GENERAL		
Dimensions(W x H x D)	73mm x 38.7mm x 76mm (2.87" x 1.52" x 3")	73mm x 38.7mm x 76mm (2.87" x 1.52" x 3")
Weight	165g (0.36lb)	155g (0.34lb)
Operation Temperature	0°C ~ +50°C	0°C ~ +50°C
Power Input	48V DC / PoE (IEE802.3af)	48V DC / DA-EC2101R/ DA-EC2104R
Power Consumption	31.2W	31.2W
Approvals	FCC, CE, KC	FCC, CE, KC

DIMENSIONS



Ethernet over Coax (EoC) Receiver

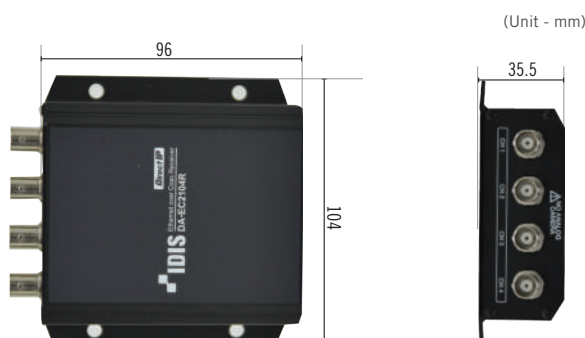
DA-EC2104R

- Makes it possible to install Full HD network cameras using existing coaxial cables.
- Supports plug and play without setting up special IP addresses.

SPECIFICATIONS

RJ45 INTERFACE	
Connectivity	RJ45, Auto-MDI/MDI-X sensing
Wire type	CAT5 or better
Distance	Up to 100m
Speed	10/100/1000 BASE T, half/full Duplex
Data throughput	160Mbps
COAX BUILDING WIRING INTERFACE	
Connectivity	BNC, RG-59/U or similar
Impedance	75 Ω
Distance	up to 400m
Camera Power In	10W @ 400m (DC Input)
GENERAL	
Dimensions (W x H x D)	104mm x 35.5mm x 96mm (4.1" x 1.38" x 3.78")
Weight	235g (0.52lb)
Operation Temperature	0°C ~ +50°C
Power Input	48V DC
Power Consumption	60W
Approvals	FCC, CE, KC

DIMENSIONS



Gigabit Fiber Optic Media Converter

DA-MC1101

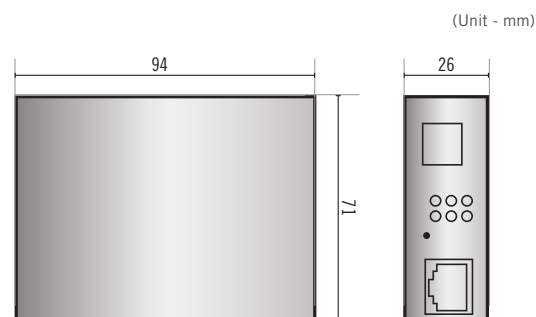
- Supports automatic negotiation feature
- Supports automatic MDI / MDI-X detection
- Supports LED status indicators
- Mode switching using DIP switches



SPECIFICATIONS

RJ45 ETHERNET INTERFACE	
Connectivity	RJ45, Auto-MDI / MDI-X sensing
Wire Type	CAT5 or better
Distance	Up to 100m
Speed	10/100/1000 Base-T
SFP SLOT INTERFACE	
Connectivity	SFP slot
Wire Type	Fiber optic
Speed	1000BASE-LX, 1000BASE-SX
GENERAL	
Dimensions(W x H x D)	71mm x 26mm x 94mm (2.8" x 1.0" x 3.7")
Weight	160g (0.35lbs)
Operation Temperature	0°C ~ +50°C (32°F ~ 122°F)
Power Input	5V DC 1.6A
Power Consumption	3.4W
Approvals	FCC, CE, KC

DIMENSIONS



SFP Transceiver

FTLF1318P3BTL FTLF8519P3BNL

FTLF1318P3BTL

- Up to 10 km on 9/125µm SMF
- Up to 1.25Gb/s bi-directional data links
- Hot-pluggable SFP footprint
- 1310nm Fabry-Perot laser transmitter
- Compatibility with DH Series and DA-MC1101

FTLF8519P3BNL

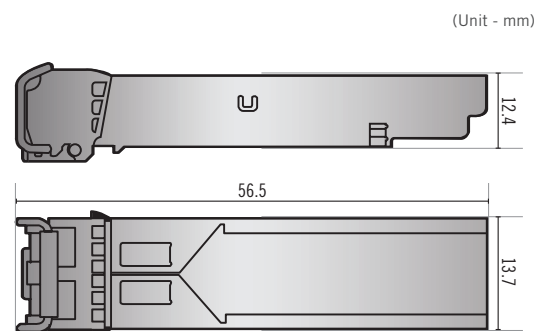
- Up to 500m on 50/125µm MMF, 300m on 62.5/125µm MMF
- Up to 2.125 Gb/s bi-directional data links
- Hot-pluggable SFP footprint
- 850nm Oxide VCSEL laser transmitter
- Compatibility with DH Series and DA-MC1101



SPECIFICATIONS

FTLF1318P3BTL	
Optical Center Wavelength	1265 to 1600 nm
Output Opt. Power	-9.5 to -3 dBm
Average RX Sensitivity@1.25Gb/s	-19
Data Rate	1.062 Gb/s to 1.25 Gb/s
FTLF8519P3BNL	
Optical Center Wavelength	830 to 860 nm
Output Opt. Power	-9 to -2.5 dBm
Average RX Sensitivity@2.125Gb/s	-17
Data Rate	1.062Gb/s, 1.25Gb/s, 2.125Gbps
GENERAL	
Dimensions (W x H x D)	13.7mm x 12.4mm x 56.6mm (0.5" x 0.5" x 2.2")
Weight	17.5g (0.04lbs)
Operation Temperature	0°C ~ +85°C (32°F ~ 185°F)
Approvals	FCC, CE, KC

DIMENSIONS



CAMERA ACCESSORIES



CAMERA MOUNTS

Type	Model	Dimensions (mm)	Weight	Relevant Models
MOUNT ADAPTER	DA-MA2000	 Ø144.6mm x 56.3mm(L) (Ø5.7"x 2.2"(L))	0.22kg (0.49 lbs)	DA-AP2000, DC-D2233W, DC-D2233WR, DC-D2233WHR, TC-D1222WR
	DA-MA2100	 Ø167.2mm x 70.2mm(L) (Ø6.59" x 2.77"(L))	0.28kg (0.62 lbs)	DC-D1122W, DC-D1122WR, DC-D1123W, DC-D1123WR, DC-D1123WHR, DC-D1223W, DC-D1223WR, DC-D1223WHR, DC-D1323WHR, DC-D2233WHX, DC-D3833WHR, DC-Y1513, DC-Y1513W
WALL MOUNT	DA-WM2050	 224.0mm(L) x 111.5mm(W) x 78.5mm(H) (8.82"(L) x 4.39"(W) x 3.1"(H))	0.61kg (1.35 lbs)	DA-MA2000, DA-MA2100
	DA-WM2150	 150mm(L) x 130mm(W) x 40mm(H) (5.91"(L) x 5.12"(W) x 1.58"(H))	0.25 kg (0.56 lbs)	DC-D1111, DC-D1212R, DC-D2233, DC-D2233R, DC-D2212R, TC-D1222R
	DA-WM1400	 267mm(L) x 116mm(W) x 140mm(H) (10.52"(L) x 4.57"(W) x 5.52"(H))	1.3 kg (2.87 lbs)	DA-BM1100
	DA-WM1500	 300mm(L) x 80mm(W) x 133.2mm(H) (11.82"(L) x 3.15"(W) x 5.25"(H))	0.27 kg (0.6 lbs)	DA-BH1100
CEILING MOUNT	DA-CM1300	 390mm(L) x 140mm(W) x 116mm(H) (15.36"(L) x 5.52"(W) x 4.57"(H))	0.95 kg (2.1 lbs)	DA-BM1100
	DA-CM2050	 Ø144.6mm x 308.1mm~518.1mm(L) (Ø5.7" x 12.13"~20.4"(L))	0.55kg (1.22 lbs)	DA-MA2000, DA-MA2100
POLE MOUNT	DA-LM2000	 100mm(L) x 45mm(W) x 110mm(H) (3.94"(L) x 1.78"(W) x 4.34"(H))	0.3 kg (0.67 lbs)	DA-WM2050, DA-JB2000
	DA-LM1100	 156mm(L) x 136mm(W) x 50mm(H) (6.15"(L) x 5.36"(W) x 1.97"(H))	1 kg (2.21 lbs)	DA-WM1400

Type	Model		Dimensions (mm)	Weight	Relevant Models
CORNER MOUNT	DA-RM2000		165mm(L) x 55mm(W) x 110mm(H) (6.5"(L) x 2.17"(W) x 4.34"(H))	0.47 kg (1.04 lbs)	DA-WM2050, DA-JB2000
	DA-RM1100		343mm(L) x 140mm(W) x 196mm(H) (13.51"(L) x 5.52"(W) x 7.72"(H))	2.8 kg (6.18 lbs)	DA-WM1400
FLUSH MOUNT	DA-FM1300		Ø210mm x 75mm(L) (Ø8.27" x 2.96"(L))	0.65 kg (1.44 lbs)	DC-D1122, DC-D1122R, DC-D1123, DC-D1123R, DC-D1223, DC-D1223R, DC-D1323R, DC-D1122W, DC-D1122WR, DC-D1123W, DC-D1123WR, DC-D1123WHR, DC-D1223W, DC-D1223WR, DC-D1223WHR, DC-D1223WX, DC-D1323WHR, DC-D2233, DC-D2233R, DC-D2233W, DC-D2233WR, DC-D2233WHR, DC-D2233WHX, TC-D1222R, TC-D1222WR
ADAPTER PLATE	DA-BM1100		Ø155mm x 50mm(L) (Ø6.11" x 1.97"(L))	0.2 kg (0.45 lbs)	DC-S Series
	DA-AP2000		Ø165mm x 15mm(L) (Ø6.5" x 0.6"(L))	0.2 kg (0.45 lbs)	DC-D1122, DC-D1122R, DC-D1123, DC-D1123R, DC-D1223, DC-D1223R, DC-D1323R
JUNCTION BOX	DA-JB2000		90mm(L) x 45mm(W) x 90mm(H) (3.55"(L) x 1.78"(W) x 3.55"(H))	0.2 kg (0.45 lbs)	DC-T Series, TC-T1222WR
	DA-JB2100		152.3mm(L) x 150.5mm(W) x 37.0mm(H) (6"(L) x 5.93"(W) x 1.46"(H))	0.32 kg (0.71 lbs)	DC-D2233W, DC-D2233WR, DC-D2233WHR, TC-D1222WR
	DA-JB2200		Ø155.0mm x 33.0mm(L) (Ø6.11" x 1.3"(L))	0.35kg (0.78 lbs)	DC-D1122W, DC-D1122WR, DC-D1123W, DC-D1123WR, DC-D1123WHR, DC-D1223W, DC-D1223WR, DC-D1223WHR, DC-D2233WHX, DC-D3833WHR, DC-Y1513, DC-Y1513W
BOX HOUSING	DA-BH1100		438.1mm(L) x 147.2mm(W) x 107.3mm(H) (17.25"(L) x 5.8"(W) x 4.23"(H))	1.2 kg (2.65 lbs)	DC-B Series
SUN SHIELD	DA-DH1100		Ø211.9mm x 104mm(L) (Ø8.35" x 4.1"(L))	0.45 kg (1.0 lbs)	DC-S Series

