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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.

**Section 28 21 00: Video Surveillance**

**Section 28 21 13: IP Cameras**

**distributed play box**

1. **– GENERAL**
	1. SUMMARY
		1. 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
		2. Related Sections
			1. [Section 28 33 15: 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

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| STANDARD | CE; FCC; CE RED; FCC ID |

* 1. SYSTEM DESCRIPTION
		1. Section Includes
			1. Video Surveillance – Surveillance Cameras –distributed play box
	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. distributed play box | DHI-DS04-AI400

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| Built-in System | CPU | 4-core RK3288, Cortex-A17 1.6 GHz |
| Built-in System | Operating System | ≥Android 8.1 |
| Built-in System | RAM | 2 GB |
| Built-in System | ROM | 16 GB |
| Function | Information Release Platform | Supports multi-level management and media publishing systems with B/S architecture |
| Function | Information Release | Releases information in real-time such as images, text, rich text, and videos |
| Function | Rolling Titles | Displays rolling titles over the image |
| Function | Play Mode | Supports inter-cut play, specified time play, periodic play and gasket play |
| Function | Play Plan | Play periods can be customized by day, week, or month. |
| Function | Smart Screen Split | Displays images, text and videos at the same time; The screen can be split into 5 windows. |
| Function | Time/Weather | Updates clock and weather information in real-time |
| Device Ports | Network Port | 1 × RJ–45 10/100/1000 M self-adaptive Ethernet port |
| Device Ports | Wi-Fi | Supports 2.4 GHz |
| Device Ports | TF Card Slot | Expandable up to 128 GB |
| Device Ports | USB | 2 × USB 2.0 ports |
| Device Ports | RS-232 | 1 × RJ-45; 1 × RS-232 |
| Device Ports | Video Output | HDMI output, 1-ch@4K (60fps) or 4-ch@1080p |
| Device Ports | Audio Output | 3.5 mm output |
| Device Ports | Others | 1 × operation status indicator light, 1 × power indicator light |
| Device Ports | IrDA | 1 × IrDA，1 × 3.5 mm Infrared data association |
| Button | Button | 1 × reset button |
| General | Power Supply | 12 VDC |
| General | Power Consumption | 2 W |
| General | Operating Temperature | –10 °C to +55 °C (+14 °F to +131 °F) |
| General | Storage Temperature | –20 °C to +60 °C (–4 °F to +140 °F) |
| General | Operating Humidity | 10%–90% |
| General | Storage Humidity | 5%–95% |
| General | Protection | IP20 |
| General | Accessory | 1 × power adapter, 1 × Wi-Fi antenna, 1 × remote control, 1 × quick start guide |
| General | Product Material | Hot-dip galvanized plate with spray coating |
| General | Casing Color (Frame/Rear) | Black |
| General | Packaging Dimensions | 266 mm × 239 mm × 77 mm (10.47" × 9.41" × 3.03") (L × W × H) |
| General | Gross Weight | 870 g (1.92 lb) |
| General | Installation | Wall mount; desk mount |
| General | Display Mode | External display |

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