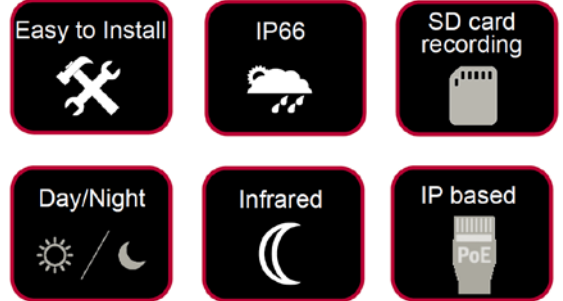


Z series

ZSR8122X

Outdoor HD 35M-Range IR Varifocal IP Camera

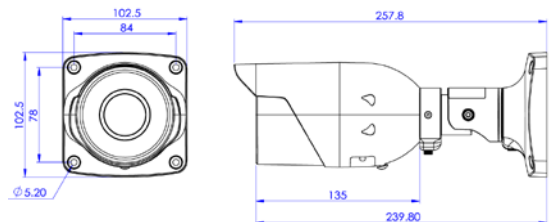


- ▶ Outdoor Bullet Camera
- ▶ IR cut filter for day/night operations
- ▶ IP66 rain and dust resistant
- ▶ 35-meter infrared night vision
- ▶ 1080p resolution @ 60 FPS



Dimensions (unit in mm):

102.5(W) x 102.5(H) x 257.8 (D) approx.
(without bracket)



An Ideal camera for low-light conditions

ZSR8122X is an outdoor varifocal IP camera that provides Full HD resolution at 60fps. It is an ideal camera for difficult lighting conditions. In the combination of WDR, 3D noise reduction, intelligent image signal processing, and the built-in Sense-up+ technology, the camera delivers outstanding image under extreme low-light conditions without any motion blur. This camera is also designed to prevent from rain and dust with its IP66-rated housing, ensuring operation under various demanding weather conditions. ZSR8122X is an excellent choice that feeds your demand in multiple applications.

Product Features

Wide Dynamic Range

A Wide Dynamic Range image is produced by interleaving two shutter line to accommodate details of both the darkest and brightest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality.



Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject of interest. Whether if the subject is moving toward left, right, up, down, or any direction in the screen, BLC will provide the perfect exposure for the subject in front of a strong back light.



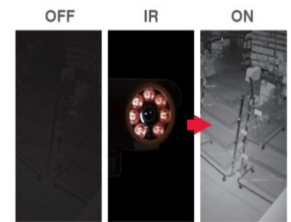
Sense Up+

Sense up+ is able to deliver outstanding video outputs in poor light conditions without experiencing motion blur. With this technology, you can see video more clearly during nighttime when sufficient lighting is lacking.



Built-in IR Illumination

The camera includes infrared (IR) LEDs for IR illumination to provide night vision up to 35 meters.



Video Security App

LILINViewer is available for both Android and iOS devices. This application provides security alarm push notification, real-time live viewing, and remote video playback.



Day and Night Operations via Removal of the IR-cut filter

MR8422X is equipped with a mechanical IR cut filter to increase IR sensitivity and improve nighttime images. The adjustable filter allows day and night operations even in the low lux conditions, and can provide outstanding vision.



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. MR8422X complies with ONVIF Profile S.



Motion Detection

If properly set up, any motion in front of the camera will be detected and saved as an event. Motion in the selected area will provoke an alert



Tamper Detection

This camera automatically detects tampering or failure. Also, an action can be taken when the lens or field of view is partially or completely blocked.



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



SD Cards in Sync with NAV Software

The camera is designed with Micro SD/SDHC/SDXC card slots to provide video playback and recording. You can even synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV).



3D Noise Reduction

This function removes noise occurred in a video. Suppressing noise in low light conditions will retain details in a video and optimize the quality.