CONFIGURATION TREE

BOX / ZOOM



DC-B Series
DC-Z Series
TC-B Series



Box Housing
(DA-BH1100)



Wall Mount
(DA-WM1500)

BULLET



DC-T Series
TC-T Series



Junction Box
(DA-JB2000)



Pole Mount
(DA-LM2000)



Corner Mount
(DA-RM2000)

PTZ



DC-S Series



Pendant Adapter
(DA-BM1100)



Sun Shield
(DA-DH1100)



Ceiling Mount
(DA-CM1300)



Wall Mount
(DA-WM1400)



Pole Mount
(DA-LM1100)



Corner Mount
(DA-RM1100)

DOME



Wall Mount
(DA-WM2150)

DC-D1111, DC-D1212R, DC-D2212R
DC-D2233, DC-D2233R, TC-D1222R



DC-D2233W, DC-D2233WR
DC-D2233WHR, TC-D2233WR



DC-D1122, DC-D1122R
DC-D1123, DC-D1123R
DC-D1223, DC-D1223R
DC-D1323R, DC-D1223WX



DC-D1122W, DC-D1122WR
DC-D1123W, DC-D1123WR
DC-D1123WHR, DC-D1223W,
DC-D1223WR, DC-D1223WHR,
DC-D1323WHR



DC-D2233WHX, DC-D3833WHR,
DC-Y1513, DC-Y1513W



Adapter Plate
(DA-AP2000)



Mount Adapter
(DA-MA2000)



Ceiling Mount
(DA-CM2050)



Wall Mount
(DA-WM2050)



Pole Mount
(DA-LM2000)



Corner Mount
(DA-RM2000)



Mount Adapter
(DA-MA2100)



DC-D2233W, DC-D2233WR
DC-D2233WHR, TC-D2233WR



Junction Box
(DA-JB2100)



DC-D1122W, DC-D1122WR
DC-D1123W, DC-D1123WR DC-D1123WHR,
DC-D1223W, DC-D1223WR DC-D1223WHR,
DC-D2233WHX, DC-D3833WHR, DC-D1223WX
DC-Y1513, DC-Y1513W



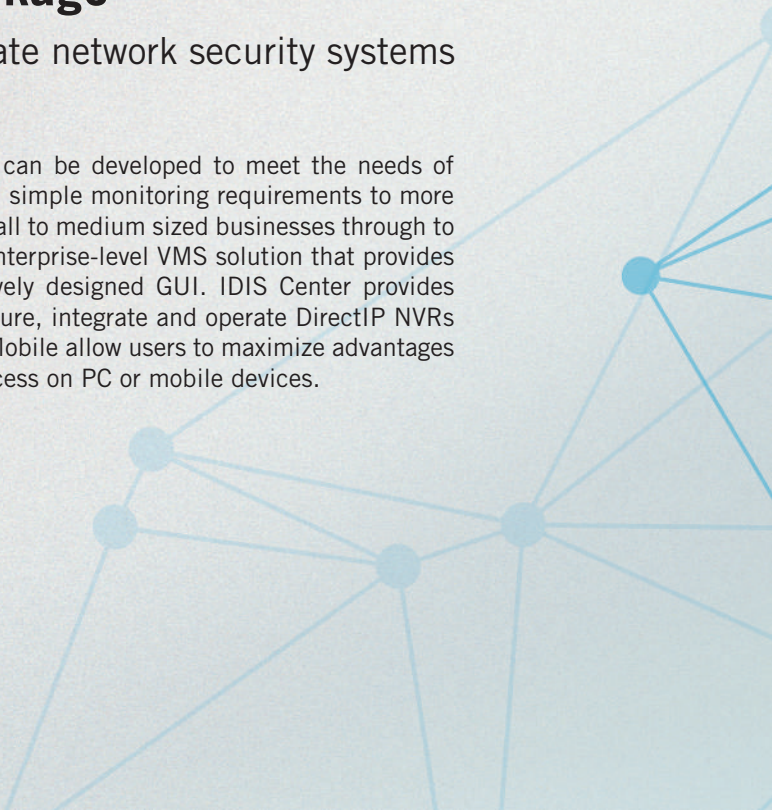
Junction Box
(DA-JB2200)

SOFTWARE SOLUTIONS

Powerful and convenient package

of software solutions to build and operate network security systems

IDIS provides complete network software solutions that can be developed to meet the needs of user applications from single location to multi-sites, from simple monitoring requirements to more complex interactive communication systems and from small to medium sized businesses through to multi-national. IDIS Solution Suite is a fully integrated enterprise-level VMS solution that provides unparalleled flexibility, control and security with intuitively designed GUI. IDIS Center provides users with remote management software to install, configure, integrate and operate DirectIP NVRs without licensing fees or complexity. IDIS Web and IDIS Mobile allow users to maximize advantages of full HD video surveillance, connectivity and remote access on PC or mobile devices.





INTEGRATED VMS SOLUTION

IDIS SOLUTION SUITE



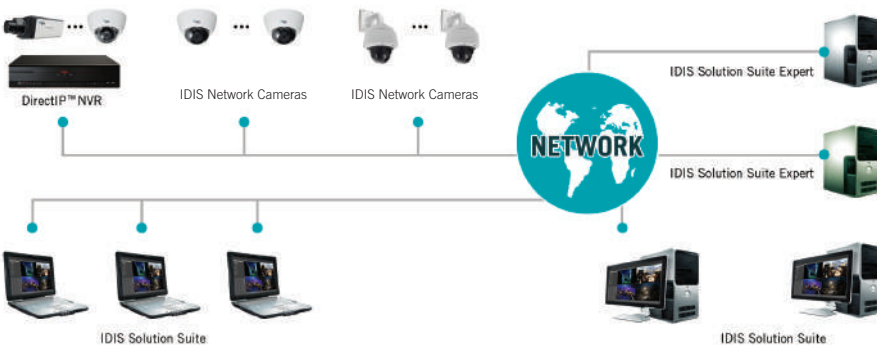
IDIS Solution Suite is a highly scalable and fully integrated network video surveillance solution

IDIS Solution Suite is suitable for both large enterprise customers as well as smaller surveillance operations for home-security and small business. IDIS Solution Suite Compact provides an intuitive GUI for the installers unfamiliar with IT networks and the powerful recording features are available without license fees.

IDIS Solution Suite Expert provides a general-purpose network video recording application that will satisfy a wide range of customer requirements without complicated licensing structures.

IDIS Solution Suite Expert is the perfect solution for project-based surveillance rollouts as it optionally integrates and transforms to exact customer requirements. Born out of IDIS's deep understanding of the surveillance market and a huge range of customer applications, IDIS Solution Suite Expert is exceptionally scalable and flexible. Using proven IDIS products including megapixel cameras and keyboards, the system is expandable to ensure a future proof surveillance solution.

NETWORK CONFIGURATION OF IDIS SOLUTION SUITE EXPERT



NETWORK CONFIGURATION OF IDIS SOLUTION SUITE COMPACT



SPECIFICATIONS

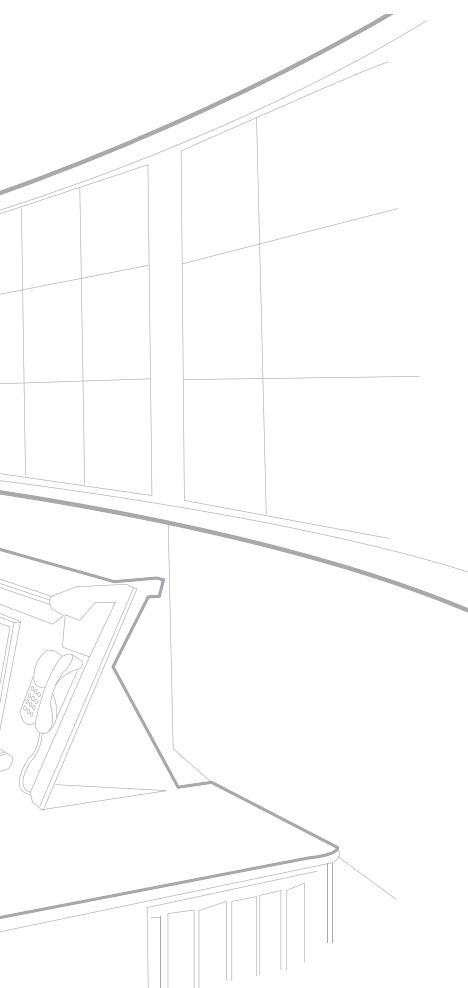
	IDIS Solution Suite Compact	IDIS Solution Suite Expert
INSTALLATION SITE		
Home Security	○	
Small Office	○	○
Small to Medium Sized Solution		○
Enterprise Solution		○
NUMBER		
Number of cameras per server	32	256
Number of servers per site	1	64
Max. Number of concurrent clients	1	64
Number of devices per site	32 ⁽¹⁾	1024 ⁽¹⁾
DEVICE		
Automatic Device Scan	○	○
IDIS DVR/NVR support	X	○
Third party IP camera support	X	○
ONVIF camera support	X	○
CLIENT		
Multi-live streaming	○	○
Two-way audio support	○	○
Audio Broadcast support	○	○
Panel docking support	○	○
Event Monitoring	○	○
Web browser add	X	○
IDIS Solution Suite Mobile support	X	○
MAP support	X	○
NK-1100(network keyboard) support	X	○
POS text-in Viewer	X	○
RECORDING, PLAYBACK, SEARCHING		
Max. Recording Storage	5000GB	Unlimited ⁽²⁾
Time-lapse Recording support	○	○
Pre-event Scheduling Support	○	○
Event Scheduling Support	○	○
Time-segment Recording	○	○
Audio Recording	○	○
Print image	○	○
Export image / video	○	○
Bookmark function	X	○
POS transaction Search	X	○
ADMINISTRATION		
Device health monitoring	○	○
Device check	X	○
Windows User Authentication	X	○
EVENT HANDLING		
Live pop-up	X	○
Event acknowledgement	X	○
Email Notification	X	○
Move PTZ on event	X	○
ADDITIONAL FEATURES		
Video Wall Service	X	Optional ⁽³⁾
Federation Service	X	Optional ⁽³⁾
Backup Service	X	Optional ⁽³⁾
Failover Service	X	Optional ⁽³⁾
Streaming Service	X	○ ⁽⁴⁾

(1) Number of registrable devices (IDIS Solution Suite Compact : IP Camera, Encoder only)

(2) Up to 50,000GB per HDD

(3) Available upon purchasing license

(4) Channel Expansion is available upon purchasing license



IDIS CENTER

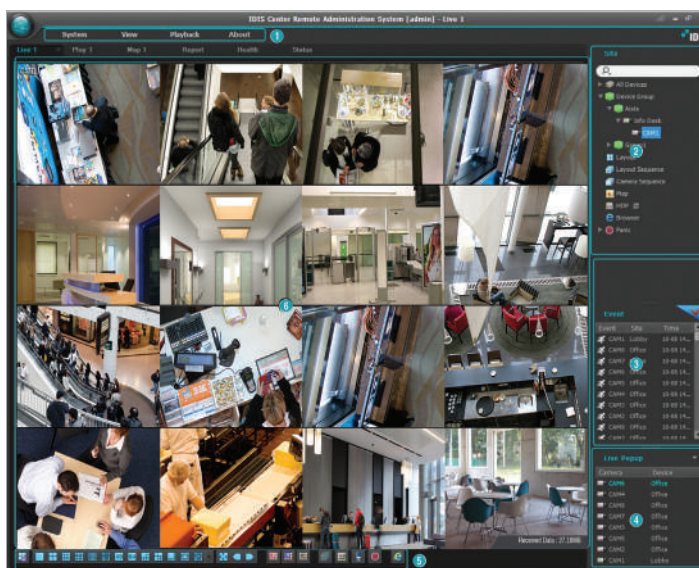


IDIS Center provides customers with plug-and-play management software to install and operate network cameras and network video recorders

IDIS Center is a central management software solution that supports live monitoring, video playback as well as advanced management tools including event monitoring, e-maps and condition monitoring of devices.

