

# CVIVD-EL2IR28A

## 2MP WDR HDCVI IR Dome Camera



### HDCVI



- 120dB true WDR, 3DNR
- Max 30fps@1080P
- HD and SD dual-output
- 2.8mm fixed lens
- Max. IR length 20m, Smart IR
- IP67, IK10, DC12V



### System Overview

Experience full HD 1080P video while using existing coaxial infrastructure. The camera features 120dB true WDR for applications under complex dynamic range and presents high quality images with clear details and accurate color rendition. It offers multi-language OSD and HD&SD dual-output. The outstanding performance and true WDR feature make the camera an ideal choice for mid to large-size business and common projects where both highly reliable surveillance and construction flexibility are concerned.

### Functions

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\* Audio input is available for some models of HDCVI cameras.

#### Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable.\*

\*Actual results verified by real-scene testing in test laboratories.

#### Simplicity

HDCVI technology inherits the feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

#### Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. The advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

#### Multi-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. Multi-outputs facilitates construction in such situations as debugging through a tester. It also offers the possibility for cooperating with multiple devices including analog matrix or monitor.

#### Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with an IP67 rating, making it suitable for indoor or outdoor environments. The camera complies with IK10 impact resistant rating to provide maximum durability against vandals, making it capable of withstanding the equivalent of 55kg (120lbs) of force. Supporting  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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## Technical Specification

### Camera

|                          |                                         |
|--------------------------|-----------------------------------------|
| Image Sensor             | 1/2.7" CMOS                             |
| Effective Pixels         | 1928(H)×1088(V), 2.1MP                  |
| Scanning System          | Progressive                             |
| Electronic Shutter Speed | PAL: 1.3s~1/30000s<br>NTSC: 1s~1/30000s |
| Minimum Illumination     | 0.03Lux/F2.0, 30IRE, 0Lux IR on         |
| S/N Ratio                | More than 65dB                          |
| IR Distance              | Up to 20m (66feet)                      |
| IR On/Off Control        | Auto / Manual                           |
| IR LEDs                  | 10                                      |

### Lens

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Lens Type            | Fixed lens / Fixed iris                          |
| Mount Type           | Board-in                                         |
| Focal Length         | 2.8mm                                            |
| Max Aperture         | F2.0                                             |
| Angle of View        | H: 90° (115.6°/59.4°)                            |
| Focus Control        | N/A                                              |
| Close Focus Distance | 800mm (500mm, 1800mm)<br>31.50" (19.69", 70.87") |

### DORI Distance

Note: The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

|           | DORI Definition      | Distance         |
|-----------|----------------------|------------------|
| Detect    | 25px/m<br>(8px/ft)   | 2.8mm:40m(132ft) |
| Observe   | 63px/m<br>(19px/ft)  | 2.8mm:16m(53ft)  |
| Recognize | 125px/m<br>(38px/ft) | 2.8mm:8m(26ft)   |
| Identify  | 250ppm<br>(76px/ft)  | 2.8mm:4m(13ft)   |

### Pan / Tilt / Rotation

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Pan/Tilt/Rotation | Pan: 0° ~ 60°<br>Tilt: 0° ~ 80°<br>Rotation: 0° ~ 360° |
|-------------------|--------------------------------------------------------|

### Video

|            |                                     |
|------------|-------------------------------------|
| Resolution | 1080P (1920×1080)                   |
| Frame Rate | 25/30fps@1080P, 25/30/50/60fps@720P |

|                 |                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------|
| Video Output    | 1-channel BNC HDCVI high definition video output &<br>1-channel BNC CVBS video output<br>CVBS tester out |
| Day/Night       | Auto (ICR) / Manual                                                                                      |
| OSD Menu        | Multi-language                                                                                           |
| BLC Mode        | BLC / HLC / WDR                                                                                          |
| WDR             | 120dB                                                                                                    |
| Gain Control    | AGC                                                                                                      |
| Noise Reduction | 2D / 3D                                                                                                  |
| White Balance   | Auto / Manual                                                                                            |
| Smart IR        | Auto / Manual                                                                                            |

### Certifications

|                |                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Certifications | CE (EN55032, EN55024, EN50130-4)<br>FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)<br>UL (UL60950-1+CAN/CSA C22.2 No.60950-1) |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------|

### Interface

|                 |              |
|-----------------|--------------|
| Audio Interface | Built-in Mic |
|-----------------|--------------|

### Eelectrical

|                   |                          |
|-------------------|--------------------------|
| Power Supply      | 12V DC ±25%              |
| Power Consumption | Max 3.5W (12V DC, IR on) |

### Environmental

|                                        |                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| Operating Conditions                   | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH<br>* Start up should be done at above-30°C (-22°F) |
| Storage Conditions                     | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH                                                    |
| Ingress Protection & Vandal Resistance | IP67 & IK10                                                                                          |

### Construction

|              |                              |
|--------------|------------------------------|
| Casing       | Aluminium                    |
| Dimensions   | Φ106mm×50.3mm (Φ4.17"×1.98") |
| Net Weight   | 0.30kg (0.66lb)              |
| Gross Weight | 0.45kg (0.99lb)              |

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## Accessories

Optional:



JB-EL139  
Junction box

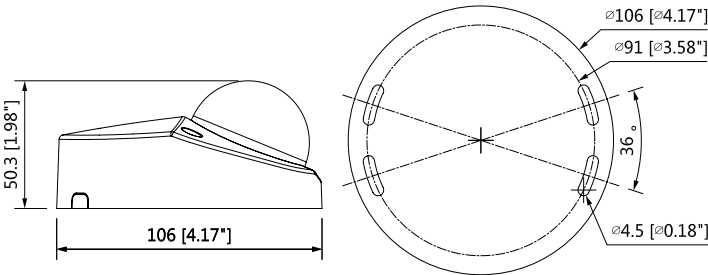


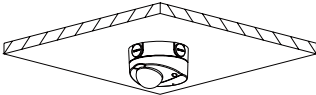
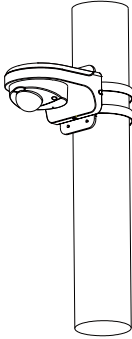
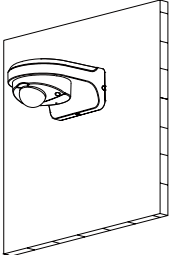
WM-EL204W  
Wall mount



PM-EL152-E  
Pole mount

## Dimensions (mm/inch)



| Junction Mount                                                                     | Pole Mount                                                                         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| JB-EL139                                                                           | WM-EL204W + PM-EL152-E                                                             |
|   |  |
| Wall Mount                                                                         |                                                                                    |
| WM-EL204W                                                                          |                                                                                    |
|  |                                                                                    |