DC-S3583HRX-A

Architectural and Engineering Specifications

Version 1.2

(Sep. 27, 2022)

**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**

## Manufacturer

1. IDIS Co., Ltd.  
   IDIS Tower, 344 Pangyo-ro, Bundang-gu  
   Seongnam-si, Gyeonggi-do, 13494, Republic of Korea  
   Tel: +82 31 723 5028  
   Fax: +82 31 723 5100

## General

### Product Description

DC-S3583HRX-A is an Outdoor Network WDR PTZ Camera (IP Camera) with IR LED designed and manufactured by IDIS. This camera provides 5MP (3072 x 1728) resolution at 30ips (images per second) with H.265, H.264, MJPEG compression. This camera is equipped with 31x Auto Focus Zoom lens, IR LEDs, High-PoE, Alarm I/O, microSD/SDHC/SDXC card backup, Vandal-proof dome enclosure with heater and IP66 rated.

### General Specification

1. The IP camera shall be equipped with 5 Megapixel 1/1.7” CMOS Sensor.
2. The IP camera shall be equipped with 6.5mm – 202mm auto-focus zoom lens, F1.55 – F4.8
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 support wide pan (360o) and tilt (200o) range as well as zoom up to 31x.
6. The IP camera shall utilize 2DNR or 3DNR (Dynamic Noise Reduction) technology to reduce the bitrate and storage requirements by removing noise artifacts.
7. The IP camera shall be IK10 complied vandal proof and IP rating 66 complied dome enclosure design.
8. The IP camera shall be equipped with 10/100/1000Base-T, auto-sensing, half/full duplex, RJ-45 Ethernet connection.
9. The IP camera shall support High-PoE (Power over Ethernet) input to receive the power over network and 24VAC input via an external power adapter.
10. The IP camera shall have built-in heater for continued use in subzero temperature conditions and utilize 24VAC input to provide power.
11. The IP camera shall have video out feature (NTSC/PAL) to preview the image only.
12. The IP camera shall have on board microSD/SDHC/SDXC card backup storage slot as a safeguard against data loss during network interruptions.
13. 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.
14. The IP camera shall deliver maximum video resolution of 3072 x 1728(WDR) at rates up to 30ips (images per second).
15. The IP camera shall provide direct network connection using H.265, H.264 and M-JPEG\*\* compression.
16. The IP camera shall support quadruple streams.
17. The IP camera shall conform to the ONVIF\*\* Profile S verified by ONVIF device test tool version 19.06.
18. The IP camera shall be equipped with embedded web server (IDIS Web\*\*) which works independently using a Web Browser with ActiveX plug-in.
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): Video Motion Detection, Active Tampering Alarm, Trip Zone.
23. The IP camera shall have Digital Image Stabilization (DIS) to reduce the effect of camera shake or vibration.
24. The IP camera shall support Smart Failover feature that the camera’s SD card instantly begins recording and automatically transfers the data to the NVR or ISS after recovery, leaving no incident unrecorded, when the camera and NVR or ISS are disconnected.

### 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 ad 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 M-JPEG compression.

