

# IPVD-EL8IRZ

## 8MP IR Dome Network Camera



### System Overview

Upgrade with EcoSavvy products with the H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage and has an energy-saving design to enhance the monitoring system. Meanwhile, the series offers features such as Starlight, Smart IR technology, intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders. This series provides IP67 weatherproof and IK10 vandal-proof protection.

### Functions

#### 4K technology

4K technology is a revolutionary breakthrough which enhances the images, allowing users to experience the best picture quality brought about with the latest products. For our purposes, 4K surveillance offers four times the 1080P resolution, presented to the user with more details.

#### Intelligent Video System (IVS)

With built-in intelligent video analytics, this camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, Facial Detection, and for searching or identification of individuals.

- 1/2.5" 8Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 dual-stream encoding
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~12mm motorized lens
- Max. IR LEDs Length 50m
- IP67, IK10, PoE



### Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow

### Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

### Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. It follows the standard developed around the existing H.264 video coding standard, retains the original technology while some of the new technology improves the relationship between the code stream, encoding quality, and the delay between algorithm complexity. The optimized settings specific content includes: Improved compression efficiency, improved robustness and error recovery capabilities, real-time processing to reduce the delay, reduced channel acquisition time, random access delay, reduce complexity, etc.

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## Technical Specification

### Camera

|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| Image Sensor             | 1/2.5" 8Megapixel progressive scan CMOS                                                |
| Effective Pixels         | 3840(H)x2160(V)                                                                        |
| RAM/ROM                  | 512MB/32MB                                                                             |
| Scanning System          | Progressive                                                                            |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s                                                             |
| Minimum Illumination     | 0.05Lux/F1.4 (Color,1/3s,30IRE)<br>0.2Lux/F1.4 (Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) |
| S/N Ratio                | More than 50dB                                                                         |
| IR Distance              | Distance up to 50m (164ft)                                                             |
| IR On/Off Control        | Auto/ Manual                                                                           |
| IR LEDs                  | 2                                                                                      |

### Lens

|                      |      |                          |            |            |           |
|----------------------|------|--------------------------|------------|------------|-----------|
| Lens Type            |      | Motorized/ Auto Iris(DC) |            |            |           |
| Mount Type           |      | Board-in                 |            |            |           |
| Focal Length         |      | 2.7mm~12mm               |            |            |           |
| Max. Aperture        |      | F1.4                     |            |            |           |
| Angle of View        |      | H:102°~39° , V:55°~22°   |            |            |           |
| Optical Zoom         |      | 4x                       |            |            |           |
| Focus Control        |      | Motorized                |            |            |           |
| Close Focus Distance |      | 0.3m                     |            |            |           |
| DORI Distance        | Lens | Detect                   | Observe    | Recognize  | Identify  |
|                      | W    | 91m(299ft)               | 36m(118ft) | 18m(59ft)  | 9m(30ft)  |
|                      | T    | 228m(748ft)              | 91m(299ft) | 46m(151ft) | 23m(75ft) |

### Pan/Tilt/Rotation

|                         |                                            |
|-------------------------|--------------------------------------------|
| Pan/Tilt/Rotation Range | Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355° |
|-------------------------|--------------------------------------------|

### Intelligence

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| IVS                            | Tripwire, Intrusion, Object Abandoned/Missing |
| Advanced Intelligent Functions | Face Detection                                |

### Video

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression          | H.265+/H.265/H.264+/H.264                                                                                                                                                               |
| Streaming Capability | 3 Streams                                                                                                                                                                               |
| Resolution           | 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/<br>3M(2048×1536)/3M(2304×1296)/1080P(1920×1080) /1.3M(1280×960)/720P(1280×720)/<br>D1(704×576/704×480) /VGA(640×480)<br>CIF(352×288/352×240) |
| Frame Rate           | Main Stream: 4K(1~15fps)/3M(1~25/30fps)                                                                                                                                                 |
|                      | Sub Stream: D1(1~25/30fps)                                                                                                                                                              |
|                      | Third Stream: 720P(1~25/30fps)                                                                                                                                                          |
| Bit Rate Control     | CBR/VBR                                                                                                                                                                                 |
| Bit Rate             | H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps                                                                                                                                            |

