



# DirectCX

## IDIS 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.

### KEY FEATURES

- | Real-time HD 1080P/720P
- | Longer transmission distance up to 500m
- | Full HD video without quality loss and latency
- | Camera menu control over coaxial cable
- | Text input from ATM and POS devices
- | FEN(DDNS) : Automated network configuration of DVRs
- | iBank: IDIS's proprietary fragment-free database management technology

HD-TVI 4channel Full HD Recorder

## TR-1104



- Supports HD-TVI / 960H / Analog camera
- Up to 40ips 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 OUT
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
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	1ch 720P synchronous playback
Search Mode	Time-lapse, Event log, Motion, Text-in
Digital Zoom	x2 ~ x12
STORAGE	
HDD	SATA x2 (Up to 4TB capacity for each disk)
Total Capacity	8TB=4TB x2
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	no
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remot e Control, Network Remote Keyboard front button
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 (5.1lb) (with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 5.0A
Power Consumption	18W
Approvals	FCC, CE

HD-TVI 4channel Full HD Real-time Recorder

## 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 OUT
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
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 x2 (Up to 4TB capacity for each disk)
Total Capacity	8TB=4TB x2
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	no
Serial Interface	RS232 (Terminal Block), USB 2.0 x 2
User Interface	Mouse, IR Remote Control, Network Remote Keyboard front button
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 (5.1lb) (with 1 HDD)
Operating Temperature	5°C to 40°C (41°F ~ 104°F)
Operating Humidity	0% ~ 90%
Power Input	DC 12V 5.0A
Power Consumption	19.2W
Approvals	FCC, CE, KC

HD-TVI 8channel Full HD Recorder  
**TR-3108**



- Supports HD-TVI / 960H / Analog camera
- Up to 120ips 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 OUT, 1 CVBS(Spot)
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
Display Speed	Up to 240ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480 960x240, 720x240 480x240, 360x240
Frame Rate	240ips@720P, 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 x4, eSATA x1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x(4+(1x4))
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 (13.2lb)(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, 2.0 ~ 0.6A
Power Consumption	Max. 120W
Approvals	FCC, CE

HD-TVI 16channel Full HD Recorder  
**TR-3116**



- 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	16 BNC (analog and HD-TVI)
Supported Camera Types	720P25, 720P30, 1080P25, 1080P30, CVBS(NTSC / PAL)
Video Outputs	1 HDMI, 1 VGA OUT, 1 CVBS(Spot)
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
Display Speed	Up to 480ips
Digital Zoom	x2 ~ x12
RECORDING	
Recording Resolution	1920x1080, 1280x720, 960x480, 720x480 960x240, 720x240 480x240, 360x240
Frame Rate	480ips@720P, 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 x1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x(4+(1x4))
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 (13.2lb)(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, 2.0 ~ 0.6A
Power Consumption	Max. 120W
Approvals	FCC, CE

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 OUT, 1 CVBS(Spot)
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
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 x1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x(4+(1x4))
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 (13.2lb)(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, 2.0 ~ 0.6A
Power Consumption	Max. 120W
Approvals	FCC, CE

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 OUT, 1 CVBS(Spot)
Display Resolution	1280 x 1024, 1440 x 900, 1920 x 1080
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 x1,(Up to 4TB capacity for each disk)
Total Capacity	32TB=4TB x(4+(1x4))
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 (13.2lb)(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, 2.0 ~ 0.6A
Power Consumption	Max. 120W
Approvals	FCC, CE

2MP Box Camera  
**TC-B1202**



- Full HD (1080p) resolution
- C / CS Mount Lens
- Day&Night (ICR)
- WDR (Wide Dynamic Range: 15fps)
- HSBLC
- Coaxial OSD Control

**SPECIFICATIONS**

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0.001 Lux @ F1.2 , (Sens-UP X30)
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	C/CS Mount Lens
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF / AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alam Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions (W x H x D)	58mm x 52mm x 123mm (2.29" x 2.05" x 4.85")
ENVIRONMENTAL	
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

2MP Out-door Fixed Bullet Camera  
**TC-E1212WR**



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

**SPECIFICATIONS**

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0.001 Lux @ F1.2 , (Sens-UP X30)
IR LED	24ea
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	3.6mm
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF/AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alam Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions (W x H x D)	68mm x 65.5mm x 136.7mm (2.68" x 5.58" x 5.39")
ENVIRONMENTAL	
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

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)
- HSBLC
- Coaxial OSD Control