KEY FEATURES

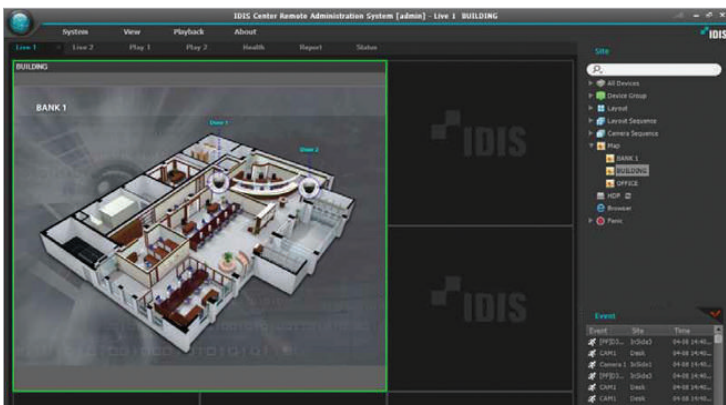
- Remote surveillance of live videos and remote playback of video recordings
- Real-time notification of detected events and remote monitoring of event videos
- Panic recording of live videos and playback of panic recordings
- Registration of up to 1,024 devices
- Simultaneous remote software upgrades and multiple system setup
- Displays device's system logs
- Monitoring live e-map
- SSL support for security
- Authority settings by user groups for security
- Intuitive and user-oriented GUI
- Supports Removable HDD(SD card) Play
- All live viewing, searches, e-maps and condition monitoring can be executed simultaneously
- by displaying distinctly different panels on four different monitors.



LIVE VIDEOS

Live videos of registered sites can be monitored. IDIS Center program receives videos according to the device's settings and displays live videos. Up to 4 Live panels are supported for monitoring live videos.

- 1 Menu**
Select the menu System, View, Playback and About.
- 2 Site List**
Used to connect to a registered site using drag & drop
- 3 Live Event List**
Shows instant events and callback events of registered devices. Click button and then Emergency Event Panel will be displayed.
- 4 Live Popup List**
Shows the list of current popup screens on IDIS Center.
- 5 Panel Toolbar/Timetable**
Shows toolbar or timetable depending on the panel.
- 6 Panel**
Shows videos or list of the selected tab.



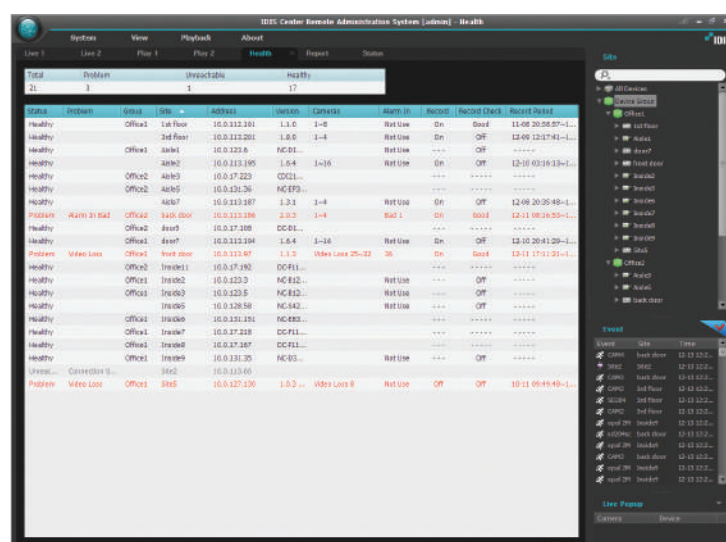
MAP MONITORING

The camera videos of registered devices, events, and status of connection I/O devices can be monitored on a map. Map monitoring supports up to 4 Live panels and Map panels.



SNAP SHOT ON MOTION EVENT

When 'Motion Event Freeze-frame' is clicked in the Panel Toolbar, still images of videos recorded during Event Record Dwell (Event and pre-event) are shown in the Play panel. Recording information of the selected freeze-frame is displayed on the timetable. When user clicks anywhere on the recorded data on the time table, a freeze-frame image of the selected time is shown. Placing the mouse cursor over the freeze-frame brings up a popup viewer screen above the freeze-frame.



SYSTEM STATUS MONITORING

The system status of registered devices can be monitored in realtime. System status monitoring is supported in the Status panel. If a Status tab doesn't exist in the panel tabs, you can add them by selecting New Tab in the System menu and clicking Health. Once Health tab is added, the health monitoring results are automatically displayed.

IDIS WEB



IDIS Web is a program that allows you to view and search video from remote locations over the Internet and can be accessed on a regular web browser such as Internet Explorer. IDIS Web can be downloaded from web browsers in ActiveX format.

KEY FEATURES

- Supports 32 divided screen surveillance
- Controls PTZ, colour, alarm out feature
- Supports 32 divided screen playback
- Supports video back-up with IDIS Player, AVI, BMP
- Supports storage and print-out of current image on screen

CONNECTION METHOD

1. http://IP Address: Port Number

(NVR system's IP address and IDIS Web port number configured under Network > General (Default Value: 12088))

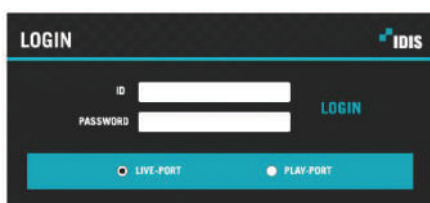
2. http://fen.idisglobal.com/FEN Name

(FEN Name: NVR name configured on the FEN server)

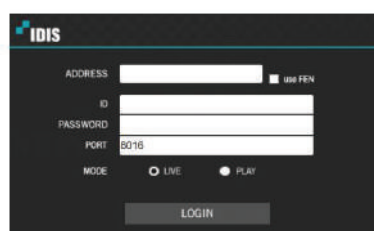
3. http://web.idisglobal.com

(will be prompted to enter NVR's IP address or FEN name registered to the FEN server upon login)

Using connection method 1 and 2

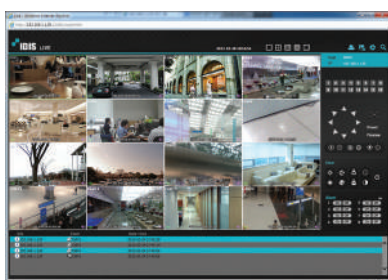


Using connection method 3



IDIS WEB allows you to monitor images from remote locales in real-time

Live Mode



- Screen layout
- PTZ control
- Alarm out control
- Save image
- Two way audio

Play Mode



- Screen layout
- Time-lapse search
- Event log search
- Save as video
- Print the current video screen

MOBILE APP CLIENT

IDIS MOBILE



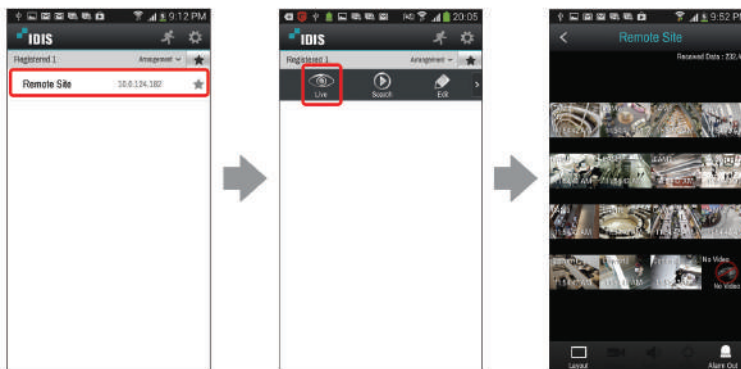
You can access a remote NVR, monitor live video images and search recorded video using iPhone, iPad, Android phone and Android tablet PC anytime from virtually anywhere.

KEY FEATURES

- Supports Android, iOS
- Supports 16 divided screen surveillance
- Controls PTZ, colour, alarm out feature
- Supports playback recorded video
- Supports easy connection to dynamic IP device through FEN Service
- Supports Event Push Notifications

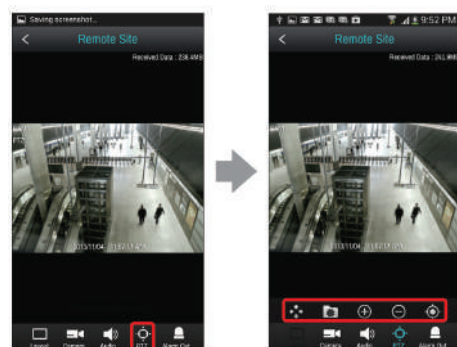
LIVE VIEWING

IDIS Mobile supports seamless viewing of full-HD live streaming video on mobile devices from remote locations and provides 1/4/9/16 split screen monitoring. When the menu appears on the screen, select Live. The live video from the selected device will be displayed on the screen.



REMOTE PTZ CONTROL

IDIS Mobile provides control of PTZ cameras from users' mobile device.



SEARCH & PLAYBACK

Playback recorded video from selected cameras on their search list.



WHAT IDIS DELIVERS:

Complete high-definition (Full HD) and real-time surveillance.

- Easy installation and secure networking through our dedicated DirectIP™ devices.
- Crystal clear Full HD images, without any frame-loss, for live monitoring and recording.
- Compatibility with legacy security systems, external devices and third party protocols.
- One stop shop solution delivering rich connectivity.
- Affordability without license or annual maintenance fees.

