DC-S3283WHX-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**

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

## Manufacturer

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## General

### Product Description

DC-S3283WHX-A is an Outdoor Network WDR PTZ Camera (IP Camera) designed and manufactured by IDIS. This camera provides 2MP (1920 x 1080) resolution at 60ips (images per second) with H.265, H.264, and MJPEG compression. This camera is equipped with 30x Auto Focus/Zoom lens, PoE (IEEE 802.3at Class 4), Alarm I/O, micro SD/SDHC/SDXC card backup, Vandal-proof dome enclosure with heater, and IP66 rated.

### General Specification

1. The IP camera shall be equipped with 2 Megapixel 1/3” CMOS Sensor.
2. The IP camera shall be equipped with 4.3mm – 129mm auto-focus zoom lens, F1.6 – F5.0.
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 (200 o) range as well as zoom up to 30x.
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 vandal proof (IK10) and IP rating 67 complied dome enclosure design.
8. The IP camera shall be equipped with 10/100/1000 Base-T, auto-sensing, half/full duplex, RJ-45 Ethernet connection.
9. The IP camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3at Class4 to supply power to the camera over the network, 24VAC input.
10. The IP camera shall have built-in heater for continued use in subzero temperature conditions
11. The IP camera shall have on board microSD/SDHC/SDXC card backup storage slot as a safeguard against data loss during network interruptions.
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 1920 x 1080 at rates up to 30ips (images per second).
14. The IP camera shall provide direct network connection using H.265, H.264 and MJPEG\*\* compression.
15. The IP camera shall support quadruple streams.
16. The IP camera shall conform to the ONVIF\*\* Profile S Ver.2.4.0 standard.
17. The IP camera shall be equipped with embedded web server (IDIS Web\*\*) which works independently using a Web Browser with ActivX plug-in.
18. The IP camera shall have IP filtering, HTTPS, SSL, IEEE 802.1X, and configurable user authority levels for greater security.
19. The IP camera shall have network bandwidth limitation and MAT features for more efficient use of network bandwidth.
20. The IP camera shall have Easy network access via UPnP (Universal Plug and Play) function and embedded mDNS (Multicast DNS) protocol.
21. The IP camera shall have Intelligent Video Analysis (VA): Video Motion Detection, Active Tampering Alarm, Trip Zone.

### 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: 1/3” CMOS
2. Maximum Resolution: 1920 x 1080
3. Scanning Mode: Progressive Scan
4. Lens Type: AF(Auto Focus) Zoom Lens (f=4.3mm – 129mm, F1.6 – F5.0)
5. Iris Control: DC Auto Iris
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
   1. Wide: 64.7º(H), 38.6º(V), 72.7º(D)
   2. Tele: 2.3º(H), 1.4º(V), 2.6º(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: x30
7. Minimum Illumination:
   1. Color: 0.1 lux @ F1.6
   2. B/W: 0.01 lux @ F1.6
8. S/N Ratio: more than 45dB
9. Maximum Frame Rate: 60ips @ 1920 x 1080, 30ips @1920 x 1080(WDR).
10. Video Resolution: 1920 x 1080, 1280 x 720, 704x480, 640 x 360, 352x240
11. Video Compression: H.265, H.264, MJPEG
12. Video Compression Level: 4 levels: Basic, Standard, High, Very High
13. Multi-Video Streaming: Quadruple streams
14. Dynamic Range: 120dB (True WDR)
15. True Day & Night: Yes (ICR)
16. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip Zone
17. The number of preset: 256ea

### Network Specification

1. Port: RJ-45 10/100/1000 Base-T 1 port
2. Network Protocols: 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

### 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: 4 / 2
   1. Alarm Input: 4 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: Detection, Face Detection, Alarm in, Tampering
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: IP67, Heater

## Electrical Specification

1. Power Source:24VAC, PoE(IEEE 802.3af Class 4)
2. Power Consumption: 15.2W (Heater on)
3. Regulatory Approvals: FCC, CE (50130-4), KC, UL

## Mechanical Specification

1. Dimensions (Ø x H): Ø200mm x 201mm (Ø7.88" x 7.91")
2. Unit Weight: 2.45 kg (5.41 lb)

# 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 |