

DC-D4516WRX 2.8mm / 4.0mm

Architectural and Engineering Specifications

Version 1.1
(Feb. 10, 2025)

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-D4516WRX is an outdoor dome type IP Camera followed by NDAA Compliance designed and manufactured by IDIS. This camera provides 5MP (2592 x 1944) resolution at 30ips (images per second) with H.265, H.264, and M-JPEG compression. This camera is equipped with Fixed-focal lens, IR LEDs, True Day/Night, PoE (IEEE 802.3af Class 3), Alarm I/O, Audio I/O and microSD/SDHC/SDXC card backup(up to 512GB), Vandal-proof dome enclosure design, IP67 rated with Heater/ IK10.

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 2.8mm/4.0mm fixed-focal lens, F2.0 (2.8mm) / F2.15 (4.0mm).
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 (120 dB).
5. The IP camera shall be equipped with 4ea Infrared LEDs ranging up to 30m/98.4ft
6. The IP camera shall support fixed Iris.
7. The IP camera shall be vandal proof and IP rating 67 complied dome enclosure design.
8. The IP camera shall be equipped with 10/100 Base-T, auto-sensing, half/full duplex, RJ-45 Ethernet connection.
9. The IP camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af, Class 3 to supply power to the camera over the network.
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 deliver maximum video resolution of 2592x1944 at rates up to 30ips (images per second).
13. The IP camera shall provide network connection using H.265, H.264 and M-PEG compression.
14. The IP camera shall support quadruple streams in DirectIP 2.0 protocol mode.
15. The IP camera shall conform to the ONVIF Profile S/T.
16. The IP camera shall be equipped with embedded web server (IDIS Web) which works independently using a Web Browser with ActiveX plug-in.
17. The IP camera shall have Digest authentication, Password Protection, User access log, IP Filtering, IEEE802.1x(EAP-TLS), Chained Fingerprint, SSL Encryption and HTTPS Encryption for greater security.
18. The IP camera shall have network bandwidth limitation and MAT features for more efficient use of network bandwidth.
19. The IP camera shall have Easy network access via UPnP (Universal Plug and Play) function and embedded mDNS (Multicast DNS) protocol.
20. The IP camera shall have Intelligent Video Analysis (VA): Motion Detection, Alarm in, Tampering 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 3rd-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 M-JPEG compression.

2.3.0 Technical Specification

2.3.1 Video Specification

1. Image Sensor: 1/2.8" CMOS
2. Maximum Resolution: 2592x1944

3. Scanning Mode: Progressive Scan
4. Lens Type: Fixed-focal (f=2.8mm/4.0mm, F2.0/2.15)
5. Iris Control: Fixed Iris
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):

[4:3 Mode]

- A. f=2.8mm : 104.8° (H) 76.9°(V) 130°(D)
- B. f=4.0mm : 79.2° (H) 56.6°(V) 103°(D)

[16:9 Mode]

- C. f=2.8mm : 104.8° (H) 57.1°(V) 122.9°(D)
- D. f=4.0mm : 79.2°(H) 41.4°(V) 95.1°(D)

7. Pan/Tilt Range: Pan: -170° ~ 170°, Tilt: -5° ~ 67.5°, Rotate: -109° ~ 109°
8. Minimum Illumination:
 - A. f=2.8mm : COLOR: 0.15 lux @ F2.0 / B/W : 0 lux (IR LED ON)
 - B. f=4.0mm : COLOR: 0.15 lux @ F2.15 / B/W : 0 lux (IR LED ON)
9. S/N Ratio: more than 45 dB
10. Maximum Frame Rate:
 - A. 4:3 mode : 30ips : 2592 x 1944(WDR)
 - B. 16:9 mode : 30ips : 2592 x 1456(WDR)
11. Video Resolution:
 - A. 4:3 : 2592x1944, 1920x1440, 1280x960x 640x480
 - B. 16:9 : 2592x1456, 1920x1080, 1280x720, 640x360
12. Video Compression : H.265, H.264, MJPEG
13. Video Compression Level: 4 levels: Basic, Standard, High, Very High
14. Intelligent Codec is supported.
15. Multi-Video Streaming: Quadruple streams
16. Dynamic Range: 120dB
17. True Day & Night: Yes (ICR)
 - A. IR Distance (The number of LEDs, IR wavelength): 30m /98.4ft (4ea)
18. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip-Zone.

2.3.2 Network Specification

1. Port: RJ-45 10/100 Base-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

2.3.3 Security Specification

1. Digest authentication, Password Protection, User access log, IP Filtering, IEEE802.1x(EAP-TLS), Chained Fingerprint, SSL Encryption, HTTPS Encryption

2.3.4 Audio Specification

1. Audio Compression Algorithm: OPUS, ADPCM (16kHz), G.726, G.711 u/a-Law
2. Audio Input / Output: 1 / 1
3. Two-way Audio Communication: Yes
4. Pre-recorded Voice Alert(Audio Alarm): On / Off

2.3.5 Alarm and Event Specification

1. Trigger Events: Motion Detection, Alarm in, Tampering, Trip Zone
2. Event Notification: Remote S/W, Email (with Image)

2.4.0 Environmental Specification

1. Operating Temperature: -30°C ~ +55°C (-22°F ~ +131°F)
 - Starting up at above 0°C (32°F)
2. Operating Humidity: 0% to 90% non-condensing
3. Vandal Proof: IK10
4. International Protection Marking: IP67

2.5.0 Electrical Specification

1. Power Source: PoE (IEEE 802.3af class 3)
2. Power Consumption: PoE, IEEE 802.3af Class 3, 7.6W
3. Regulatory Approvals: FCC, CE, KC

2.6.0 Mechanical Specification

1. Dimensions (Ø x H): Ø120.6 x 92.9mm (Ø4.75" x 3.66")
2. Unit Weight: 0.48kg(1.06lb)

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Version History

Version	Writer	Revision Date	Remarks
1.1	TS Team	Feb. 10, 2025	Update
1.0	TS Team	Apr. 26, 2023	Initial Release