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Day/Night                            | Auto(ICR) / Color / B/W                 |
| BLC Mode                             | BLC / HLC / DWDR                        |
| White Balance                        | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control                         | Auto/Manual                             |
| Noise Reduction                      | 3D DNR                                  |
| Motion Detetion                      | Off / On (4 Zone, Rectangle)            |
| Region of Interest                   | Off / On (4 Zone)                       |
| Electronic Image Stabilization (EIS) | N/A                                     |
| Smart IR                             | Support                                 |
| Defog                                | N/A                                     |
| Digital Zoom                         | 16x                                     |
| Flip                                 | 0°/90°/180°/270°                        |
| Mirror                               | Off / On                                |
| Privacy Masking                      | Off / On (4 Area, Rectangle)            |

### Audio

|             |                             |
|-------------|-----------------------------|
| Compression | G.711a/ G.711Mu/ AAC/ G.726 |
|-------------|-----------------------------|

### Network

|                     |                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet            | RJ-45 (10/100Base-T)                                                                                                                           |
| Protocol            | HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP |
| Interoperability    | ONVIF, PSIA, CGI                                                                                                                               |
| Streaming Method    | Unicast / Multicast                                                                                                                            |
| Max. User Access    | 10 Users /20 Users                                                                                                                             |
| Edge Storage        | NAS<br>Local PC for instant recording<br>Mirco SD card 128GB                                                                                   |
| Web Viewer          | IE, Chrome, Firefox, Safari                                                                                                                    |
| Management Software | Smart PSS, DSS, Easy4ip                                                                                                                        |
| Smart Phone         | IOS, Android                                                                                                                                   |

### Certifications

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Certifications | CE (EN 60950:2000)<br>UL:UL60950-1<br>FCC: FCC Part 15 Subpart B |
|----------------|------------------------------------------------------------------|

### Interface

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Video Interface | N/A                                                  |
| Audio Interface | 1/1 channel In/Out                                   |
| RS485           | N/A                                                  |
| Alarm           | 1 channel In: 5mA 5VDC<br>1 channel Out: 300mA 12VDC |

### Electrical

|                   |                              |
|-------------------|------------------------------|
| Power Supply      | DC12V, PoE(802.3af)(Class 0) |
| Power Consumption | <9W                          |

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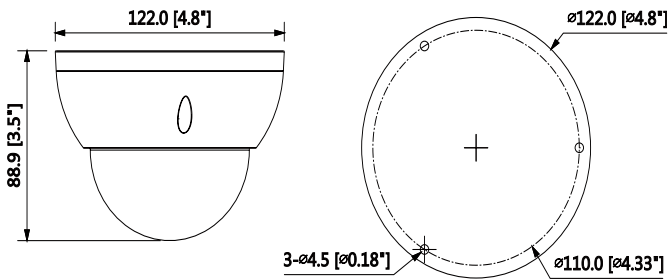
## Environmental

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Storage Conditions   | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Ingress Protection   | IP67                                                  |
| Vandal Resistance    | IK10                                                  |

## Construction

|              |                           |
|--------------|---------------------------|
| Casing       | Metal                     |
| Dimensions   | Φ122mm×88.9mm (4.8"×3.5") |
| Net Weight   | 0.5kg (1.1lb)             |
| Gross Weight | 0.58kg (1.29lb)           |

## Dimensions (mm/inch)



## Accessories

### Optional:



| Wall Mount         | In-ceiling Mount       |
|--------------------|------------------------|
| WM-EL203W          | FM-EL200C              |
|                    |                        |
| Junction Box Mount | Pole Mount             |
| JB-EL137           | WM-EL203W + PM-EL152-E |
|                    |                        |