DC-D4211CRX

Architectural and Engineering Specifications

Version 1.0

(Jul. 05, 2023)

**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-D4211CRX is an economical and compact 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 fixed lens, True Day/Night, PoE (IEEE 802.3af Class 2), and IR LED.

### General Specification

1. The IP camera shall be equipped with 2 Megapixel 1/2.9” CMOS Sensor.
2. The IP camera shall be equipped with 2.8mm fixed lens, F2.0
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 True Wide Dynamic Range compensation (True WDR) for improved video quality in high-contrast situations (120dB).
5. The IP camera shall be equipped with 1ea Infrared LED with range up to 15m (49.2ft.).
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 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 2 to supply power to the camera over the network.
9. 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.
10. The IP camera shall deliver maximum video resolution of 1920x1080 at rates up to 30ips (images per second).
11. The IP camera shall provide direct network connection using H.265, H.264 and M-JPEG compression.
12. The IP camera shall support quadruple streams.
13. The IP camera shall conform to the ONVIF Profile S Ver.2.4.0 standard.
14. The IP camera shall be equipped with embedded web server (IDIS Web\*\*) which works independently using a Web Browser with ActiveX plug-in.
15. The IP camera shall have IP filtering, HTTPS, SSL, IEEE 802.1x, and configurable user authority levels for greater security.
16. The IP camera shall have network bandwidth limitation and MAT features for more efficient use of network bandwidth.
17. The IP camera shall have Easy network access via UPnP (Universal Plug and Play) function and embedded mDNS (Multicast DNS) protocol.
18. The IP camera shall have Intelligent Video Analysis (VA): Motion Detection, Active Tampering Alarm and 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 MJPEG compression.

## Technical Specification

### Video Specification

1. Image Sensor: 1/2.8” CMOS
2. Maximum Resolution: 1920x1080
3. Scanning Mode: Progressive Scan
4. Lens Type: Fixed-focal (f= 2.8mm, F2.0)
5. Iris Control: Fixed Iris
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
	1. 113.74º(H), 61.5º(V), 134.5º(D)
	2. Pan: -170° ~ 170°, Tilt: 0° ~ 65°, Rotate: -90° ~ 90°
7. Minimum Illumination:
	1. Color: 0.1 lux @F2.0
	2. B/W: 0 lux (IR LED ON)
8. S/N Ratio: 45dB
9. Maximum Frame Rate: 30ips @1920x1080,
10. Video Resolution: 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): 15 m / 49.2 ft (1 ea)
17. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm, Trip Zone

### Network Specification

1. Port: RJ-45, 10/100Base-T, 1 port
2. Network Protocols: DirectIP 2.0 Protocol, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
3. Security: Multi-user Authority, IEEE 802.1x, IP Filtering, HTTPS, SSL Encryption
4. Remote Access Client: DirectIP NVR Connection, IDIS Web, IDIS Mobile, IDIS Solution Suite
5. Recording Session Buffer (NLTSrec): Up to 60MB

### Security Specification

1. Multi-user Authority, IEEE 802.1x, IP Filtering, HTTPS, SSL Encryption
2. Maximum User Access: 10 sessions for (Admin, Watch, etc.), 1 session for Recording, 1 session for Searching the recorded data in SD card

### Alarm and Event Specification

1. Alarm Input / Output: N/A
2. Trigger Events: Motion Detection, Tampering, Trip Zone
3. Event Notification: Remote S/W, Email (with Image)
	1. Encryption Type: SSL

## Environmental Specification

1. Operating Temperature: -10°C ~ +50°C (+14°F ~ +122°F)
2. Operating Humidity: 0% ~ 90%

## Electrical Specification

1. Power Source: PoE(IEEE 802.3af Class 2)
2. Power Consumption: PoE IEEE 802.3af (Class2) 3.6W
3. Regulatory Approvals: FCC, CE, KC

## Mechanical Specification

1. Dimensions (Ø x H): Ø86mm x 59mm (Ø3.39" x 2.32")
2. Unit Weight: 0.1kg (0.10 lb)

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | Jul. 05, 2023 | Initial Release |