

DC-Y3C14WRX

Architectural and Engineering Specifications

Version 1.1
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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

2.1.0 Manufacturer

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2.2.0 General

2.2.1 Product Description

DC-Y3C14WRX is a Network Camera (IP Camera) designed and manufactured by IDIS. This camera provides 12MP (3200x2944) resolution at 30ips (images per second) with H.265/H.264/MJPEG compression. This camera is equipped with Fixed-focal lens, True Day/Night, PoE (IEEE 802.3af Class 3), Audio I/O + internal Mic, Alarm I/O, microSD/SDHC/SDXC card backup, Vandal-proof/Weather-proof and IP67 rated.

2.2.2 General Specification

1. The IP camera shall be equipped with 12 Megapixel 1/1.7" CMOS Sensor.
2. The IP camera shall be equipped with 1.98mm Fixed-focal lens, F2.8.
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 (Digital WDR) for improved video quality in high-contrast situations (120dB).
5. The IP camera shall utilize configurable 2DNR/3DNR (Dynamic Noise Reduction) technology to reduce the bitrate and storage requirements by removing noise artifacts.
6. The IP camera shall be equipped with 10/100/1000 Base-T, auto-sensing, half/full duplex, RJ-45 Ethernet connection.
7. The IP camera shall be vandal proof and IP rating 67 complied.
8. 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.
9. The IP camera shall have video out feature (NTSC/PAL).
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 3200x2944 at rates up to 30ips (images per second).
13. The IP camera shall provide direct network connection using H.265, H.264 and MJPEG** compression. (** IDIS protocol only)
14. The IP camera shall support quadruple streams in DirectIP protocol mode.
15. The IP camera shall support hextuple streams in IDIS protocol mode.
16. The IP camera shall conform to the ONVIF** Profile S Ver.2.4.0 standard. (** IDIS protocol only)
17. 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)
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 and Trip Zone.

2.2.3 Protocol Specification: DirectIP and IDIS Protocol

1. The IP camera shall have 2 protocol modes, DirectIP and IDIS Protocol, and DirectIP is set as main protocol by default.
2. The protocol modes shall be selectable between DirectIP and IDIS protocol mode to meet specific needs with IDIS Discovery tool.
 - DirectIP Protocol
 - A. DirectIP protocol shall provide easy connection to DirectIP NVR for automatic discovery and video streaming configuration.
 - B. DirectIP protocol shall provide Quadruple streams.
 - C. The bitrate shall be automatically adjusted by recording profile of DirectIP NVR.
 - D. DirectIP protocol shall support H.265 only as primary compression.
 - IDIS Protocol
 - A. IDIS protocol shall provide the compatibility with IDIS Solution Suite VMS or ONVIF for third-party software solutions.
 - B. IDIS protocol shall provide Hextuple streams.
 - C. IDIS protocol shall support H.265, H.264 and MJPEG compression.

2.3.0 Technical Specification

2.3.1 Video Specification

1. Image Sensor: 1/1.7" CMOS
2. Maximum Resolution: 3200x2944
3. Scanning Mode: Progressive Scan
4. Lens Type: Fixed-focal (f=1.98mm, F2.8)
5. Iris Control: Fixed Iris
6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
 - A. 180°(H), 174.8°(V), 180(D)
7. Minimum Illumination:
 - A. Color: 0.2 lux @ F2.8
 - B. B/W: 0 lux (IR LED ON)
8. S/N Ratio: 52.7dB
9. Maximum Frame Rate: 30ips @ 3200x2944
10. Video Resolution:
 - A. DirectIP Protocol Mode: 3200x2944, 1600x1504, 800x752
 - B. IDIS protocol mode: 3200x2944, 2400x2256, 3200x1504, 1600x1504, 1600x752, 800x752
11. Video Compression: H.265, H.264 and MJPEG** (** IDIS Protocol only)
12. Video Compression Level: Basic, Standard, High, Very High
13. Multi-Video Streaming:
 - A. DirectIP Protocol Mode: Quadruple streams
 - B. IDIS Protocol Mode: Hextuple streams
14. Dynamic Range: 120dB (True WDR)
15. True Day & Night: Yes (ICR)
16. Intelligent Video Analytic: Video Motion Detection, Active Tampering Alarm and Trip Zone

2.3.2 Audio Specification

1. Audio Compression Algorithm: G.726 (16kHz), G.711 u-Law (8kHz)
2. Audio Input / Output: Line-in 1ea + Internal Mic 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 10/100/1000 Base-T 1 port
2. Network Protocols:

- A. DirectIP Protocol Mode
 - B. IDIS Potocol Mode: RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP
3. Streaming Mode: Unicast

2.3.4 Security Specification

1. DirectIP Protocol Mode: SSL Encryption
2. IDIS Protocol Mode: Multi-User Authority, IEEE 802.1x, IP Filtering, HTTPS, SSL Encryption
3. Maximum User Access:
 - A. DirectIP protocol mode: Direct camera access is unavailable.
 - B. IDIS protocol mode: 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, 4.3V(NC) or 0.3V(NO) threshold, 5V DC
 - 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: 2 TTL open collector, 30mA @ 5 VDC
2. Trigger Events: Motion Detection, Alarm in, Audio detection, Tampering and Trip Zone
3. Event Notification: Remote S/W, Email (with Image)
 - A. Encryption Type: SSL, TLS

2.4.0 Environmental Specification

1. Operating Temperature: -10°C ~ +60°C (+14°F ~ +140°F)
2. Operating Humidity: 0% to 90% non-condensing
3. Vandal-proof Enclosure: Yes
4. Outdoor Ready: IP67

2.5.0 Electrical Specification

1. Power Source: 12VDC, PoE(IEEE 802.3af class 3)
2. Power Consumption: 12.6W
3. Regulatory Approvals: FCC, CE, KC

2.6.0 Mechanical Specification

1. Dimensions (Ø x H): Ø155.0mm x 58.3mm (Ø6.10" x 2.29")

2. Unit Weight: 0.92Kg (2.03lb)

Version History

Version	Writer	Revision Date	Remarks
1.0	Brandon Jo	Sep. 18, 2017	Initial Release
1.1	Daniel Lee	Jan. 15. 2018	Video resolution was modified. (3200 x 3008 → 3200 x 2944)