Jan, 2019

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**Product Guide Specification**

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, based on *MasterFormat 2016* and *The Project Resource Manual—CSI Manual of Practice. The Manufacturer is responsible for technical accuracy.*

The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Words and sentences within brackets [ ] are choices to include or exclude a particular item or statement. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

**Video Surveillance**

**IP Cameras**

**NETWORK CAMERA**

1. **– GENERAL**
	1. SUMMARY
		1. Section Includes
			1. Video Surveillance – Surveillance Cameras – Camera Housings
			2. Video Surveillance – Surveillance Cameras – Camera Mounts
			3. Video Surveillance – Video Surveillance Sensors
		2. Related Sections
			1. [Security Detection, Alarm and Monitoring – Security Monitoring and Control – Security Monitoring and Control Software].

\*\*\*\*\*\*\*\*\*\*Specifier’s note: Include those standards referenced elsewhere in this SECTION.

* 1. REFERENCES

|  |  |
| --- | --- |
| Standard | Support |
| CE-LVD:EN60950-1 | **√** |
| CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU | **√** |
| CE-RED:Radio Equipment Directive 2014/53/EU |  |
| FCC:47 CFR FCC Part 15, Subpart B |  |
| FCC ID:FCC PART 15C |  |
| UL/CUL:UL60950-1CAN/CSA C22.2 No.60950-1-07 |  **√** |
| EN50155 |  |
| E-MARK:ECE Regulation 10.05 |  |

* 1. SYSTEM DESCRIPTION
		1. Section Includes
			1. Video Surveillance – Surveillance Cameras – IP Cameras
	2. SUBMITTALS
		1. Product Data:
			1. Manufacturer’s data, user and installation manuals for all equipment and software programs including computer equipment and other equipment required for complete video management system.
		2. Dimensional Drawings; include
			1. Overall device dimensions
			2. Dimensions specific for installation
		3. Closeout Submittals
			1. User manual
			2. Parts list
			3. Maintenance requirements.
	3. QUALITY ASSURANCE
		1. Manufacturer:
			1. Minimum of [10] years of experience in manufacture and design Video Surveillance Devices
		2. Video Surveillance System:
			1. List certifying bodies (UL, etc.)
			2. Provide evidence of compliance upon request.
		3. Installer:
			1. Minimum of [5] years of experience installing Video Surveillance System.
	4. DELIVERY, STORAGE AND HANDLING
		1. Comply with requirements of Section 01 60 00.
		2. Deliver materials in manufacture’s original, unopened, undamaged containers; and unharmed original identification labels.
		3. Protect store materials from environmental and temperature conditions following manufacturer’s instructions.
		4. Handle and operate products and systems according to manufacturer’s instructions.
	5. WARRANTY
		1. Provide manufacturer’s warranty covering [3] years for replacement and repair of defective equipment. Warranty varies country to country.
	6. MAINTENANCE
		1. Make ordering of new equipment for expansions, replacements, and spare parts available to dealers and end users.
		2. Provide factory direct technical support via phone and e-mail.
1. **– PRODUCTS**
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Zhejiang Dahua Vision Technology Co., Ltd.

Address: No.1199 Bin’an Road, Binjiang District, Hangzhou, China

Tel: +86-571-87688883

Fax: +86-571-87688815

Email:overseas@dahuasecurity.com

* + 1. Substitutions:
			1. [All proposed substitutions must be approved by the Architect or Engineer professional.]
			2. [Proposed substitutions must provide a line-by-line compliance documentation.]
	1. MEGAPIXEL Panoramic -NETWORK CAMERA – [DH-PSDW5631SP-B360] [DH-PSDW5631SN-B360] [DH-PSDW5231SP-B120] [DH-PSDW5231SN-B120] [PSDW5631SP-B360] [PSDW5631SN-B360] [PSDW5231SP-B120] [PSDW5231SN-B120]