COMMERCIAL BUILDINGS

EDUCATION

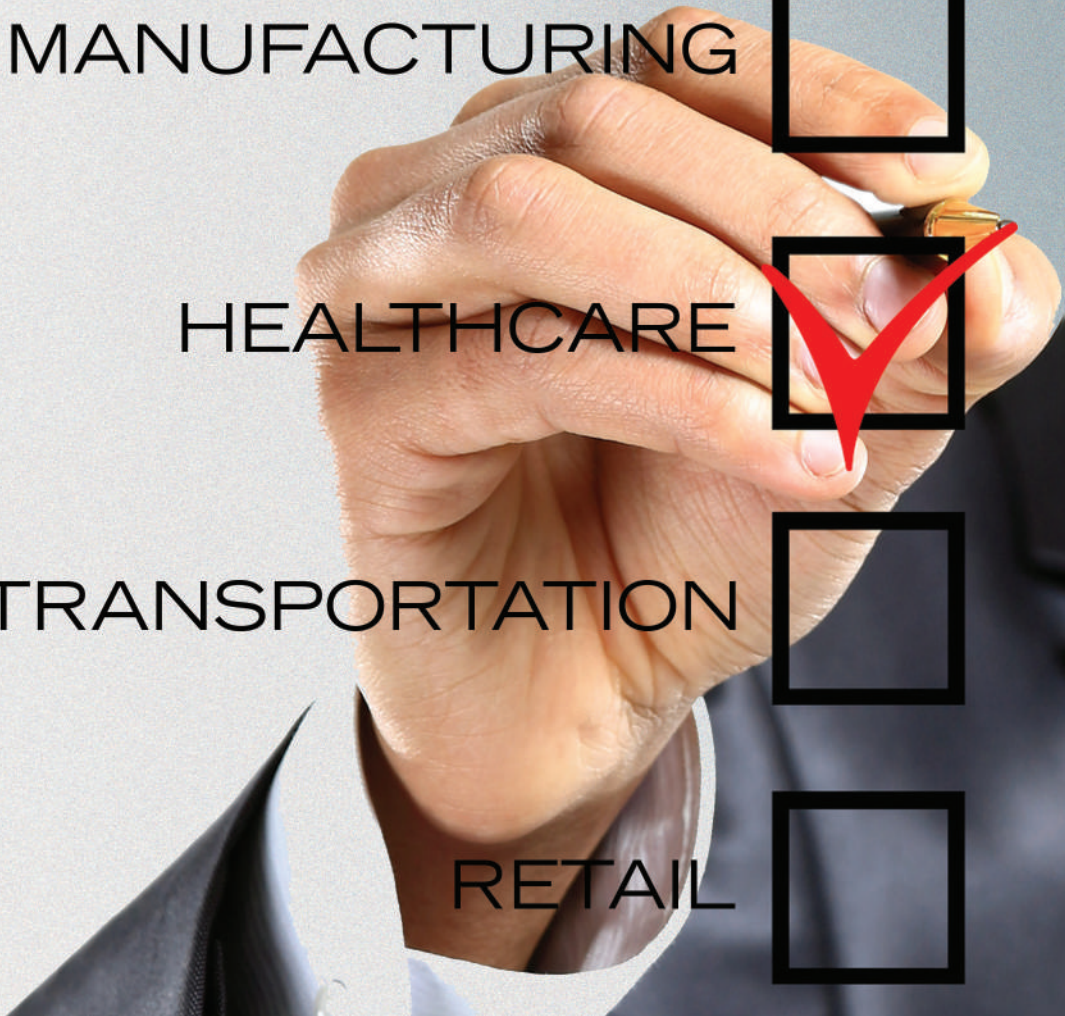
BANKING & FINANCE

MANUFACTURING

HEALTHCARE

TRANSPORTATION

RETAIL





Commercial Building Solutions

OFFICE BUILDINGS

IDIS DirectIP™ surveillance solutions secure people, property and assets to provide a safer office environment.

DirectIP™ solutions reduce risk and lower overall installation cost by leveraging existing IT network infrastructures and allowing businesses to migrate away from legacy and disparate security systems. IDIS next generation surveillance increases operational efficiency and lowers the total cost of ownership through end-to-end solutions.



Integrated surveillance centre

Through a closely integrated structure, comprising of cameras, sensors and alarms DirectIP™ surveillance enables a consolidated view of every event and incident to streamline security operations.

Clear vision even in challenging light

In high-risk areas such as basement car parks, the outstanding low-light functionality and image quality of cameras combined with in-built audio features make DirectIP™ the perfect safeguard against car theft, breakins and other incidents.

Protecting high value assets and data

Integrating with alarm systems such as intruder or fire, DirectIP™ solutions ensure your property and assets are safe in any event. Irrespective of the complexities of your building, real-time streaming linked directly to the control room ensures a rapid response to incidents.

A Valuable asset protection

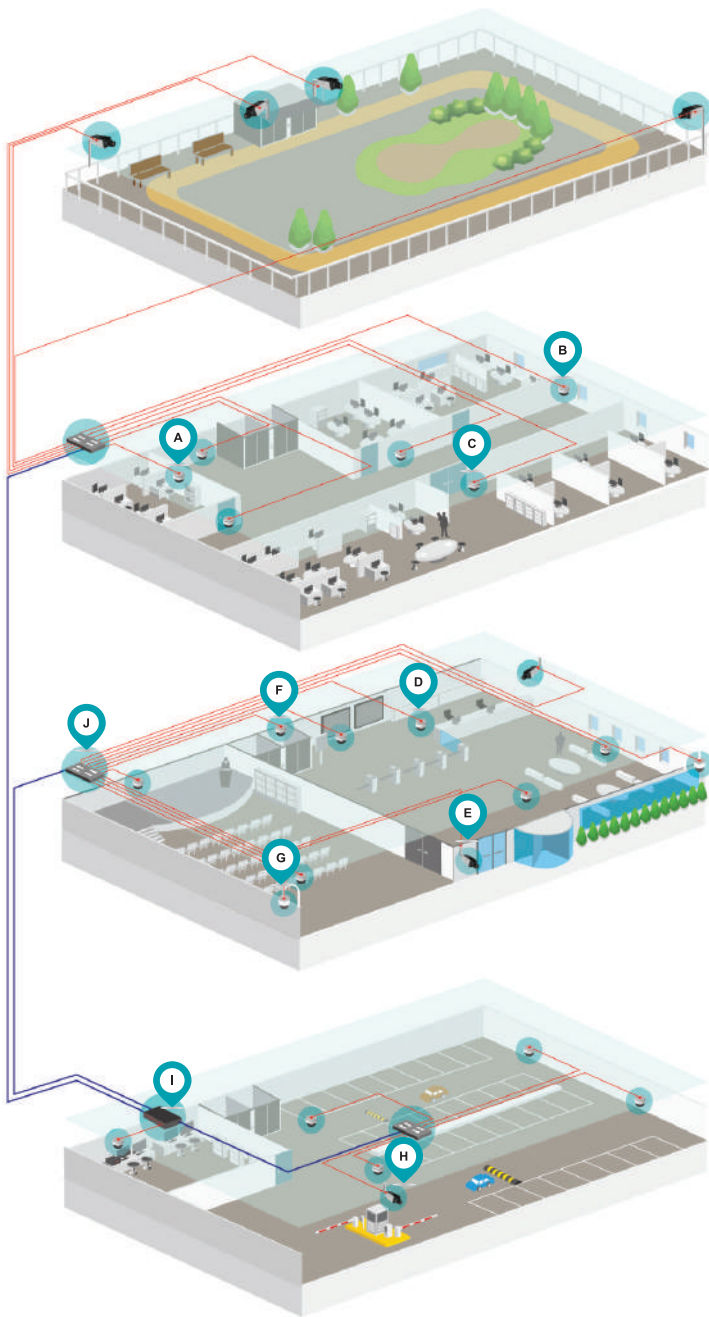


- Integrates with alarm devices
- Reduces risk of crime

B Corridor observation



- Provides a clear image view
- Tracks suspicious behaviour and monitors incidents



-  DirectIP™ PoE Switch
-  DirectIP™ NVR
-  Cat5 / Cat5e (~100Mbps)
-  Cat5e / Cat6 (~1Gbps)

E Entrance observation



- Monitors daily visitors and staff
- Identifies suspicious people

F Elevator monitoring



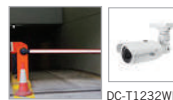
- Identifies suspicious behaviour within an enclosed space
- Monitors accidents

G External security



- Safeguards property and ensures personal safety

H Vehicle identification



- Provides real-time clear view for tracking fast movement and vehicle license plates
- Detects crimes such as hit-and-run accidents and car break-ins

I Video security centre



- Detects, identifies and investigates suspicious individuals or objects throughout the building
- Ensures robust video recording
- Provides event notification to mobile devices
- Allows remote accessibility and data backup

J Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
- Flexible tree topology that can be shared with multiple DirectIP™ NVRs and DirectIP™ cameras
- DirectIP™ switch/port mapping for easy management
- SFP ready for long distance/high speed connection

C Supervision of restricted areas



- Identifies unauthorised people circulating in restricted areas
- Monitors behaviour of authorised staff

D Public safety with Intrusion detection



- Protects staff and visitors from potential violent attacks
- Identifies unauthorised people

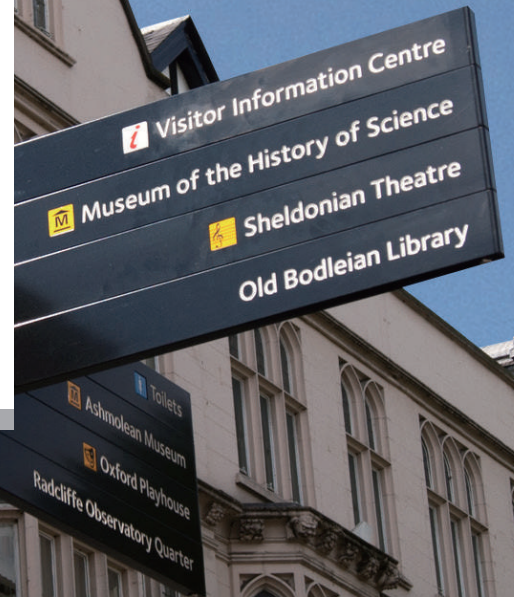


Education Solutions

UNIVERSITIES

Through centralised control and increased situational awareness, DirectIP™ improves campus safety for students, staff and property.

To prevent violence and theft in campuses, DirectIP™ solutions provide centralised monitoring enabling instant verification and a rapid response to events. Improved situational awareness combined with DirectIP™ flexible and scalable HD surveillance increases security while driving improvements in operational efficiencies.



Intelligent observation

Centralised monitoring across campus facilities provides operators with at-a-glance verification of incidents and management of multiple cameras through real-time floor plans and intelligent mapping features. DirectIP™ solutions support remote access and management providing a flexible operational approach for operators and manned guarding teams.

Video conferencing and lectures

Two-way audio and real-time streaming of video provide advanced educational video conferencing enabling remote lectures. Once recorded, lectures are easily managed and downloaded from cloud services to provide a flexible learning experience.

Increased protection of students, staff and assets

Virtual guard tours supplement manned guarding and free up security staff for other duties. Combined with DirectIP™ event alarm management, operators can initiate a prompt response to emergencies and incidents.