### SPECIFICATIONS

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0.001 Lux @ F1.2 , (Sens-UP X30)
IR LED	42ea
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	f = 2.8mm ~ 12mm
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF/AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alarm Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions (W x H x D)	95mm x 80mm x 265mm (3.75" x 3.15" x 10.44")
ENVIRONMENTAL	
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

2MP Indoor IR Fixed Dome Camera

## TC-D1212R



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

### SPECIFICATIONS

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0 Lux(IR LED ON)
IR LED	18ea
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	3.6mm
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF/AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alarm Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions ( Ø x H )	Ø100mm x 80mm (Ø3.94" x 3.15")
ENVIRONMENTAL	
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

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)
- HSBLC
- Coaxial OSD Control

### SPECIFICATIONS

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0 Lux(IR LED ON)
IR LED	28ea
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	f = 2.8mm ~ 12mm
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF/AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alarm Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions ( Ø x H )	Ø130mm x 101.8mm (Ø5.12" x 4.01")
ENVIRONMENTAL	
Out-door Ready	-
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

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)
- Vandal Proof / IP66 supports
- Coaxial OSD Control

### SPECIFICATIONS

VIDEO	
Sensor type	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
Resolution	1920X1080(1080p@30f / 1080p@25f) 1280X720(720p@60f / 720p@50f)
Scanning system	Progressive Scan
Min. illumination	0 Lux(IR LED ON)
IR LED	28ea
Video Output	1.0Vp-p Composite. 75 Ohms 1.0Vp-p TVI(Transport Video Interface) 75 Ohms
S/N Ratio	More than 50dB
Lens	f = 2.8mm ~ 12mm
Shutter Speed	AUTO / Manual(1/30,1/25Sec ~ 1/30000Sec) / FLICKER
FUNCTION	
True Day/Night	YES(ICR)
AGC	0 ~ 20 Level Adjustable
Brightness	0 ~ 20 Level Adjustable
Sens-UP	OFF/AUTO (x2 ~ x32)
WDR(Wide Dynamic Range)	OFF / ON (Low,Middle,High) (15 Frame)
BLC(Backlight Compensation)	OFF / ON
HSBLC	1 ~ 20 Level Adjustable
ACE(D-WDR/ATR-EX)	OFF / LOW / MIDDLE / HIGH
Motion Detection	OFF / ON (4 Zone)
Alarm Output	YES
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
Defog	OFF / ON
GAMMA Correction	r = 0.45 ~ 0.65
LSC(Lens Shading)	OFF / ON
ELECTRICAL	
Poewr Source	DC12V
MECHANICAL	
Dimensions ( Ø x H )	Ø150.5mm x 98.8mm (Ø5.93" x 3.89")
ENVIRONMENTAL	
Out-door Ready	IP66
Operating Temperature	-10°C ~ +50°C (14°C ~ +122°C)
Operating Humidity	0% ~ 90%

# **IDIS *Direct CX***

## **IDIS HQ**

IDIS Tower, 344 Pangyo-ro  
Bundang-gu, Seongnam-si  
Gyeonggi-do  
Republic of Korea, 463-400

**T** +82 (0)31 723 5400  
**F** +82 (0)31 723 5100  
**E** [sales@idisglobal.com](mailto:sales@idisglobal.com)

## **IDIS America**

801 Hammond St, Suite 200  
Coppell, TX 75019  
U.S.A

**T** +1 469 444 6538  
**F** +1 469 464 4449  
**E** [americas@idisglobal.com](mailto:americas@idisglobal.com)

## **IDIS Europe**

1000 Great West Road  
Brentford, Middlesex  
TW8 9HH  
The United Kingdom

**T** +44 (0)203 657 5678  
**F** +44 (0)203 697 9360  
**E** [uksales@idisglobal.com](mailto:uksales@idisglobal.com)

## **IDIS Benelux**

De Slof 9  
5107 RH  
Dongen  
The Netherlands

**T** +31 (0)162 387247  
**F** +31 (0)162 311915  
**E** [sales@bnl.idisglobal.com](mailto:sales@bnl.idisglobal.com)

## **IDIS Middle East**

P.O. Box 341037  
D-308, DSO HQ Bldg,  
Dubai Silicon Oasis,  
Dubai, U.A.E

**T** +971 4 501 5434  
**F** +971 4 501 5436  
**E** [sales\\_mena@idisglobal.com](mailto:sales_mena@idisglobal.com)



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