

## 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.

### Section 28 21 00: Video Surveillance Section 28 21 13: IP Cameras

#### Network PTZ Camera

#### PART 1 – GENERAL

##### 1.1 SUMMARY

###### A. Section Includes

1. Section 28 21 17: Video Surveillance – Surveillance Cameras – Camera Housings
2. Section 28 21 19: Video Surveillance – Surveillance Cameras – Camera Mounts
3. Section 28 27 00: Video Surveillance – Video Surveillance Sensors

###### B. Related Sections

1. [Section 28 33 15: Security Detection, Alarm and Monitoring – Security Monitoring and Control – Security Monitoring and Control Software].
- 2.

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

##### 1.2 REFERENCES

STANDARD	CE: EN55032/EN55024/EN50130-4
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### 1.3 SYSTEM DESCRIPTION

#### A. Section Includes

1. Video Surveillance – Surveillance Cameras –Network PTZ Camera

### 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.1399, Binxing Road, Binjiang District, Hangzhou, P.R. China  
 Postcode: 310053  
 Tel: +86-571-87688888 28933188  
 Email: dhoverseas@dhvisiontech.com  
 Website: www.dahuasecurity.com
- B. Substitutions:
- [All proposed substitutions must be approved by the Architect or Engineer professional.]
  - [Proposed substitutions must provide a line-by-line compliance documentation.]

### 2.2 Network PTZ Camera | DH-SD3D216NB-GNY

Camera	Image Sensor	1/2.8" CMOS
Camera	Pixel	2 MP
Camera	Max. Resolution	1920 (H) × 1080 (V)
Camera	Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
Camera	Illumination Distance	80 m (262.47 ft) (IR)
Lens	Focal Length	5.0 mm–80 mm
Lens	Max. Aperture	F1.6–F3.5
Lens	Field of View	H: 54.4°–4.1° ; V: 31.4°–2.3°; D: 61.3°–4.7°
PTZ	Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°
PTZ	Manual Control Speed	Pan: 0.1°–40°/s; Tilt: 0.1°–40°/s
PTZ	Preset Speed	Pan: 0.1°–40°/s; Tilt: 0.1°–40°/s
Smart Event	IVS	Tripwire; intrusion
Intelligence	Smart Tracking	Auto Tracking1.0
Intelligence	Intelligence Type	WizSense
Video	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1)
Video	Video Frame Rate	Main stream: 1080p/1.3M/720p @(1–25/30 fps) Sub stream: D1/VGA/CIF@ (1–25/30 fps)
Video	WDR	120 dB
Video	S/N Ratio	≥55 dB
Power	Power Supply	12 VDC, 2 A ± 10% PoE+ (802.3at)
Environ	Operating	–30 °C to +60 °C (–22 °F to +140 °F)

ment	Temperature	
Environ ment	Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection

## **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**