Integrated surveillance solution



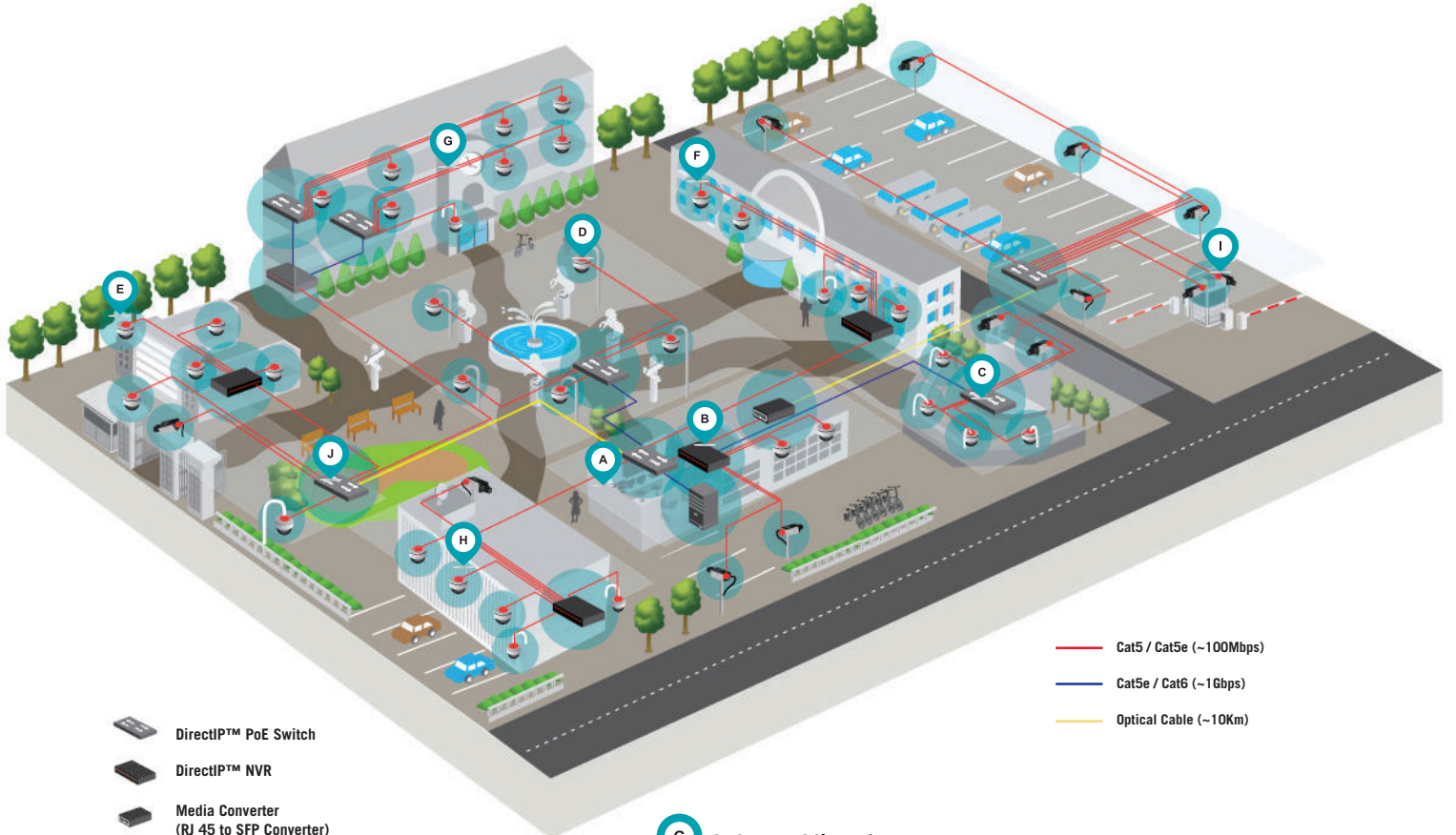
- Controls and manages multiple NVR systems
- Monitors all buildings and external campus areas from a single location
- Supports customised modules such as video wall, streaming services, back-up, failover services and video analytics (IDIS Solution Suite Expert only)
- Leverages existing infrastructure







High quality video recording



- Coordinates emergency response
- Provides real-time HD image recording and monitoring
- Offers both time-lapse and event recording
- Gathers evidence DR-6132P to minimise fraud



-  DirectIP™ PoE Switch
-  DirectIP™ NVR
-  Media Converter (RJ 45 to SFP Converter)
-  PC Server

- Cat5 / Cat5e (~100Mbps)
- Cat5e / Cat6 (~1Gbps)
- Optical Cable (~10Km)

C External public safety



- Reduces property damage
- Monitors acts of vandalism or graffiti
- Allows instantaneous reaction to incidents

D Safeguard walkways



- Identifies incidents and suspects
- Monitors pedestrian flow

E Valuable asset protection



- Prevents violence and theft
- Offers behavioural recognition technology

F Safe and peaceful classrooms



- Protects students and staff from potential violent attacks
- Integrates with alarm devices
- Features a built-in audio interface terminal

G Indoor public safety



- Identifies suspicious objects
- Prevents or deters crime and public disorder

H Reduce goods shrinkage



- Identifies shoplifters and suspicious activity
- Detects removal or loss of items at cafeteria

I Vehicle identification



- Provides real-time clear viewing for tracking fast movement and vehicle license plates
- Detects crimes such as hit-and-run accidents and car break-ins

J Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
- Flexible tree topology that can be shared with multiple DirectIP™ NVRs and DirectIP™ cameras
- DirectIP™ switch/port mapping for easy management
- SFP ready for long distance/high speed connection

K Long distance video communication



- Allows video communication of up to 10Km using optical cable
- Uses DirectIP™ PoE switch with SFP module or RJ45 to SFP converter

BANKS

IDIS DirectIP™ solutions improve protection against threats such as violence and robbery through cutting-edge functionality and tailored features.

As a deterrent to fraud, theft and violence, IDIS utilises its DirectIP™ network infrastructure to improve real-time situational awareness and response times to provide a safer and more secure environment for staff and customers.



ATM integration

Integrated with ATM facilities, DirectIP™ NVRs record transaction data combined with a clear image of users. This ensures the secure operation of ATMs to validate cards and guarantee their sole use by registered cardholders.

Concrete evidence

Whether inside or outside, crime usually occurs within a very short timeframe. DirectIP™ cameras capture every single moment of activity providing instant verification and immediate response by delivering a clear, accurate and time-stamped record of events.

Centralised monitoring

With centralised control environments and a range of unique and tailored features, DirectIP™ management software enables a rapid and decisive response to incidents across entire branch networks and facilities.



Valuable asset protection



- Integrates with alarm devices
- Offers behavioural recognition technology



Persons safety



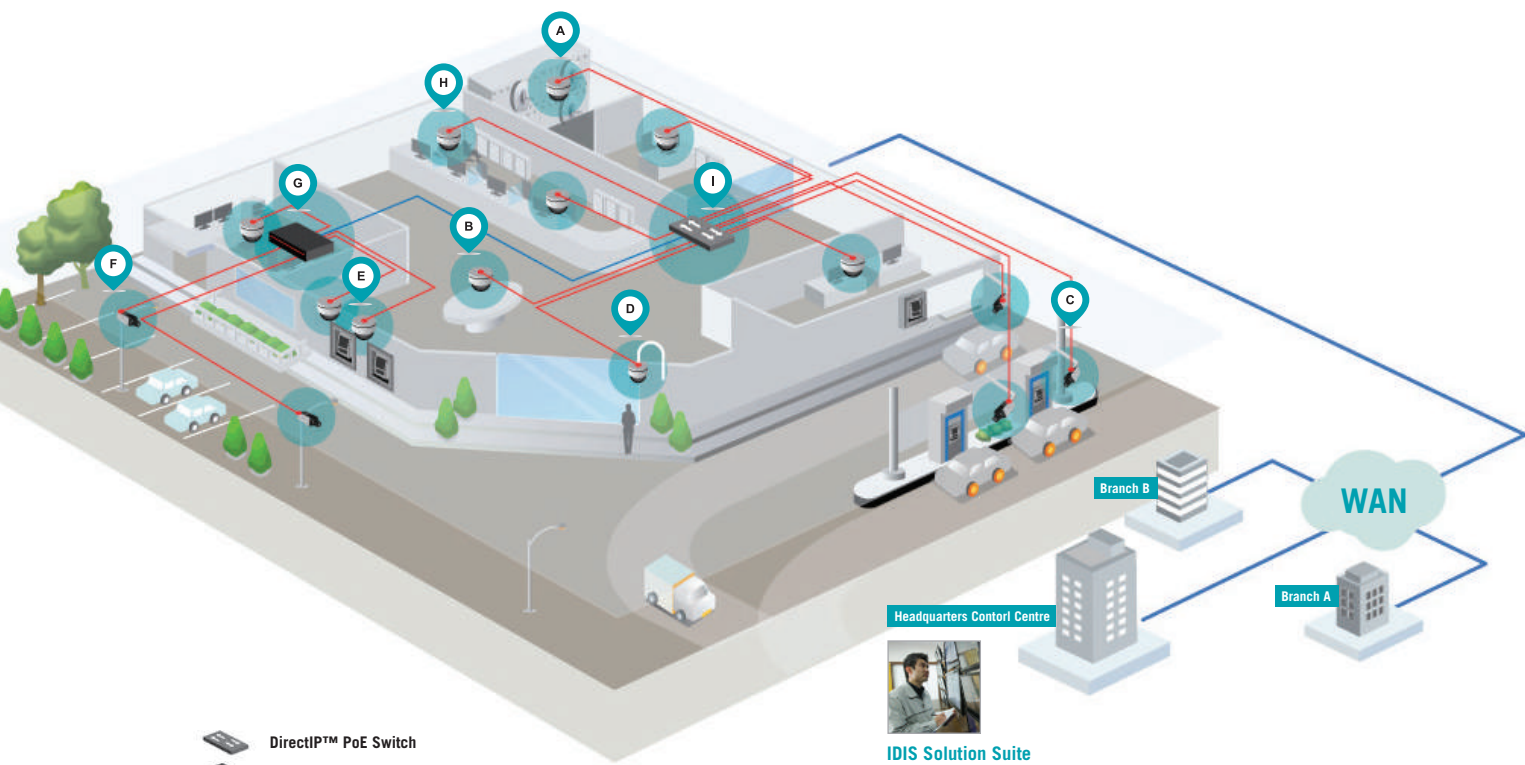
- Provides a clear, wide image view
- Assists crime investigation







Vehicle identification



- Provides real-time clear view enabling tracking of even fast moving objects and vehicle license plates
- Features a built-in audio output interface terminal



-  DirectIP™ PoE Switch
-  DirectIP™ NVR
-  Cat5 / Cat5e (~100Mbps)
-  Cat5e / Cat6 (~1Gbps)

Headquarters Control Centre



IDIS Solution Suite
 Headquarters or central control room can monitor all branches using IDIS Solution Suite.

D Entrance observation



- Identifies potential suspects
- Provides a clear, wide image view

E ATM integration



- Records transaction data with clear user images
- Monitors for multiple threats including fraud, theft and physical attacks

F External security



- Safeguards property and ensures personal safety

G Video surveillance



- Controls and manages all internal and external areas of the premises
- Ensures robust and quality video recording
- Tracks object movement with appropriate alerts
- Enables remote accessibility

H Authorised transaction



- Provides audio integration without extra cabling
- Performs facial identification
- Undertakes fraud checks

I Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
- Flexible tree topology that can be shared with multiple DirectIP™ NVRs and DirectIP™ cameras
- DirectIP™ switch/port mapping for easy management



Manufacturing Solutions

MANUFACTURING PLANTS

The perfect surveillance solution for regulated and hazardous industrial facilities.

With stringent regulation outlining compliance, health and safety as well as security challenges, DirectIP™ provides manufacturing facilities a centralised security operation with an accurate record of events. The capability for a rapid and decisive response to incidents drives operational efficiencies across health and safety, security and quality control departments.



Intelligent observation

At-a-glance verification enables a single operator to check incoming materials, shipments or stock levels and even perform quality assurance procedures.

Automatic alerts and emergency stopping

In hazardous environments, alarm management and integration with third party systems allows centralised control of the entire facility including production lines to improve the health and safety of workers.

Third party scalability

Built on a platform with compatibility in mind, DirectIP™ solutions integrate with third party systems such as access control and intruder detection to provide scalability and a futureproof investment that drives down overall cost for the lifecycle of the entire security operation.

