

# LSB4MP-IP-2.7-12-IR60

## 4MP WDR IR Bullet Camera 2.7~12MM Varifocul Lens

### System Overview

This IP camera delivers 4MP resolution with a 2.7~12mm varifocal 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

- 1/3" 4 Megapixel progressive CMOS
- H.264+ & H.264 dual-stream encoding
- 20fps@4M (2688x1520) & 25/30fps@3M (2304x1296)
- WDR (120dB), Day/Night (ICR), 3DNR, AWB, AGC, BLC
- 2.7~12mm motorized varifocal lens
- IR up to 196' (60m)
- Micro SD Card 128GB option
- IP67, PoE



### Functions

Smart H.264+ is the optimized implementation of the H.264 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.264+ 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, 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.

With Smart IR Technology, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 60m (196ft).

The camera allows for  $\pm 10\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. 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.

Image flip. Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in  $90^{\circ}$  increments for better video optimization.

# Specifications

## Camera

Image Sensor	1/3" 4 Megapixel progressive CMOS
Effective Pixels	2688(H) x 1520(V)
RAM/ROM	256MB / 16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.1Lux/F1.4(Color), 0 Lux/F1.4( IR on )
S/N Ratio	More than 50dB
IR Distance	Distance up to 196' (60m)
IR On/Off Control	Auto/Manual
IR LEDs	4

## Lens

Lens Type	Motorized				
Mount Type	Board-in				
Focal Length	2.7mm~12mm				
Max. Aperture	F1.4				
Angle of View	H:100°/35°, V:54°/20°				
Focus Control	Auto				
Close Focus Distance	0.3m				
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	W	223'	89'	49'	23'
*(estimate)	T	193'	253'	128'	62'

## Pan Tilt Range

Pan/Tilt Range	Pan:0° ~360°; Tilt:0° ~90°; Rotation:0° ~360°
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## Video

Compression	H.264+/H.264
Streaming Capability	2 Streams
Resolution	4M(2688x1520)/3M(2304x1296) / 1080P (1920x1080) / 1.3M (1280x960)/ 720P (1280x720) / D1(704x576/704x480) / CIF (352x288/352x240)
Frame Rate	4M (1 ~ 20fps)/3M (1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24K ~ 8192Kbps
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 DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

## Audio

Compression	N/A
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## 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, Bonjour, 802.1x, Multicast
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Web Viewer	IE, Safari
Mgt. Software	Smart PSS, DSS, P2P
Smart Phone	iOS, Android

## Certifications

Certifications	CE, UL, FCC
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## Drivers

Drivers/Profiles	Control 4, SAVANT
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## Interface

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

## Electrical

Power Supply	DC12V PoE(802.3af) (Class 0)
Power Consumption	<12.95W

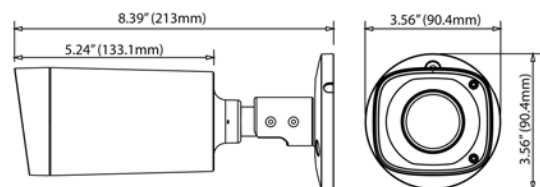
## Environmental

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	2.8" x 3.1" x 8.4" (72mm x 80mm x 212.8mm)
Net Weight	1.51lb (0.685Kg)
Gross Weight	1.90lb (0.86Kg)

## Dimensions



ZM060618 Design and specifications are subject to change without notice