

DC-T4533HRX

Architectural and Engineering Specifications

Version 1.0
(Oct. 22, 2019)

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

PART 2: PRODUCTS

Division 28 – Electric Safety and Security

Level 1 - 28.20.00 – Video Surveillance

Level 2 - 28.21.00 – Surveillance Cameras

Level 3 - 28.21.13 – IP Cameras

2.1.0 Manufacturer

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2.2.0 General

2.2.1 Product Description

DC-T4533HRX is a Bullet type IP Camera designed and manufactured by IDIS. This camera provides 5M (2592 x 1944) 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, Audio I/O, Alarm I/O, Vandal-proof bullet enclosure design, IP67 rated and heater provide continuous operation in subzero temperature.

2.2.2 General Specification

1. The IP camera shall be equipped with 5 Megapixel 1/2.8" CMOS Sensor.
2. The IP camera shall be equipped with 3mm – 13.5mm Motorized Vari-focal lens, F1.4 – 3.2.
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 (Digital WDR) for improved video quality in high-contrast situations (120dB).
5. The IP camera shall be equipped with 6ea Infrared LED with range up to 40m (131.2ft.).
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 Vandal-Proof, IP rating 67 and heater.
8. IP camera shall be equipped with 10/100 Base-T, auto-sensing, half/full duplex, RJ45 Ethernet connection.
9. 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 and 12VDC input.
10. The IP camera shall have built-in heater for continued use in subzero temperature conditions.
11. The IP camera shall have video out feature (NTSC/PAL).

12. 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.
13. The IP camera shall deliver maximum video resolution of 2592 x 1944 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 (** IDIS Protocol only).
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 and Trip Zone.

2.2.3 Protocol Specification: DirectIP 2.0

1. The IP camera shall have DirectIP 2.0 mode.
2. DirectIP 2.0 protocol shall provide easy connection to DirectIP NVR for automatic discovery and video streaming configuration.
3. DirectIP 2.0 shall provide the compatibility with IDIS Solution Suite VMS or ONVIF for third-party software solutions.
4. DirectIP 2.0 shall support camera can be linked to IDIS software solution such as IDIS Center and IDIS Solution Suite, or 3rd party solution while it is being connected to a DirectIP NVR.
5. DirectIP 2.0 camera shall be compatible with DirectIP 1.0 NVR as well as DirectIP 2.0 NVR.
6. DirectIP 2.0 camera shall be unavailable for No-password login when connecting to DirectIP 2.0 NVR and IDIS Software Solutions.
7. DirectIP 2.0 protocol shall provide Quadruple streams.
8. DirectIP 2.0 protocol shall support H.264 and H.265 and MJPEG compression.

2.3.0 Technical Specification

2.3.1 Video Specification

1. Image Sensor: 1/2.8" CMOS

2. Maximum Resolution: 2592 x 1944
3. Scanning Mode: Progressive Scan
4. Lens Type: Motorized Vari-focal (f= 3.0 – 13.5mm, F1.4 – 3.2)
5. IRIS Control: DC Iris
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
 - A. Wide : 91°(H) 66°(V) 120°(D)
 - B. Tele : 31°(H) 23°(V) 38°(D)
7. Minimum Illumination:
 - A. COLOR : 0.1 lux @ F1.4
 - B. B/W : 0 lux (IR LED ON)
8. S/N Ratio: More than 45dB
9. Maximum Frame Rate:
 - A. 4:3 mode : 30ips : 2592 x 1944(WDR)
 - B. 16:9 mode : 30ips : 2592 x 1456(WDR)
10. Video Resolution:
 - A. 4:3 : 2592x1944, 1920x1440, 1280x960x 640x480
 - B. 16:9 : 2592x1456, 1920x1080, 1280x720, 640x360
11. Video Compression : H.265, H.264, M-JPEG** (** IDIS Protocol only)
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 (The number of LEDs): 40m (131.2ft.) (6ea)
17. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip Zone

2.3.2 Audio Specification

1. Audio Compression Algorithm: ADPCM 16K, G.726, G.711 u-Law, G.711 a-Law
2. Audio Input / Output: Line-in 1ea / Line-out 1ea
3. Two-way Audio Communication: Yes
4. Pre-recorded Voice Alert: Yes

2.3.3 Network Specification

1. Port: RJ-45 10/100 Base-T 1 port
2. Network Protocols: Network Protocols: DirectIP 2.0 Protocol, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNMP, SMTP, FEN, mDNS, uPNP

3. Streaming Mode: Quadruple streaming

2.3.4 Security Specification

1. SSL Encryption, Multi-User Authority, IEEE 802.1x, IP Filtering, HTTPS
2. Maximum User Access: 10 (Live), 1 (Recording), 1 (Search), 2 (Admin)

2.3.5 Alarm and Event Specification

1. Alarm Input / Output 1/1
 - A. Alarm Input: 1 TTL, NC/NO programmable, 2.4V (NC) or 0.3V (NO) threshold, 5 VDC,
 - B. Mechanical or electrical switches can be wired to the Alarm-In and GND connectors. The maximum voltage should not exceed 5V.
 - C. Alarm Output: 1 TTL open collector, 30mA @ 5 VDC
2. Trigger Events: Motion Detection, Alarm in, Audio Detection, Tampering, Trip Zone
3. Event Notification: Remote Software, Email (with Image)

2.4.0 Environmental Specification

1. Operating Temperature: -40°C ~ +55°C (-40°F ~ +131°F)
 - A. Starting up at above -20°C (-4°F)
2. Operating Humidity: 0% ~ 90%
3. Vandal-proof Enclosure: IK10
4. Outdoor Ready: IP67, Heater

2.5.0 Electrical Specification

1. Power Source: 12VDC, PoE(IEEE 802.3af class 3)
2. Power Consumption:
 - A. 12V=, 0.78A, 9.36W
 - B. PoE, IEEE 802.3af(Class 3), 8W
3. Regulatory Approvals: FCC, CE, KC

2.6.0 Mechanical Specification

1. Dimensions (Ø x H): Ø77mm x 244.1mm (Ø3.03" x 9.61")
2. Unit Weight: 0.84 kg (1.85 lb)

Version History

Version	Writer	Revision Date	Remarks
1.0	TS Team	Oct. 22, 2019	Initial Release