A Video security centre



- Detects, identifies and investigates suspicious individuals or objects throughout the building
- Ensures high-quality and robust video recording
- Features event notification to mobile devices
- Enables remote accessibility

B Monitor production line

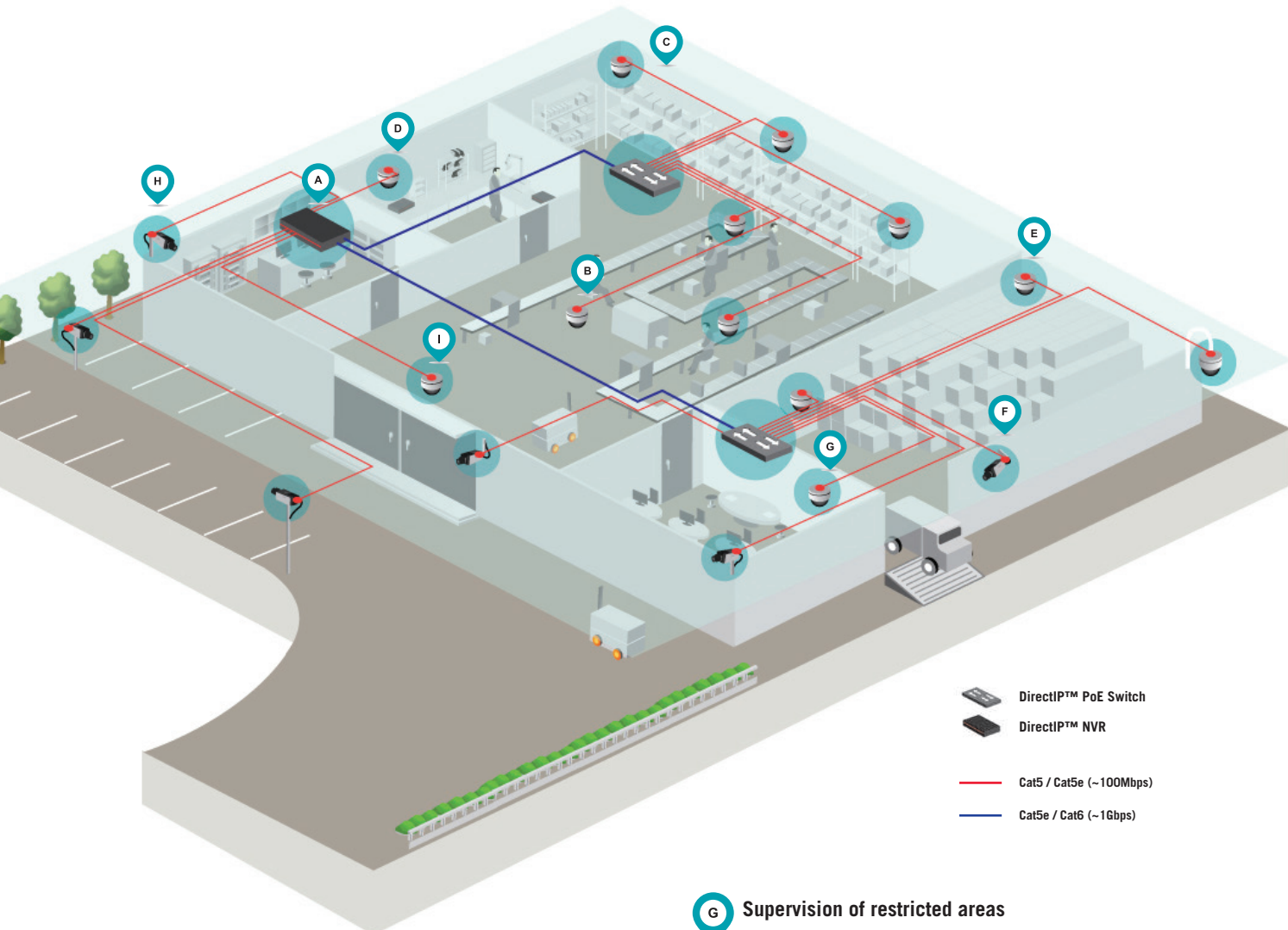






- Detects and responds to incidents quickly
- Identifies unusual activities on the production line
- Ensures the safety of staff

C Stock observation



- Detects removal or loss of items
- Identifies suspicious behaviour
- Tracks item movement



-  DirectIP™ PoE Switch
-  DirectIP™ NVR
-  Cat5 / Cat5e (~100Mbps)
-  Cat5e / Cat6 (~1Gbps)

D Improving quality control



- Monitors and analyses the quality assurance process

E Warehouse observation



- Prevents vandalism and theft
- Facilitates best-practice stock management procedures

F Loading dock observation



- Monitors the loading and unloading of goods

G Supervision of restricted areas



- Identifies unauthorised personnel entering restricted areas
- Monitors behaviour of authorised people

H External security



- Enhances factory perimeter protection
- Helps identify and investigate incidents
- Identifies suspicious vehicles or objects

I Public safety



- Provides wide and clear image view of open areas
- Identifies accidents and potential risks

J Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
- Flexible tree topology that can be shared with multiple DirectIP™ NVRs and DirectIP™ cameras
- DirectIP™ switch/port mapping for easy management
- SFP ready for long distance/high speed connection



Healthcare Solutions

HOSPITALS

IDIS DirectIP™ solutions increase protection, reduce risk and provide peace-of mind for staff and patients.

With increasing concerns for employee and patient safety combined with complex environments and stringent regulatory compliance, the security challenges facing hospitals are significant. DirectIP™ solutions deliver real-time awareness of staff, patients, visitors and high-value assets enabling a rapid response to incidents before an emergency arises and as a result, improves patient satisfaction and drives down operational cost.



Effective emergency room monitoring

High-definition networked surveillance cameras can be leveraged to support patient care while real-time monitoring notifies staff instantly when a patient requires urgent assistance.

High-definition surveillance

DirectIP™ surveillance cameras provide crystal-clear images allowing operators to monitor and track patient and visitor movement across the entire hospital, thus preventing unauthorised access to restricted areas while supporting fast detection and investigation of crime.

Enhanced surgical environment

Stable and high-resolution DirectIP™ cameras capture footage to provide a repository of surgical video for training and education purposes as well as post-operative care. While an accurate and time stamped record of events safeguards against potentially fraudulent insurance claims.

A External Security



DC-S1263WH DC-T1232WR

- Safeguards the hospital's property and ensures personal safety

B Corridor observation



DC-D2233 DC-B1203

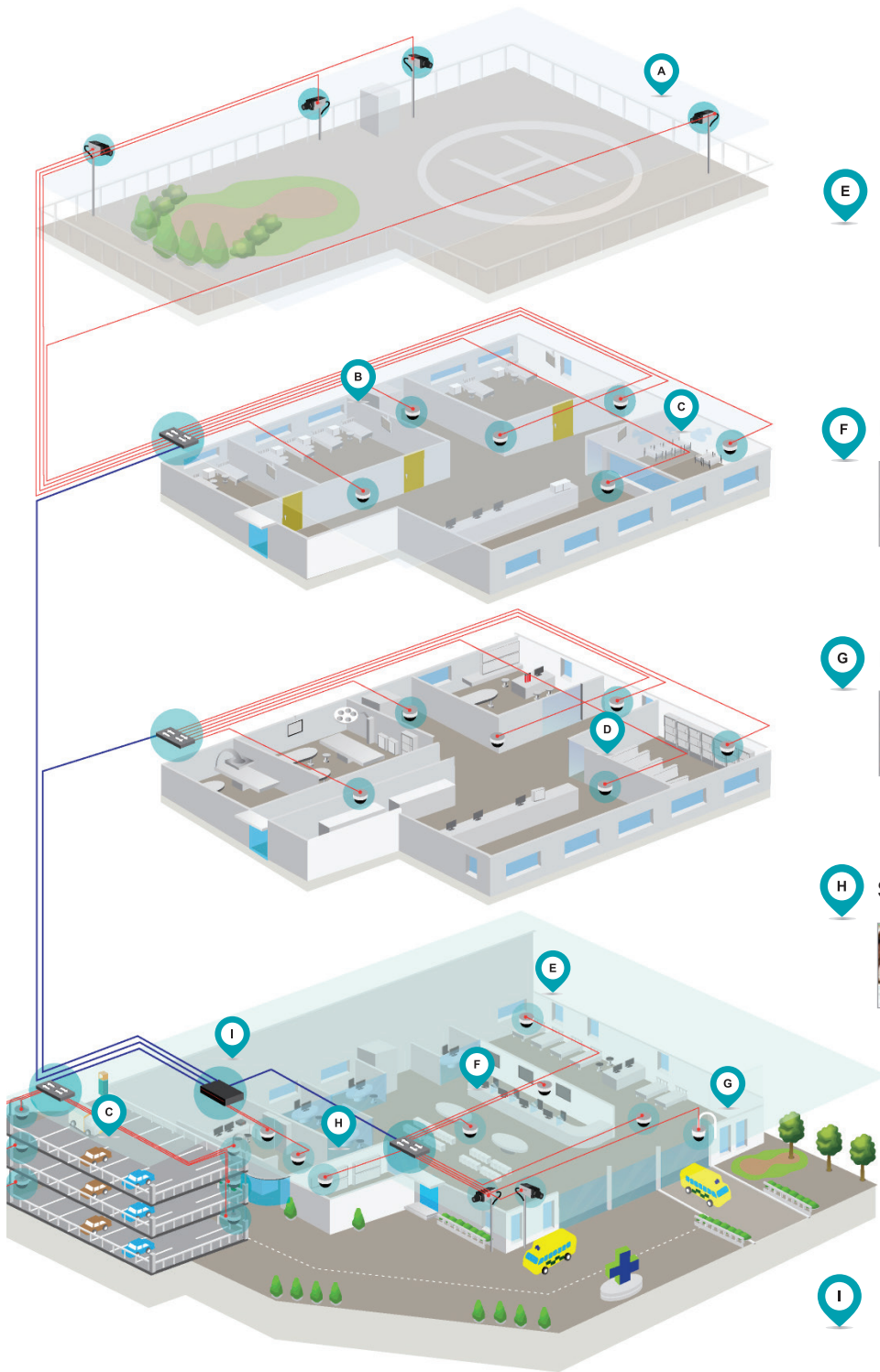
- Providing a clear image view
- Tracking suspicious behaviour and monitoring incidents





C Child protection



DC-D2233WR

- Provides peace-of-mind and protection from potential personal threats
- Offering an accurate time stamped record and events



-  DirectIP™ PoE Switch
-  DirectIP™ NVR
-  Cat5 / Cat5e (~100Mbps)
-  Cat5e / Cat6 (~1Gbps)

D Corridor observation



- Protects staff from potential violent attacks
- Monitors both audio and video
- Integrates with alarm devices

E Emergency recognition



- Monitors "at risk" patients
- Prevents and restricts unauthorised access

F Emergency recognition



- Provides wide and clear imageview of open areas
- Identifies accidents and potential risks

G Entrance observation



- Controls pedestrian traffic flow in busy areas
- Allows instantaneous reaction to incidents

H Supervision of controlled areas



- Prevents potential theft such as prescription drugs
- Monitors personnel responsible for drugs

I Video security centre



- Controls and manages all internal and external areas of a hospital
- Ensures high quality and robust video recording
- Reports security alerts and hazards and protects against false accident claims
- Features event notification to mobile devices

J Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
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- DirectIP™ switch/port mapping for easy management
- SFP ready for long distance/high speed connection



Transportation Solutions

AIRPORTS

DirectIP™ solutions provide intelligent surveillance to increase security and improve traffic analysis throughout an airport.