Technical Specifications

Outdoor HD 35M IR Range Auto Focus Lens IP Camera (1080p @ 30 FPS)

Video performance

Model#	ZSR8122X
Min. Illumination	0.05 Lux at F1.4 (Color) 0.02 Lux at F1.4 (B/W)
With Infrared LED	0 Lux

Power

Power consumption	DC12V, 15.2W / PoE+, 16.6W
PoE	IEEE 802.3at
Power supply	DC12V ±10% Power over Ethernet (IEEE 802.3at compliant)

Sensor

Sensor type	1/2.86" CMOS image sensor
Total sensor pixels	1952 (H) x 1266 (V) = 2,471,232 pixels

Certifications

CE	Yes
FCC	Yes
IP Rating	IP66 waterproof

PC requirements

CPU	Intel i3 or above
OS	Windows 7, Windows 8, Windows 10
RAM	4GB or above, dedicated graphics card

Mechanical

Dimensions	102.5(W)x102.5(H)x257.8(D) mm approx.
Weight	1030g approx.
Window	Ø75mm Heat Resistant Glass

Input / output

Live video output	CVBS 1.0Vp-p, 75 ohm, connector
Audio input / output	Mono, 1.98Vp-p, Terminal block
Alarm input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA), Terminal block

Video streaming

Video compression	H.264 High/Main Profile, Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 3 configurable streams in H.264 and Motion JPEG, configurable frame rate, bandwidth Codec and GOP
Bitrate	128Kbps – 12Mbps Frame rate and bit rate controllable on-the-fly VBR / CBR / Fixed bitrate mode

Network security

User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption / Digest auth.
IP address filtering	Yes
RTSP Authentication	On / Off

Integration

Mobile application	Supports LILIN mobile app (LILIN Viewer) in both iOS and Android versions
Video management	ONVIF Profile S LILIN Navigator Enterprise 1.0 and 2.0 Third party VMS through LILIN HTTP API
SD card recording	Support Micro SD/SDHC/SDXC (up to 128GB) card for circular recording (card is not included)
Web browser	Microsoft® Internet Explorer® 9.0 and later
Firmware	Firmware upgrade via HTTP, and IP Scan
Alarm event triggers	Motion/Tamper/Audio/Alarm/Network lost detection
Alarm event actions	FTP, HTTP post, SD card, SAMBA
Intelligent Video Surveillance	Motion detection, Tamper detection, Zone Entering, Direction detection, Zone crossing

Environmental

Operating temperature	-40°C – +50°C (-40°F – 122°F)
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Lens / Night vision (infrared LED)

Focal length	2.8 – 12mm	
Iris	F1.4	
Angle of view	H	90° – 36°
	V	49° – 20°
	D	105° – 41°
Distance	35m	
Peak wavelength	850nm	
Beam spread	60°, 90°	

Video resolution (H x V)

1080p	1920 x 1080
1280x960	1280 x 960
720p	1280 x 720
D1	720 x 480, 720 x 576
VGA	640 x 480
CIF	352 X 240

Maximum frame rate	Normal Mode:
	H.264 : up to 60 FPS @ 1920 x 1080, MJPEG : up to 30 FPS @ 720 x 480
	HDR & Defog Mode
	H.264 : up to 30 FPS @ 1920 x 1080, MJPEG : up to 30 FPS @ 720 x 480

Alarm weighted mode	Yes
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Video functions

Day/Night (IR-cut filter)	Color (Day), Monochrome (Night), Auto, Schedule
Scanning system	Progressive scan
Adjustable picture setting	Contrast, Brightness, Saturation
White balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Shutter	1/30(1/25)s to 1/30000s
Back light compensation	On / Off
2D WDR	Off / Auto / x2 / x3 / x4 (by normal mode)
High dynamic range	Up to 120dB (by HDR mode, 2 shutter line interleave)
3D noise reduction	Off / 1 to 32 selectable
Privacy masking	Off / On (4 independent areas)
Sense Up	Off / 1 frame / 2 frames
Sense Up+	Yes
Auto gain control	54 dB variable gain
D/N quality setting	Yes
Other functions	Sharpness, Hue, Image flip, Image mirror, Defog
Auto Focus	One Push

Network

Ethernet	10Base-T/100Base-TX/1000Base-T, RJ-45
Connectivity	ONVIF Profile S / LILIN API (CGI)
Users	10 simultaneous users
OSD	Displays date, time, and camera name
CPU, Memory	Embedded SoC, 1.2GHz Dual ARM Cortex-A9, 1GB DDR3L, 256MB flash memory
Video display	LILIN Universal ActiveX, LILIN Java Applet & HTML5
OS	Embedded Linux 3.8.0
2-way audio supported	G.711 / PCM
Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
Multi IP address	Yes