

# LSE4MPS3-IP-2.7-13.5-IR40

## 4MP WDR Starlight SMD IR Eyeball Camera 2.7~13.5MM Motorized Lens

### System Overview

This IP camera delivers 4MP resolution with a 2.7~13.5mm motorized lens. Attractive camera with easy mounting solutions provides a great choice for a variety of small to mid-size application like public safety, transportation, education and commercial buildings.

### Features

- 1-2.7" 4MP CMOS image sensor
- Low illumination, high image definition
- Up to H.265+ dual-stream encoding
- 4MP (2688 x1520)@30fps, max
- WDR (120dB), Starlight
- 2.7~13.5mm motorized lens
- IR up to 131' (40m)
- IVS: Intrusion, tripwire
- Abnormality detection
- Max 256 GB SD card option
- Built-in Mic
- IP67, PoE
- SMD (Smart Motion Detection)



### Functions

Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.264 video compression.

Wide Dynamic Range (WDR) The camera achieves vivid images, even in the most intense contrast lighting conditions. 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.

Starlight technology helps provide clear video at night or in low light environments.

The camera allows for  $\pm 30\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

This camera operates in extreme temperature environments, rated for use in temperatures from  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ ) with 95% humidity.

Smart Motion Detection (SMD) is an intelligent algorithm and can effectively recognize target types like Cars and Humans and ignore other types of motion like trees, rain, animals etc. This allows for more efficient alarm triggers.

# Specifications

## Camera

|                          |   |
|--------------------------|---|
| Image Sensor             | 1-2.7" 4 Megapixel CMOS                       |
| Effective Pixels         | 2688(H) x 1520(V)                             |
| RAM/ROM                  | 128MB / 512MB                                 |
| Scanning System          | Progressive                                   |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s                    |
| Minimum Illumination     | 0.01Lux/F1.5                                  |
| IR Distance              | Distance up to 131' (40m)                     |
| IR On/Off Control        | Auto/Manual                                   |
| IR LEDs                  | 2   |
| Pan/Tilt Range           | Pan:0° ~360°; Tilt:0° ~78°; Rotation:0° ~360° |

## Lens

|                      |                                   |        |         |           |          |
|----------------------|-----------------------------------|--------|---------|-----------|----------|
| Lens Type            | Motorized vari-focal              |        |         |           |          |
| Mount Type           | M14                               |        |         |           |          |
| Focal Length         | 2.7mm~13.5mm                      |        |         |           |          |
| Max. Aperture        | F1.5                              |        |         |           |          |
| Field of View        | H:104°-27°, V:55°-15°, D:124°-31° |        |         |           |          |
| Focus Control        | Auto                              |        |         |           |          |
| Iris Type            | Fixed aperture                    |        |         |           |          |
| Close Focus Distance | 2.62' (0.8m)                      |        |         |           |          |
| DORI                 | Lens                              | Detect | Observe | Recognize | Identify |
| Distance             | W                                 | 210'   | 84'     | 42'       | 21'      |
| *(estimate)          | T                                 | 728'   | 291'    | 145'      | 72'      |

## IVS

|                      |   |
|----------------------|---|
| Perimeter Protection | Intrusion, tripwire (Recognition of human and vehicle)  |
| Intelligent Search   | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos |

## Video

|                      |   |
|----------------------|---|
| Compression          | H.265+/H.265, H.264+, H.264, MJPEG  |
| Streaming Capability | 3 Streams   |
| Resolution           | 4M(2688x1520)/3M(2304x1296) / 1080P (1920x1080) / 1.3M (1280x960) / 720P (1280x720) / D1(704x576/704x480) / CIF (352x288/352x240) |
| Frame Rate           | 4M (1 ~ 30fps)  |
| Bit Rate Control     | CBR/VBR   |
| Bit Rate             | H.264: 3Kbps ~ 8192Kbps<br>H.265: 3Kbps ~ 8192Kbps  |
| Day/Night            | ICR switch  |
| WDR                  | True WDR (120dB)  |
| White Balance        | Auto/Natural/Street Lamp/Outdoor/Manual   |
| Gain Control         | Auto/Manual   |
| Noise Reduction      | 3D DNR  |
| Motion Detection     | Off / On (4 Zone, Rectangle)  |
| Region of Interest   | Off / On (4 Zone)   |
| Smart IR             | Support   |
| Flip                 | 0°/90°/180°/270°  |
| Mirror               | Off / On  |

|                 |                              |
|-----------------|------------------------------|
| Privacy Masking | Off / On (4 Area, Rectangle) |
|-----------------|------------------------------|

## Audio

|                   |                            |
|-------------------|----------------------------|
| Built-in MIC      | Yes                        |
| Audio Compression | G.711a; G.711Mu; G726; AAC |

## Network

|                  |   |
|------------------|---|
| Ethernet         | RJ-45 (10/100Base-T)  |
| Protocol         | HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP |
| Interoperability | ONVIF, CGI, P2P   |
| Max. User Access | 20 (Total bandwidth:64M)  |
| Edge Storage     | FTP, Micro SD Card 256GB, NAS   |
| Web Viewer       | IE Google, Firefox  |
| Mgt. Software    | Smart PSS, P2P  |
| Smart Phone      | iOS, Android  |

## Certifications

|                |             |
|----------------|-------------|
| Certifications | CE, UL, FCC |
|----------------|-------------|

## Drivers

|                  |                   |
|------------------|-------------------|
| Drivers/Profiles | Control 4, SAVANT |
|------------------|-------------------|

## Interface

|                       |     |
|-----------------------|-----|
| Video/Audio Interface | N/A |
| RS485/Alarm           | N/A |

## Electrical

|                   |             |
|-------------------|-------------|
| Power Supply      | DC12V / PoE |
| Power Consumption | <8.3W       |

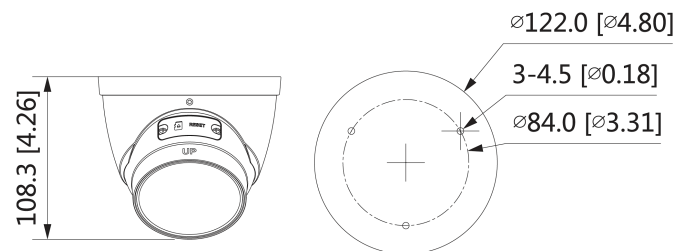
## Environmental

|                      |   |
|----------------------|---|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Storage Conditions   | -40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH |
| Ingress Protection   | IP67  |
| Vandal Resistance    | N/A   |

## Construction

|              |                                 |
|--------------|---------------------------------|
| Casing       | Metal                           |
| Dimensions   | 4.26" x 4.80" (108.3mm x 122mm) |
| Net Weight   | 1.5lb (0.685Kg)                 |
| Gross Weight | 1.8lb (0.828Kg)                 |

## Dimensions



ZM110519 Design and specifications are subject to change without notice