## Technical Specification

### Video Specification

1. Image Sensor: 1/1.7” CMOS
2. Maximum Resolution: 3072 x 1728
3. Scanning Mode: Progressive Scan
4. Lens Information: AF(Auto Focus) Zoom Lens, IR Corrected Lens
   1. f=6.5mm – 202mm
   2. F1.55 – F4.8
5. Iris Control: DC Auto Iris with hall sensor
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
   1. Wide: 58.2º(H), 34.4.º(V), 65.2º(D)
   2. Tele: 1.99º(H), 1.13º(V), 2.3º(D)
   3. Pan Range, Speed: 360°(Endless), 0.02 ~ 180°/sec (preset 420°/sec)
   4. Tilt Range, Speed: 200°(-10° ~ 190°), 0.02 ~ 180°/sec (preset 420°/sec)
   5. Zoom Range: x31
7. Minimum Illumination:
   1. Color: 0.1 lux @ F1.55
   2. B/W: 0 lux (IR LED ON)
8. S/N Ratio: more than 45dB
9. Maximum Frame Rate: 30ips @ 3072 x 1728 (WDR)
10. Video Resolution: 3072 x 1728 (5MP), 1920x1080, 1280x720, 640x360
11. Video Compression: H.265, H.264, MJPEG
12. Video Compression Level: 4 levels: Basic, Standard, High, Very High
13. Video Bitrate Control: H.264 - CBR / VBR, H.265 - CBR / VBR
14. Intelligent Codec: Off (Default) / On
15. Motion Adaptive Transmission (MAT): Off (Default) / On
16. Multi-Video Streaming: Quadruple streams
17. Dynamic Range: 120dB (True WDR)
18. Electronic Shutter Speed: Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter ( 1~1/5, 1/7.5, 1/15)
19. True Day & Night: Yes (ICR)
20. IR Distance (number of LEDs): 200m, 656.2ft (2ea)
21. Image Setting: Configurable Exposure, White Balance, Sharpness
22. Digital Noise Reduction: Configurable 2DNR/3DNR
23. Backlight Compensation: On / Off / HSBLC
24. Mirroring / Pivot : Horizontal / Vertical
25. Image Stabilizer: Yes (DIS)
26. Privacy Masking: 8 Zones
27. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip Zone
28. Auto Tracking: Yes
29. Analog Video Output: 1 Terminal Block
30. Advanced PTZ options: 256 presets

### Network Specification

1. Port: RJ-45, 10/100/1000Base-T, 1 port
2. Network Protocols: DirectIP 2.0 Protocol, IPv4, IPv6, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP, SNMPv2
3. Streaming Mode: Quadruple streaming
4. Recording Session Buffer (NLTSrec): Up to 60MB
5. Edge Storage: micro SD/SDHC/SDXC, Smart Failover (Up to 256GB)

### 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)

### Alarm and Event Specification

1. Alarm Input / Output: 8 / 2
   1. Alarm Input: 8 TTL, NC/NO Programmable, 4.3V(NC) or 0.3V(NO) threshold, 5V DC
   2. Mechanical or electrical switches can be wired to the Alarm-In and GND connectors. The maximum voltage should not exceed 5V.
   3. Alarm Output: 2 TTL open collector, 30mA @ 5 VDC
2. Trigger Events: Motion Detection, Alarm in, Tampering, Trip Zone
3. Event Notification: Remote S/W, Email (with Image)
   1. Encryption Type: SSL

## Environmental Specification

1. Operating Temperature: -40°C ~ +60°C (-40°F ~ +140°F), starting up at above -20°C (-4°F)
2. Operating Humidity: 0% to 90% non-condensing
3. Vandal-proof Enclosure: IK10
4. Outdoor Ready: IP66, Heater

## Electrical Specification

1. Power Source: 24VAC, PoE (75W)
2. Power Consumption: Max 68.6W (Heater On)
   1. Heater Off
      1. 24VAC: 2.1A, 38.2W, 50/60Hz
      2. High-PoE (50-57V): 29.7W
   2. Heater On
      1. 24VAC: 3.7A, 68.58W, 50/60Hz
      2. High-PoE (50-57V): 58.6W
3. PoE signature resistance: 25K ohm

Caution) PoE supplier or injector should detect 25K ohm signature resistance.

1. Regulatory Approvals: FCC, CE(50130-4), KC

## Mechanical Specification

1. Dimensions (Ø x H): Ø242mm x 401.8mm (Ø9.52" x 15.82")
2. Unit Weight: 7.4 kg (16.31 lb)

## Software Specification

1. Supported Language: English, French, German, Italian, Spanish, Dutch, Polish, Portuguese, Hungarian, Czech, Russian, Danish, Swedish, Finnish, Turkish, Croatian, Korean, Japanese, Chinese-PRC, Chinese-Taiwan

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | May. 18, 2021 | Initial Release |
| 1.1 | TS Team | June. 29, 2022 | Spec Update |
| 1.2 | TS Team | Sep. 27.2022 | Added Trip Zone |