

One Solution. One Company.

DC-Z1163

Architectural and Engineering Specifications

Version 1.0 (Feb. 11, 2016)

www.idisglobal.com | www.idis.co.kr

©2014 IDIS Co., Ltd. All rights reserved. IDIS and identifying product names and numbers herein are registered trademarks of IDIS Co., Ltd. All non-IDIS brands and product names are trademarks of their respective companies. Product appearance, build status and/or specifications are subject to change without notice.

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

 IDIS Co., Ltd.
IDIS Tower, 344 Pangyo-ro, Bundang-gu Seongnam-si, Gyeonggi-do, 463-400, Korea Tel: +82 31 723 5400 Fax: +82 31 723 5100

2.2.0 General

2.2.1 Product Description

DC-Z1163 is an Indoor Zoom Camera (IP Camera) designed and manufactured by IDIS. This camera provides HD (1280 x 720) resolution at 30ips (images per second) with H.264/MJPEG compression. This camera is equipped with 18x Auto Focus Zoom lens, PoE (IEEE 802.3af class 0), Audio I/O, Alarm I/O, SDHC card backup, flush-type dome enclosure design.

2.2.2 General Specification

- 1. The IP camera shall be equipped with 2 Megapixel 1/2.8" CMOS Sensor.
- 2. The IP camera shall be equipped with 4.7mm 84.6mm auto-focus zoom lens, F1.6 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 (74.7dB).
- 5. The IP camera shall support zoom up to 18x.
- 6. The IP camera shall utilize 2DNR (Dynamic Noise Reduction) technology to reduce the bitrate and storage requirements by removing noise artifacts.
- 7. The IP camera shall be flush type 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 0 to supply power to the camera over the network, 12VDC or 24VAC input.
- 10. The IP camera shall have video out feature (NTSC/PAL) to preview the image only.
- 11. The IP camera shall have on board SDHC card backup storage slot as a safeguard against data loss during network interruptions.
- 12. The IP camera shall be equipped with recording stream buffer memory (60MB) to counter pre/post event buffering and network delays for improved network recording reliability.



- 13. The IP camera shall deliver maximum video resolution of 1280 x 720 at rates up to 30ips (images per second).
- 14. The IP camera shall provide direct network connection using H.264 and MJPEG** compression. (** IDIS protocol only)
- 15. The IP camera shall support quadruple streams in DirectIP protocol mode.
- 16. The IP camera shall support triple streams in IDIS protocol mode.
- 17. The IP camera shall conform to the ONVIF** Profile S Ver.2.4.0 standard. (** IDIS protocol only)
- 18. The IP camera shall be equipped with embedded web server (IDIS Web**) which works independently using a Web Browser with ActivX plug-in. (** IDIS Protocol only)
- 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): 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.264 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 triple streams.
 - C. IDIS protocol shall support H.264 and MJPEG compression.

2.3.0 Technical Specification

2.3.1 Video Specification

- 1. Image Sensor: 1/2.8" CMOS
- 2. Maximum Resolution: 1280 x 720
- 3. Scanning Mode: Progressive Scan
- 4. Lens Type: AF(Auto Focus) Zoom Lens (f=4.7 84.6mm, F1.6 2.8)
- 5. Iris Control: DC Auto Iris
- 6. Angular Field of View (H: Horizontal, V: Vertical, D:Diagonal):
 - A. Wide: 61.2°(H), 35.6°(V), 68.9°(D)
 - B. Tele: 3.6°(H), 2.1°(V), 4.1°(D)
 - C. Zoom Range: x18
- 7. Minimum Illumination:
 - A. Color: 0.1 lux @ F1.6
 - B. B/W: 0.004 lux @ F1.6
- 8. S/N Ratio: 31.2 dB
- 9. Maximum Frame Rate: 30ips @1280 x 720
- 10. Video Resolution:
 - A. DirectIP Protocol Mode: 1280 x 720, 704 x 480, 640 x 360, 352 x 240
 - B. IDIS protocol mode: 1280 x 720, 704 x 480, 352 x 240
- 11. Video Compression : H.264, MJPEG** (** IDIS Protocol only)
- 12. Video Compression Level: 4 levels: Basic, Standard, High, Very High
- 13. Multi-Video Streaming:
 - A. DirectIP Protocol Mode: Quadruple streams
 - B. IDIS Protocol Mode: Triple streams
- 14. Dynamic Range: 74.7dB
- 15. True Day & Night: Yes (ICR)
- 16. Intelligent Video Analytic: Motion Detection, Active Tampering Alarm, Trip Zone
- 17. Analog Video Output: 1 RCA
- 18. Advanced PTZ options:
 - A. The number of preset: 256

2.3.2 Audio Specification

- 1. Audio Compression Algorithm: G.726 (16kHz), G.711 u-Law (8kHz)
- 2. Audio Input / Output: Line-in 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 Base-T 1 port
- 2. Network Protocols:
 - A. DirectIP Protocol Mode: DirectIP Protocol
 - B. IDIS Potocol Mode: RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP, 802.1x (EAP)
- 3. Streaming Mode: Unicast, Multicast

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: 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: 1 TTL open collector, 30mA @ 5 VDC
- 2. Trigger Events: Motion Detection, Alarm in, Audio detection, Tampering, TripZone
- 3. Event Notification: Remote S/W, Email (with Image)
 - A. Encryption Type: SSL, TLS

2.4.0 Environmental Specification

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

2.5.0 Electrical Specification

- 1. Power Source: 12VDC, 24VAC, PoE(IEEE 802.3af class 0)
- 2. Power Consumption: 6W
- 3. Regulatory Approvals: FCC, CE (50130-4), KC, RoHS

2.6.0 Mechanical Specification

- 1. Dimensions (W x H x D): 77.8mm x 75mm x 190.1mm (3.07" x 2.96" x 7.49")
- 2. Unit Weight: 0.71 kg (1.57 lb)

Version History

Version	Writer	Revision Date	Remarks
1.0	TS Team	Feb. 11, 2016	Initial Release