

# IPOD-ELS2IRZA-EP

## 2MP WDR IR Eyeball Network Camera



- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080(1920×1080)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~13.5mm motorized lens
- Max. IR LEDs Length 50m
- Micro SD card memory, IP67, PoE



### System Overview

With upgraded H.265 encoding technology, the Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features Starlight, smart IR technology, intelligent image analysis techniques, and reminder function. While it's fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

### Functions

#### ePoE technology

The ePoE technology of adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves on construction and wiring costs.

#### Starlight Technology

For challenging low-light applications, the Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

#### Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading Wide Dynamic Range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

#### Protection(IP67, IK10, wide voltage)

The camera allows for  $\pm 30\%$

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## Technical Specification

### Camera

|                          |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| Image Sensor             | 1/2.8" 2Megapixel progressive scan CMOS                                                     |
| Effective Pixels         | 1920(H) x 1080(V)                                                                           |
| RAM/ROM                  | 256MB/32MB                                                                                  |
| Scanning System          | Progressive                                                                                 |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s                                                                  |
| Minimum Illumination     | 0.006Lux/F1.4 ( Color,1/3s,30IRE)<br>0.05Lux/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~13.5mm             |             |            |           |           |
| Max. Aperture        | F1.4                     |             |            |           |           |
| Angle of View        | H: 101°~31°, V:54°~17°   |             |            |           |           |
| Optical Zoom         | 5x                       |             |            |           |           |
| Focus Control        | Motorized                |             |            |           |           |
| Close Focus Distance | 0.3m                     |             |            |           |           |
| DORI Distance        | Lens                     | Detect      | Observe    | Recognize | Identify  |
|                      | W                        | 44m(144ft)  | 18m(59ft)  | 9m(29ft)  | 4m(13ft)  |
|                      | T                        | 143m(469ft) | 57m(187ft) | 28m(92ft) | 14m(46ft) |

### Pan/Tilt/Rotation

|                         |                                            |
|-------------------------|--------------------------------------------|
| Pan/Tilt/Rotation Range | Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360° |
|-------------------------|--------------------------------------------|

### Intelligence

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| IVS (optional)                 | 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           | 1080P(1920x1080)/1.3M(1280x960)/<br>720P(1280x720)/D1(704x576/704x480)/<br>VGA(640x480)/CIF(352x288/352x240) |
| Frame Rate           | Main Stream: 1080P(1~50/60fps)                                                                               |
|                      | Sub Stream: D1(1~50/60fps)                                                                                   |
|                      | Third Stream: 1080P(1~25/30fps)                                                                              |
| Bit Rate Control     | CBR/VBR                                                                                                      |
| Bit Rate             | H.264: 24~9472Kbps H.265: 14~5632Kbps                                                                        |

|                 |                                         |
|-----------------|-----------------------------------------|
| Day/Night       | Auto(ICR) / Color / B/W                 |
| BLC Mode        | BLC / HLC / WDR(120dB)                  |
| White Balance   | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control    | Auto/Manual                             |
| Noise Reduction | 3D D                                    |

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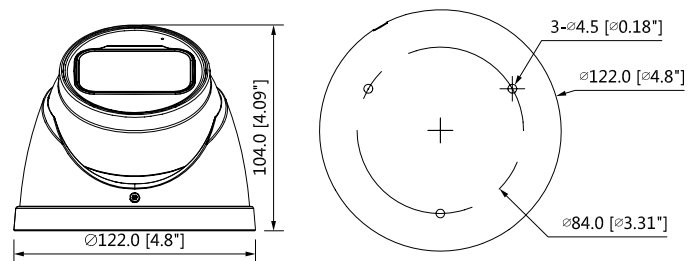
## Environmental

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| 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    | N/A                                                   |

## Construction

|              |                           |
|--------------|---------------------------|
| Casing       | Metal                     |
| Dimensions   | Φ122mm×104mm( 4.8"×4.09") |
| Net Weight   | 0.6Kg (1.32lb)            |
| Gross Weight | 0.76Kg (1.67lb)           |

## Dimensions (mm/inch)



## Accessories

### Optional:



JB-EL137  
Junction Box



WM-EL203W  
Wall Mount



PM-EL152-E  
Pole Mount

| Junction Mount | Pole Mount             |
|----------------|------------------------|
| JB-EL137       | WM-EL203W + PM-EL152-E |
|                |                        |
| Wall Mount     |                        |
| WM-EL203W      |                        |
|                |                        |