

# IPOD-ELES4IRZ

## 4MP Motorized IP Dome



### System Overview

This dome camera has a motorized zoom lens and delivers real-time 30fps video @4MP without pixelation. Thanks to the IP67 weather rating, this camera is dust resistant and protects it against water immersion for up to a half hour. With built-in IR LEDs you can see up to 131 feet away in complete darkness. With a 2.7mm-13.5mm motorized zoom lens, zoom in on an area of concern, allowing you to see up to 5 times your basic view. The latest H.265 coding, works to efficiently compress the video for streaming as well as compress stored.

### Features

#### Smart (H.265+ & H.264+)

Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

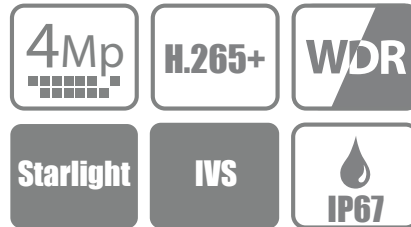
#### Wide Dynamic Range (WDR)

When part of an image is extremely dark but another part is so bright you can't see any details, that's dynamic range—the difference in lighting. Cameras with wide dynamic range (WDR) have special software that allows them to balance that lighting for one clear image. This makes them ideal for recording areas like store entrances where the contrast between the sunshine outside and the dim lighting inside can be extremely difficult to record.

#### Starlight™ Technology

The starlight standard sensor is just like the retina of your eyes which is sensitive to its ambient light, and the image quality is determined by how much light the sensor could use, together with the camera lens. The starlight camera technology uses larger and highly sensitive sensors, wider aperture and reduces the shutter speed to collect enough light for sharp monochrome/color images, even when human eyes couldn't identify a thing. So the starlight camera can see right through the darkness, even when it is challenging for your eyes.

- 4MP, 1/3" CMOS image sensor
- Outputs 4MP (2560 × 1440)@25/30 fps
- H.265 coding, high compression ration, low bit rate
- Built-in IR LED, max IR distance: 40 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Intelligent detection: Intrusion, tripwire
- Max. 256 GB SD card
- 12V DC/POE power support
- IP67 protection



#### Intelligent Video Analysis (IVS)

IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

#### Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## Technical Specification

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Camera                   |                                                              |
| Image Sensor             | 1/3" CMOS                                                    |
| Effective Pixels         | 2688 (H) × 1520 (V)                                          |
| ROM                      | 128 MB                                                       |
| RAM                      | 128 MB                                                       |
| Scanning System          | Progressive                                                  |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100000 s                                 |
| Min. Illumination        | 0.01 Lux@F1.6                                                |
| IR Distance              | 40 m (131.23 ft) (IR)                                        |
| IR On/Off Control        | Auto/Manual                                                  |
| IR LEDs Number           | 2 (IR LED)                                                   |
| Pan/Tilt/Rotation Range  | Horizontal: 0°–355°<br>Vertical: 0°–67°<br>Rotation: 0°–360° |

| Lens                 |      |                                                                 |                      |                      |                     |
|----------------------|------|-----------------------------------------------------------------|----------------------|----------------------|---------------------|
| Lens Type            |      | Motorized vari-focal                                            |                      |                      |                     |
| Mount Type           |      | φ14                                                             |                      |                      |                     |
| Focal Length         |      | 2.7 mm–13.5 mm                                                  |                      |                      |                     |
| Max. Aperture        |      | F1.6                                                            |                      |                      |                     |
| Field of View        |      | Horizontal: 104°–27°<br>Vertical: 55°–15°<br>Diagonal: 124°–31° |                      |                      |                     |
| Optical Zoom         |      | 5 times                                                         |                      |                      |                     |
| Iris Type            |      | Fixed                                                           |                      |                      |                     |
| Close Focus Distance |      | 0.8m–0.8m (2.62 ft–2.62 ft)                                     |                      |                      |                     |
| DORI Distance        | Lens | Detect                                                          | Observe              | Recognize            | Identify            |
|                      | W    | 64 m<br>(209.97 ft)                                             | 25.6 m<br>(83.99 ft) | 12.8 m<br>(41.99 ft) | 6.4 m<br>(21.00 ft) |
|                      | T    | 220 m<br>(721.78 ft)                                            | 88 m<br>(288.71 ft)  | 44 m<br>(144.36 ft)  | 22 m<br>(72.18 ft)  |

