

## 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

#### PART 1 – GENERAL

##### 1.1 SUMMARY

###### A. Section Includes

1. Video Surveillance – Surveillance Cameras – Camera Housings
2. Video Surveillance – Surveillance Cameras – Camera Mounts
3. Video Surveillance – Video Surveillance Sensors

###### B. 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.

##### 1.2 REFERENCES

STANDARD	SUPPORT OR NOT
CE-LVD: EN62368-1	√
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: UL60950-1 CAN/CSA C22.2 No.60950-1-07	√
EN50155	
E-MARK: ECE Regulation 10.05	

### 1.3 SYSTEM DESCRIPTION

#### A. Section Includes

1. Video Surveillance – Surveillance Cameras – IP Cameras

### 1.4 SUBMITTALS

#### A. 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.

#### B. Dimensional Drawings; include

1. Overall device dimensions.
2. Dimensions specific for installation.

#### C. Closeout Submittals

1. User manual.
2. Parts list.
3. Maintenance requirements.

### 1.5 QUALITY ASSURANCE

#### A. Manufacturer:

1. Minimum of [10] years of experience in manufacture and design Video Surveillance Devices.

#### B. Video Surveillance System:

1. List certifying bodies (UL, etc.)
2. Provide evidence of compliance upon request.

#### C. Installer:

1. Minimum of [5] years of experience installing Video Surveillance System.

### 1.6 DELIVERY, STORAGE AND HANDLING

#### A. Comply with requirements of Section 01 60 00.

#### B. Deliver materials in manufacturer's original, unopened, undamaged containers; and unharmed original identification labels.

#### C. Protect store materials from environmental and temperature conditions following manufacturer's instructions.

#### D. Handle and operate products and systems according to manufacturer's instructions.

### 1.7 WARRANTY

- #### A. Provide manufacturer's warranty covering [3] years for replacement and repair of defective equipment. Warranty varies country to country.

### 1.8 MAINTENANCE

#### A. Make ordering of new equipment for expansions, replacements, and spare parts available to dealers and end users.

#### B. Provide factory direct technical support via phone and e-mail.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. 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
- B. 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.]

### 2.2 8 MEGAPIXEL Panoramic -NETWORK CAMERA – [DH-IPC-PFW8840P-A180] [DH-IPC-PFW8840N-A180]

Image Sensor	1/2.8" 8Megapixel progressive CMOS
Pixel	8MP
Max. Resolution	4096 (H) × 1800 (V)
Min. Illumination	0.002 Lux @F1.6
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View	Horizontal ≥180° × Vertical 75°
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Video Frame Rate	Main stream:4096x1800 ( 1~25/30fps ) Sub stream: 1024x452 ( 1~25/30fps ) Third stream:1920x832 ( 1~25/30fps )
Resolution	4096 × 1800; 3840 × 1680; 2880 × 1264; 1024 × 452; 1920 × 832; 1280 × 560
Bit Rate Control	CBR/VBR
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Noise Reduction	3D DNR

Region of Interest (RoI)	Yes (4 areas)
Privacy Masking	4 areas
Audio Interface	Yes
Audio Compression	G.711A; G.711Mu; G.726; AAC; G.723
Alarm	Yes
Network	RJ-45 (10/100/1000 Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Storage	Dahua Cloud (only supported by Dahua version); FTP; SFTP; Micro SD card (support max. 256 G); NAS
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Micro SD Card (Max.)	256 G
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC
Power Supply	12V DC/24V AC/PoE
Operating Temperature	–40°C to +60°C (–40°F to +140°F )
Protection Grade	IP67
Casing	Metal + plastic
Installation	Wall mount; hang mount; pole mount

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas to receive devices and notify adverse conditions affecting installation or subsequent operation.
- B. Do not begin installation until unacceptable conditions are corrected.

### **3.2 PREPARATION**

- A. Protect devices from damage during construction.

### **3.3 INSTALLATION**

- A. Install devices in accordance with manufacturer's instruction at locations indicated on the floor drawings plans.
- B. Perform installation with qualified service personnel.
- C. Install devices in accordance with the National Electrical Code or applicable local codes.
- D. Ensure selected location is secure and offers protection from accidental damage.
- E. Location must provide reasonable temperature and humidity conditions, free from sources of electrical and electromagnetic interference.

### **3.4 FIELD QUALITY CONTROL**

- A. Test snugness of mounting screws of all installed equipment.
- B. Test proper operation of all video system devices.
- C. Determine and report all problems to the manufacturer's customer service department.

### **3.5 ADJUSTING**

- A. Make proper adjustment to video system devices for correct operation in accordance with manufacturer's instructions.
- B. Make any adjustment of camera settings to comply with specific customer's need.

### **3.6 DEMONSTRATION**

- A. Demonstrate at final inspection that video management system and devices functions properly.

**END OF SECTION**