Ensuring the safety of travellers and staff in a busy airport environment is a challenge for security professionals across the globe. DirectIP™ solutions increase security and safety by providing operational efficiencies across passenger checkpoints, terminal areas, duty free shops, baggage screening and parking facilities as well as external areas such as aircraft facilities and operational perimeters.



Intelligent surveillance

Throughout an airport there are many high-risk zones exposed to theft and malicious activity. The DirectIP™ NVR's built in panic recording system ensures operators can real time capture suspicious behaviour and respond before an event turns into a full-blown emergency.

Improved traffic flow

By analysing high-resolution video footage, DirectIP™ greatly assists with managing passenger flow through busy airports and potential bottlenecks such as check-in.

Hangar observation

DirectIP™ megapixel cameras catch even the tiniest of movements arisk of intrusion from unauthorised personnel.



Video security centre



DR-6232P

- Detects, identifies and investigates suspicious individuals or objects throughout the building
- Ensures high-quality and robust video recording
- Features event notification to mobile devices
- Provides compatibility with POS and EAS
- Monitors daily business



Check-in line monitoring



DC-D2233W

- Detects suspicious passengers, baggage or objects
- Offers facial identification technology



Optimise travel capacity

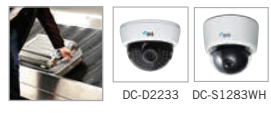


DC-S1263WH DC-D2233W

- Helps investigate lost or missing passengers
- Supports understanding of passenger flow patterns and hotspots
- Improves staff productivity

D

Identifying lost or stolen luggage



- Monitors passenger baggage
- Helps investigate lost or stolen luggage

H

External security



- Enhances airport perimeter protection
- Helps identify and investigate incidents

E

Loss prevention



- Prevents retail theft

I

Supervision of restricted area



- Helps identify unauthorised people circulating in restricted areas
- Monitors authorised staff activities in restricted areas

F

Public safety



- Analyses suspicious behaviour
- Prevents terrorism

J

Vehicle identification



- Provides real-time high resolution images for tracking fast moving objects and vehicle number plates.
- Features a built-in audio output interface terminal

G

Loading dock observation



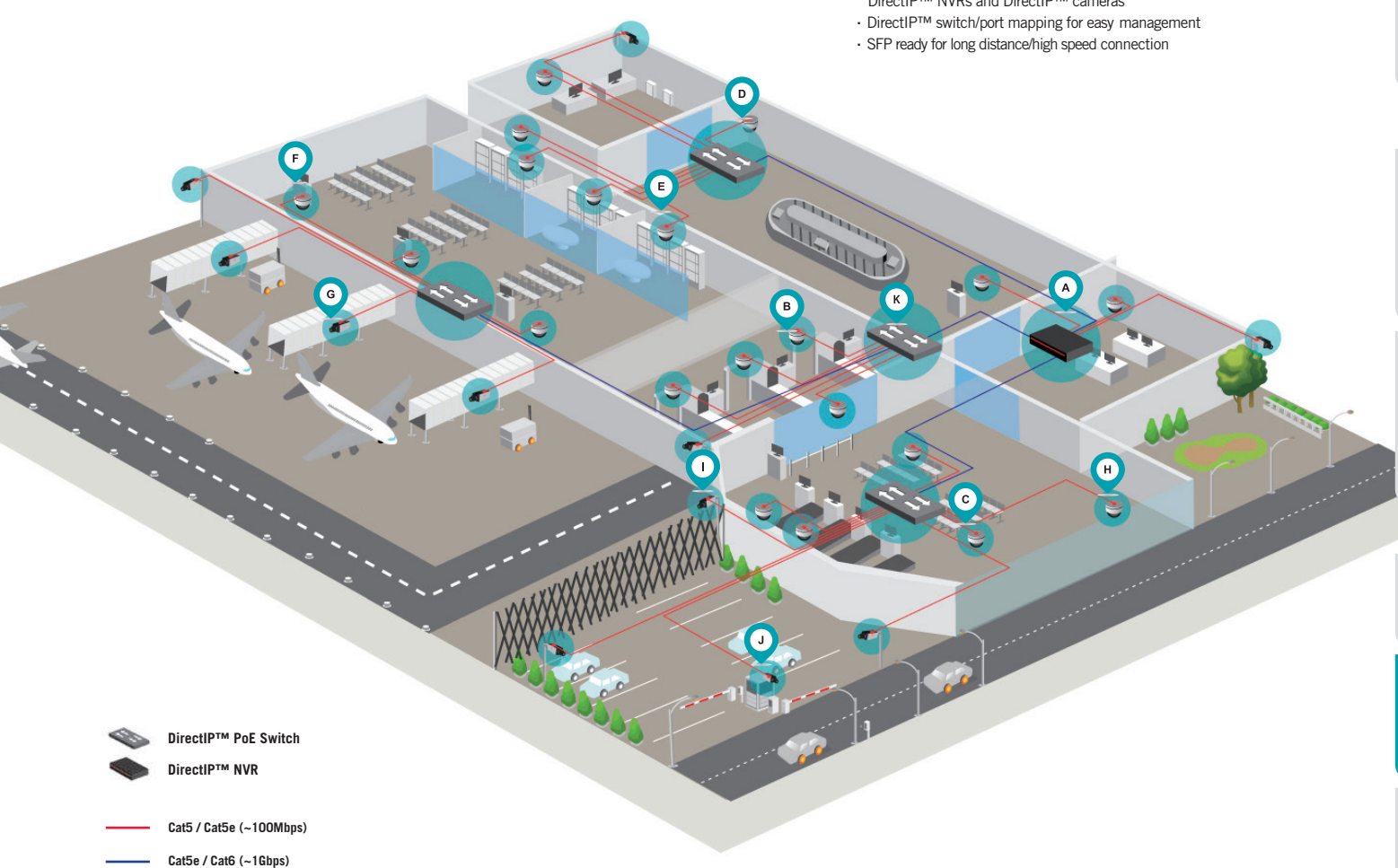
- Monitors the loading and unloading of goods

K

Easy cable connection



- DirectIP™ PoE switch to power DirectIP™ cameras
- Flexible tree topology that can be shared with multiple DirectIP™ NVRs and DirectIP™ cameras
- DirectIP™ switch/port mapping for easy management
- SFP ready for long distance/high speed connection



- DirectIP™ PoE Switch
- DirectIP™ NVR
- Cat5 / Cat5e (~100Mbps)
- Cat5e / Cat6 (~1Gbps)

NVR
 BOX
 DOME
 FISHEYE
 PTZ
 BULLET
 ZOOM
 HD-TVI DVR
 HD-TVI CAMERA
 MONITOR
 NETWORK ACCESSORIES
 CAMERA ACCESSORIES
 SOFTWARE
 SOLUTION GUIDE
 APPLICATIONS



Retail Solutions

SUPERMARKETS

DirectIP™ solutions provide intelligent surveillance to increase security and improve traffic analysis throughout an airport.

With the combined threat of the global economic downturn, shrinkage has never been a bigger concern for loss prevention and security professionals. Using HD resolution shrink cameras, DirectIP™ proactively increases security by reducing shrinkage.



Loss prevention

Real-time live viewing and recording via high-definition cameras are perfect for preventing and detecting shoplifting as well as internal shrinkage in a busy retail environment. DirectIP™ technology supports the role of store detectives and security operatives by enabling a rapid response to even the smallest movement suggesting suspicious behaviour.

POS integration

DirectIP™ NVRs integrate with point of sale devices to gather scanned, printed or recorded data to improve general transaction management and obtain proof of purchase in instances of crime. At the same time, by analysing customer behaviour marketing departments can optimise promotional efforts.

Customer safety and comfort

Through its advanced alarm management, DirectIP™ solutions allow customers to shop safe in the knowledge that help is at hand should they need urgent assistance.



Video security centre



- Detects, identifies and investigates suspicious individuals or objects throughout the building
- Ensures high-quality and robust video recording
- Features event notification to mobile devices
- Provides compatibility with POS and EAS
- Monitors daily business



Monitor checkout service



- Verifies proper checkout procedures are observed
- Determines suspicious transactions



Reduce goods shrinkage



- Identifies shoplifters and suspicious activity
- Detects removal or loss of items



Customer experience



- Verification and investigation of customer incidents quickly and efficiently
- Safeguards property and ensures personal safety



Stock observation



- Monitors staff behaviour
- Facilitates best-practice stock management procedures
- Identifies unauthorised personnel entering restricted areas



Improve marketing performance



- Supports analysis of customer numbers and flow
- Improves product display strategy
- Improves staff productivity



External security



- Safeguards property and ensures personal safety



Protect high risk assets



- Prevents theft of drugs and high value stock
- Integrates with alarm devices



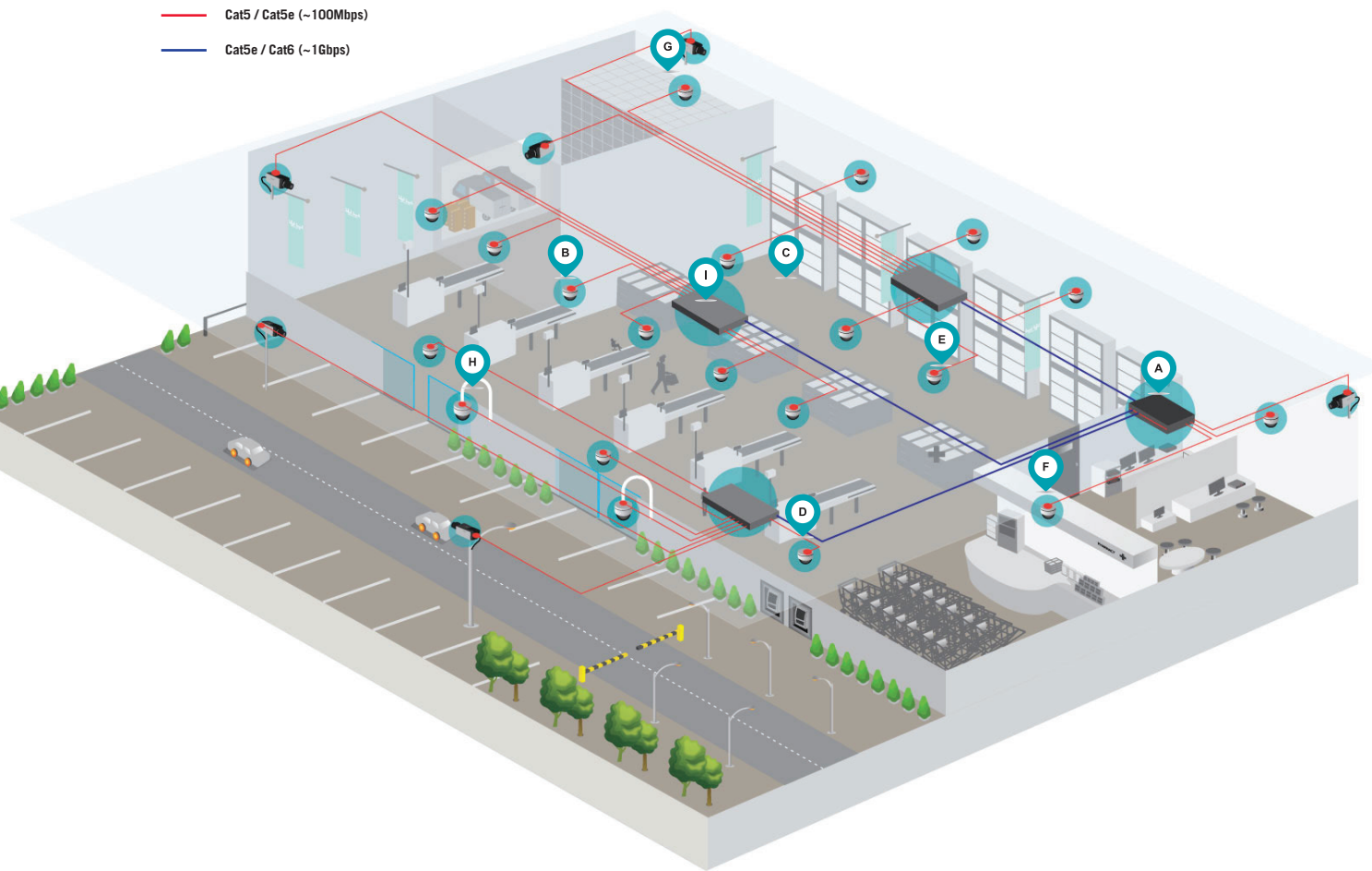
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- DirectIP™ PoE Switch
- DirectIP™ NVR