|                       |                     |
|-----------------------|---------------------|
| Smart Event           |                     |
| General IVS Analytics | Intrusion; tripwire |

|                   |                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video             |                                                                                                                                                                                                                                                                                          |
| Video Compression | H.265; H.264; H.264B; MJPEG                                                                                                                                                                                                                                                              |
| Smart Codec       | H.264: Yes<br>H.265: Yes                                                                                                                                                                                                                                                                 |
| Video Frame Rate  | 50Hz<br>Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps)<br>Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps)<br>60Hz<br>Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps)<br>Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps) |
| Stream Capability | Main stream; sub stream                                                                                                                                                                                                                                                                  |
| Resolution        | 2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)                                                                         |

|                         |                                                                   |
|-------------------------|-------------------------------------------------------------------|
| Bit Rate Control        | CBR/VBR                                                           |
| Video Bit Rate          | H.264: 32 kbps–6144 kbps<br>H.265: 12 kbps–6144 kbps              |
| Day/Night               | ICR switch                                                        |
| BLC                     | Yes                                                               |
| WDR                     | 120 dB                                                            |
| White Balance           | Auto/natural/street lamp/outdoor/manual/regional custom           |
| Gain Control            | Auto/Manual                                                       |
| Noise Reduction         | 3D DNR                                                            |
| Motion Detection        | Disable/Enable (4 areas, rectangle)                               |
| Region of Interest(Roi) | Yes (4 areas)                                                     |
| Smart IR                | Yes                                                               |
| Image Rotation          | 0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution.) |
| Mirror                  | Yes                                                               |
| Privacy Masking         | 4 areas                                                           |

|                     |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Network             |                                                                                                                                                    |
| Network             | RJ-45 (10/100 Base-T)                                                                                                                              |
| Protocol            | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP |
| Interoperability    | ONVIF (Profile S/Profile G); CGI; Milestone; Genetec                                                                                               |
| User/Host           | 20                                                                                                                                                 |
| Edge Storage        | Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS                                                                                                 |
| Browser             | IE<br>Google<br>Firefox                                                                                                                            |
| Management Software | Smart PSS; DSS; DMSS                                                                                                                               |
| Mobile Phone        | IOS; Android                                                                                                                                       |

|                |                                                                                                                                            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Certification  |                                                                                                                                            |
| Certifications | CE-LVD: EN60950-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL: UL60950-1 CAN |

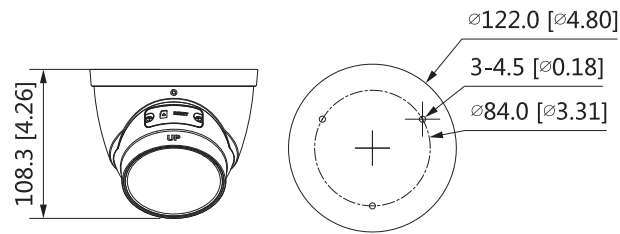
|                   |                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power             |                                                                                                                                                                         |
| Power Supply      | 12V DC/POE                                                                                                                                                              |
| Power Consumption | Basic power consumption: 1.9W (12V DC), 2.2W (POE)<br>Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.5W (12V DC), 6.4W (POE) |

|                       |                                  |
|-----------------------|----------------------------------|
| Environment           |                                  |
| Operating Temperature | -30°C to +60°C (-22°F to +140°F) |
| Operating Humidity    | ≤95%                             |
| Storage Temperature   | -40°C to +60°C (-40°F to +140°F) |
| Storage Humidity      | ≤95%                             |
| Protection            | IP67                             |

Structure

|              |                                     |
|--------------|-------------------------------------|
| Casing       | Metal                               |
| Dimensions   | 108.3 mm × Φ122 mm (4.26" × Φ1.80") |
| Net Weight   | 0.69 kg (1.52 lb)                   |
| Gross Weight | 0.88 kg (1.94 lb)                   |

Dimensions (mm/inch)



Accessories

Optional:



JB-EL130-E  
Junction Box



WM-EL203W  
Wall Mount



PM-EL152-E  
Pole Mount

| Junction Box | Wall Mount | Pole Mount             |
|--------------|------------|------------------------|
| JB-EL130-E   | WM-EL203W  | WM-EL203W + PM-EL152-E |
|              |            |                        |