DC-D6243HRX

Architectural and Engineering Specifications

Version 1.2

(Apr. 28, 2021)

**PART 1: PLEASE REFER TO ATTACHED DOCUMENTS - OVERVIEW & FORMAT SAMPLES**

**PART 2: PRODUCTS**

**Division 28 – Electric Safety and Security**

**Section 28 23 29 – Video Surveillance Remote Devices and Sensors**

## Manufacturer

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## General

### Product Description

DC-D6243HRX is a Network Camera (IP Camera) designed and manufactured by IDIS. This camera provides Full HD (1920x1080) resolution at 30ips (images per second) with H.265/H.264/M-JPEG compression. This camera is equipped with Motorized Vari-focal Lens, True Day/Night, PoE (IEEE 802.3af Class 3), IR LED, WDR and microSD/SDHC/SDXC card backup, Vandal-proof dome enclosure design, IP67 rated and provides continuous operation in subzero temperature..

### General Specification

1. The IP camera shall be equipped with **2 Megapixel 1/3” CMOS Sensor**.
2. The IP camera shall be equipped with **a motorized vari-focal lens of f=7 - 22mm and F1.4 - F2.8**.
3. The IP camera shall be a true day/night camera with a mechanical filter for low light performance.
The filter can be switched remotely, or automatically via a light level sensor or contact input (ICR).
4. The IP camera shall have Wide Dynamic Range compensation (**True WDR**) for improved video quality in high-contrast situations (**120dB**).
5. The IP camera shall be equipped with 6ea Infrared LEDs with range up to **30m** (**98.4ft**.).
6. The IP camera shall utilize configurable **2DNR/3DNR** (Dynamic Noise Reduction) technology to reduce the bitrate and storage requirements by removing noise artifacts.
7. The IP camera shall be equipped with 10/100 Base-T, auto-sensing, half/full duplex, RJ-45 Ethernet connection.
8. The IP camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af, **Class 3** to supply power to the camera over the network.
9. The IP camera shall have video out feature (NTSC/PAL).
10. The IP camera shall have on board microSD/SDHC/SDXC card backup storage slot as a safeguard against data loss during network interruptions.
11. Using IDIS NLTSrec(Non-Linear Time Shifting recording) technology, the IP camera can store the recording data to the internal recording memory buffer (60MB) in camera if there is a delay in data transmission due to the instantaneous load of the recorder or network, and then transmits the stored data to IDIS recorder safely.
12. The IP camera shall have built-in heater for continued use in subzero temperature conditions and utilize 12 VDC input to provide power.
13. The IP camera shall deliver maximum video resolution of 1920x1080 at rates up to 30ips (images per second).
14. The IP camera shall provide direct network connection using H.265, H.264 and M-JPEG compression.
15. The IP camera shall support quadruple streams in DirectIP protocol mode.
16. The IP camera shall support quadruple streams in IDIS protocol mode.
17. The IP camera shall conform to the ONVIF\*\* Profile S Ver.2.4.0 standard. (\*\* IDIS protocol only)
18. The IP camera shall be equipped with embedded web server (IDIS Web\*\*) which works independently using a Web Browser with ActiveX plug-in. (\*\* IDIS Protocol only)
19. The IP camera shall have IP filtering, HTTPS, SSL, IEEE 802.1x, and configurable user authority levels for greater security.
20. The IP camera shall have network bandwidth limitation and MAT features for more efficient use of network bandwidth.
21. The IP camera shall have Easy network access via UPnP (Universal Plug and Play) function and embedded mDNS (Multicast DNS) protocol.
22. The IP camera shall have Intelligent Video Analysis (VA): Motion Detection, Active Tampering Alarm, Trip Zone, Line Cross, Loitering and Object Detection.

### Protocol Specification: DirectIP and IDIS Protocol

1. The IP camera shall have 2 protocol modes, DirectIP and IDIS Protocol, and DirectIP is set as main protocol by default.
2. The protocol modes shall be selectable between DirectIP and IDIS protocol mode to meet specific needs with IDIS Discovery tool.
	* DirectIP Protocol
		1. DirectIP protocol shall provide easy connection to DirectIP NVR for automatic discovery and video streaming configuration.
		2. DirectIP protocol shall provide Quadruple streams.
		3. The bitrate shall be automatically adjusted by recording profile of DirectIP NVR.
		4. DirectIP protocol shall support H.265, H.264 and M-JPEG compression.
	* IDIS Protocol
		1. IDIS protocol shall provide the compatibility with IDIS Solution Suite VMS or ONVIF for third-party software solutions.
		2. IDIS protocol shall provide Quadruple streams.
		3. IDIS protocol shall support H.265, H.264 and M-JPEG compression.