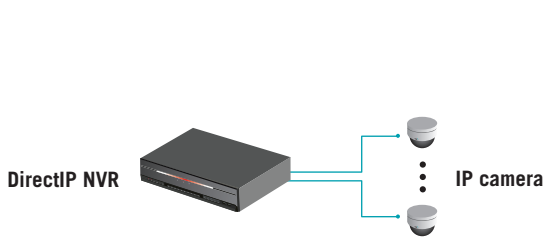
- Cat5 / Cat5e (~100Mbps)
- Cat5e / Cat6 (~1Gbps)



APPLICATIONS

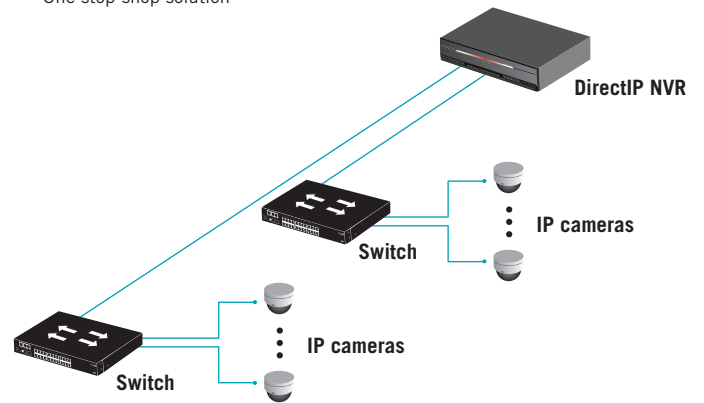
Small business installation

- Easy to install
- HD surveillance
- Affordable video solution



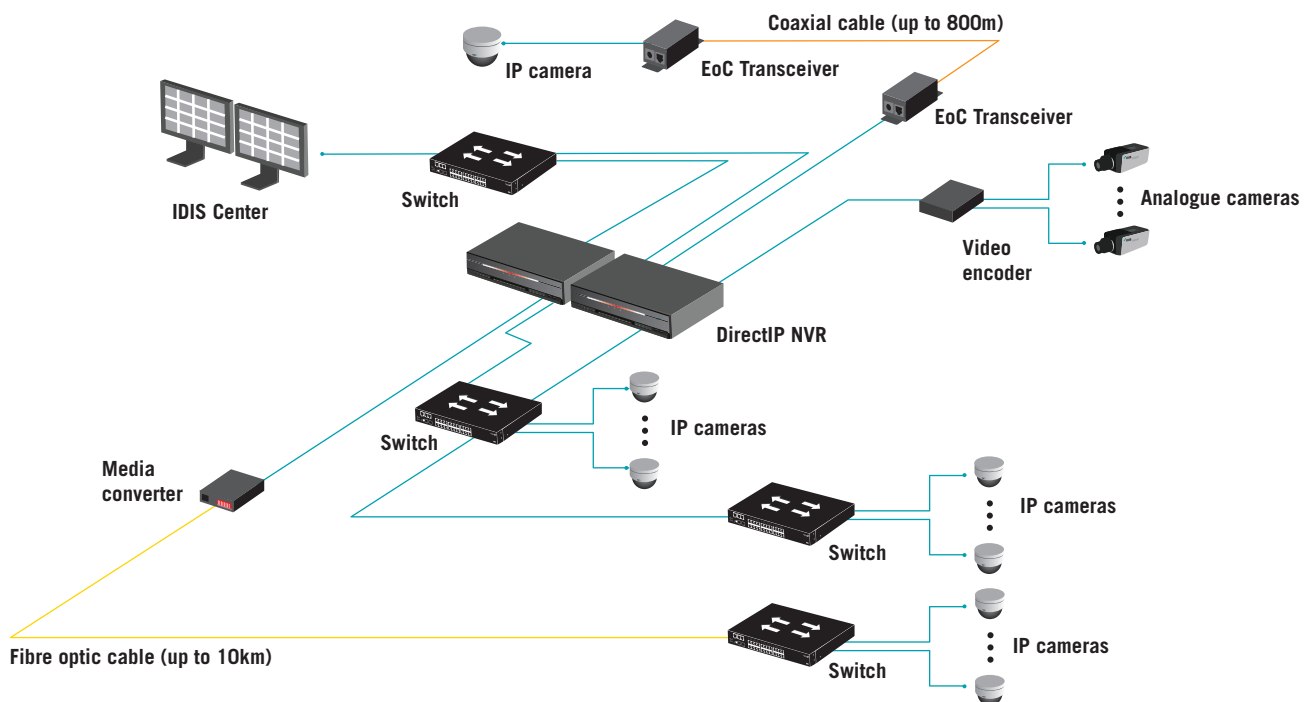
Medium business installation

- High performance
- Scalability with DirectIP™ Gigabit PoE Switch
- Cost effective
- One-stop-shop solution

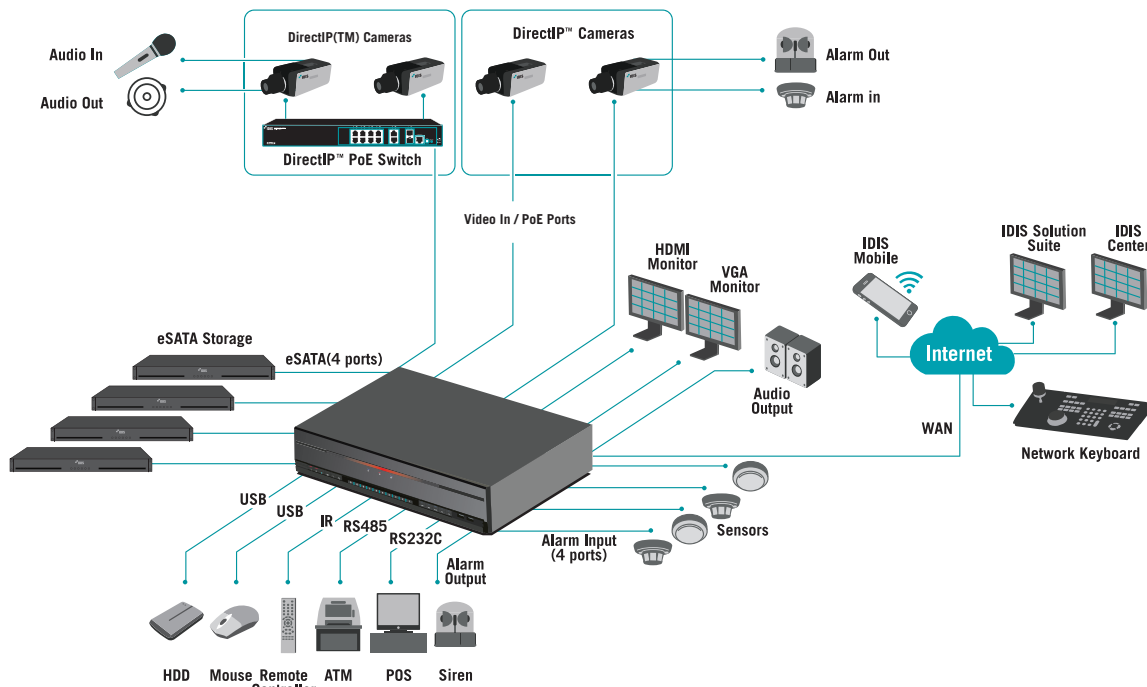


Large enterprise installation

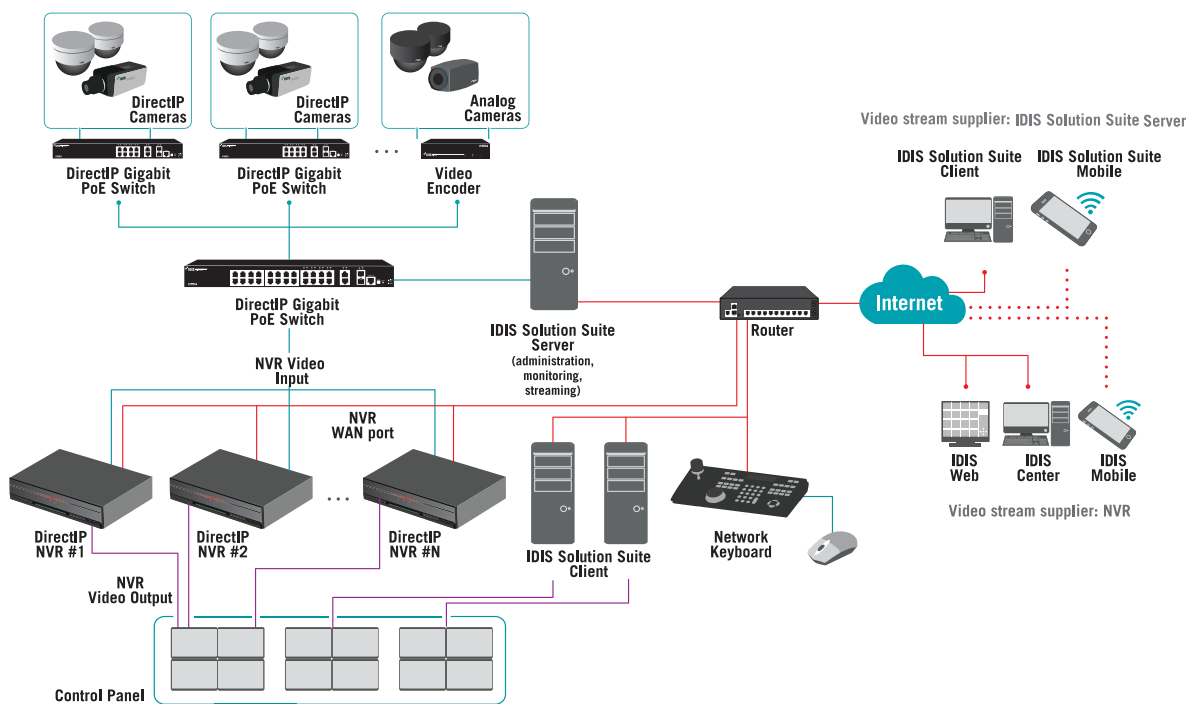
- Scalability with rich connectivity
- Flexibility enabling legacy and third party system integration
- Simple integration with IDIS Center



DR-6200 series NVR connection diagram



Control center installation



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* Availability of the product may vary by country / region.

* Contents could differ to real specification, please conform to detail on our website.

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