

LSWD4MPS3-IP-2.8-IR50

4MP WDR Starlight IP Wedge Dome Camera 2.8MM Wide View Lens SMD

System Overview

This IP camera delivers 4MP resolution with a 2.8mm fixed lens. Special feature is (SMD) Smart Motion Detection. This more accurately can identify cars and humans in video for motion triggers. Very attractive low profile 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" 4 Megapixel progressive CMOS
- Low illuminance, high image definition
- Up to H.265+ dual-stream encoding
- 4MP (2688 x 1520)@30fps, max
- WDR (120dB), Starlight
- 2.8mm wide view lens
- IR up to 164' (50m)
- IVS: Intrusion, tripwire
- Abnormality detection
- Max 256 GB SD card option
- Built-in Mic
- IP67, IK10 PoE
- SMD



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 colorful 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°C to $+60^{\circ}\text{C}$ (-22°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	512MB / 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.01Lux/F1.6
IR Distance	Distance up to 164' (50m)
IR On/Off Control	Auto/Manual
IR LEDs	8
Pan/Tilt/Rotate Range	Pan:-30° ~30°; Rotation:0° ~360°

Lens

Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8mm				
Max. Aperture	F1.6				
Field of View	H:103°, V:55°, D:122°				
Iris Type	Fixed				
Close Focus Distance	2.95' (0.9m)				
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	2.8mm	183'	73'	36'	18'
*(estimate)	3.6mm	262'	105'	52'	26'

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 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, G.726, 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, 802.1x, Multicast, HTTPS, SFTP, ICMP, IGMP
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, DSS, P2P
Smart Phone	iOS, Android

Certifications

Certifications	CE, UL, FCC
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Drivers

Drivers/Profiles	Control 4, (SAVANT coming soon)
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Interface

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

Electrical

Power Supply	DC12V / PoE
Power Consumption	<5.7W

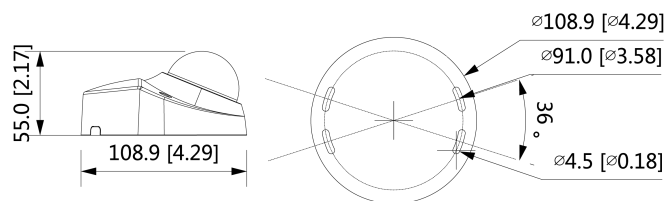
Environmental

Operating Conditions	-40° C ~ +60° C (-40° 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	IK10

Construction

Casing	Metal + Plastic
Dimensions	2.2" x 4.3" (55mm x 108.9mm)
Net Weight	0.8lb (0.38Kg)
Gross Weight	1.1lb (0.52Kg)

Dimensions



ZM112019 Design and specifications are subject to change without notice