## Technical Specification

### Video Specification

1. Image Sensor: 1/3” CMOS
2. Maximum Resolution: 1920x1080
3. Scanning Mode: Progressive Scan
4. **Lens Type: Motorized Vari-Focal (f= 7 – 22mm, F1.4 - 2.8)**
5. **Iris Control: P-iris**
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
	1. **Wide : 40º(H), 22º(V), 47º(D)**
	2. **Tele : 16º(H), 9º(V), 18º(D)**
	3. **Pan: -176° ~ 176°, Tilt: 0° ~ 66°, Rotate: -90° ~ 90°**
7. Minimum Illumination:
	1. **COLOR : 0.1 lux @ F1.4**
	2. **B/W : 0 lux (IR LED ON)**
8. S/N Ratio: More than 45dB
9. Maximum Frame Rate
	1. Direct IP Protocol Mode: 30ips @1920x1080(WDR)
	2. IDIS protocol mode: 30ips @ 1920 x 1080(WDR)
10. Video Resolution:
	1. DirectIP Protocol Mode: 1920x1080, 1280x720, 704x480, 640x360, 352x240
	2. IDIS protocol mode: 1920x1080, 1280x720, 704x480, 640x360, 352x240
11. Video Compression : H.265, H.264, M-JPEG.
12. Video Compression Level: Basic, Standard, High, Very High
13. Multi-Video Streaming: Quadruple streams
14. Dynamic Range: 120dB
15. True Day & Night: Yes (ICR)
16. **IR Distance (number of LEDs): 30 m / 98.4 ft (6 ea)**
17. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip Zone, Line Cross, Loitering, Object Detection
18. Analog Video Output: 1 BNC (Accessory)

### Network Specification

1. Port: RJ-45 10/100 Base-T 1 port
2. Network Protocols:
	1. DirectIP Protocol Mode
	2. IDIS Protocol Mode: RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
3. Streaming Mode: Unicast, Multicast

### Security Specification

1. DirectIP Protocol Mode: SSL Encryption
2. IDIS Protocol Mode: Multi-User Authority, IEEE 802.1x, IP Filtering, HTTPS, SSL Encryption
3. Maximum User Access:
	1. DirectIP protocol mode: Direct camera access is unavailable.
	2. IDIS protocol mode: 10 (Live), 1 (Recording), 1 (Search), 2 (Admin)

### Alarm and Event Specification

1. Alarm Input / Output:

- ALARM IN : 1 TTL, NC/NO Programmable, 4.3V(NC) or 0.3V(NO) threshold, 5V DC

- ALARM OUT : 1 TTL open collector, 30mA @ 5 VDC

1. Trigger Events: Motion Detection, Alarm in, Audio Detection, Tampering, Trip Zone, Line Cross, Loitering and Object Detection
2. Event Notification: Remote S/W, Email (with Image)
	1. Encryption Type: SSL, TLS

## Environmental Specification

1. Operating Temperature**: -40°C ~ +60°C** (-40°F ~ +140°F)
2. Operating Humidity: 0% ~ 90%
3. Vandal-proof Enclosure: IK10
4. Outdoor Ready: IP67, Heater

## Electrical Specification

1. Power Source: PoE(IEEE 802.3af **class 3**)
2. Power Consumption: **9.84W**
3. Regulatory Approvals: FCC, CE, KC

## Mechanical Specification

1. Dimensions (Ø x H): **Ø160mm x 128.5mm (Ø6.30" x 5.06")**
2. Unit Weight: **1.21 kg (2.66lb)**

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.2 | TS Team | Apr. 28, 2021 | Spec Update |
| 1.1 | TS Team | Nov. 17, 2020 | Spec Update |
| 1.0 | TS Team | Oct. 22, 2018 | Initial Release |