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| --- | --- |
| Pixel | 2 MP |
| Resolution | 1920×1080 |
| Day & Night | ICR Auto Switch |
| Sensor Type | 1/2.7 inch CMOS |
| Power supply | 12V DC/POE |
| Video compression standard | H.265; H.264; H.264H; H.264B; MJPEG |
| Access Standard | ONVIF; CGI |
| Video Frame Rate | 50 HzMain stream (1920×1080@25 fps), Sub stream (704×576@25 fps)60 HzMain stream (1920×1080@25 fps), Sub stream (704×576@25 fps) |
| Focus | 2.7 mm－13.5 mm  |
| Alarm | Yes |
| Alarm in | 3 channels (Wet contact, and it supports 3V~5V electric potential) |
| Alarm output | 2 channels (Wet contact, and it supports max potential 12V) |
| Audio port | Yes |
| Built-in MIC | Yes |
| Audio in | One Channel (3.5 mm JACK) |
| Audio out | One Channel (3.5 mm JACK) |
| Audio compression standard | G.711a; G.711Mu; G.726; AAC |
| SD card | Yes |
| Storage function | FTP; NAS; Micro SD card (256G) |
| Field of view | Panoramic lens: Horizontal:111.12°; Vertical: 62.28°; Diagonal: 128.72°Close-up lens: Horizontal:105.9°-33.3°; Vertical: 56.0°-18.7°; Diagonal: 126.5°-38.3° |
| Lens iris | Panoramic lens: F2.2; Close-up lens: F1.8 (Wide)-F3.3 (Tele) |
| Min illuminance | Panoramic imageManual 1/30 s 1/25 s (100 IRE)0.188Lux@F2.2 (Color); 0.235Lux@F2.2 (B/W); 0Lux (IR ON)Manual 1/3 s 1/4 s (100 IRE)0.0292Lux@F2.2 (Color); 0.0326Lux@F2.2 (B/W); 0Lux (IR ON)Close-up imageManual 1/30 s 1/25 s (100 IRE)0.138Lux@F1.8 (Color); 0.216Lux@F1.8 (B/W); 0Lux (IR ON)Manual 1/3 s 1/4 s (100 IRE)0.0216Lux@F1.8 (Color); 0.0288Lux@F1.8 (B/W); 0Lux (IR ON)Manual 1/30 s 1/25 s (100 IRE)1.19Lux@F3.3 (Color); 1.36Lux@F3.3 (B/W); 0Lux (IR ON)Manual 1/3 s 1/4 s (100 IRE) 0.136Lux@F3.3 (Color); 0.144Lux@F3.3(B/W); 0Lux (IR ON)Manual 1/30 s 1/25 s (100 IRE)0.298Lux@F2.5 (Color); 0.277Lux@F2.5 (B/W); 0Lux(IR ON)Manual 1/3 s 1/4 s (100 IRE)0.0253Lux@F2.5 (Color); 0.0184Lux@F2.5 (B/W); 0Lux (IR ON) |
| Stream control | CBR; VBR |
| Wide Dynamic | Digital Wide Dynamic |
| BLC (Backlight Compensation) | Yes |
| HLS | Yes |
| WB (White balance) | Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom |
| Noise reduction | 3D noise reduction |
| Privacy masking | 4 areas |
| ROI (Region of interest) | Yes (4 areas) |
| Digital Zoom | 16 |
| Optical Zoom | 4 |
| Resolution | 1080 P (1920×1080); 1.3 M (1280×960); 720 P (1280×720); D1 (704×576/704×480); VGA (640×480); CIF (352×288/352×240) |
| Network protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP |
| Network port | One (Built-in RJ-45 port; Select 10 M /100 M/1000 M Ethernet port) |
| Working temperature |  -10℃-+50℃ |
| Shell material | Metal + Plastic |
| Installation method | Wall Mounting; Hang Mounting; Celling mounting |

1. **– EXECUTION**
	1. EXAMINATION
		1. Examine areas to receive devices and notify adverse conditions affecting installation or subsequent operation.
		2. Do not begin installation until unacceptable conditions are corrected.
	2. PREPARATION
		1. Protect devices from damage during construction.
	3. INSTALLATION
		1. Install devices in accordance with manufacturer’s instruction at locations indicated on the floor drawings plans.
		2. Perform installation with qualified service personnel.
		3. Install devices in accordance with the National Electrical Code or applicable local codes.
		4. Ensure selected location is secure and offers protection from accidental damage.
		5. Location must provide reasonable temperature and humidity conditions, free from sources of electrical and electromagnetic interference.
	4. FIELD QUALITY CONTROL
		1. Test snugness of mounting screws of all installed equipment.
		2. Test proper operation of all video system devices.
		3. Determine and report all problems to the manufacturer’s customer service department.
	5. ADJUSTING
		1. Make proper adjustment to video system devices for correct operation in accordance with manufacturer’s instructions.
		2. Make any adjustment of camera settings to comply with specific customer’s need.
	6. DEMOSTRATION
		1. Demonstrate at final inspection that video management system and devices functions properly.

END OF SECTION