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## Outdoor HD 30M-Range IR Varifocal IP Camera



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### Features

- Outdoor Bullet Camera
- IR cut filter for day/night operations
- IP66 rain and dust resistant
- 30-meter infrared night vision
- 4MP resolution @ 20 FPS

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### Description

The MR8442X Outdoor HD 30M-Range IR Varifocal IP Camera in the M series features 4MP at 20 frames per second, built-in Sense up+ technology to deliver stunning video in low-light conditions. Utilizing intelligent image signal processing, 2D WDR function, AGC control, and 3D Noise Reduction, the combination successfully delivers ultimate low-light images without motion blur. The IP66-rated housing is designed to prevent the camera from being damaged by rain and dust and ensures operation under various demanding weather conditions. The support of PoE, privacy mask, and White balance, as well as the minimum illumination 0.21 Lux at F1.4 can certainly satisfy multiple applications.

## Specifications

Model	MR8442X
Image Sensor/Sensor type	1/3" CMOS image sensor
Effective pixels	2688(H) x 1520 (V) = 4,085,760 pixels
Video Compression	Smart H.264/ H.264 High/Main Profile, Motion JPEG
Resolution	4MP(2688 x 1520) , 1080p(1920 x 1080) , 1280x960(1280x960) , 720p(1280 x 720) , D1 (720 x 480, 720 x 576) , VGA(640 x 480) , CIF(352 X 240)
Frame Rates	H.264 : up to 20 FPS @ 2688 x 1520, up to 30 FPS @ 1920 x1080 ; H.264 : up to 20 FPS @ 2688 x 1520, up to 30 FPS @ 1920 x1080
Lens	2.8 – 12mm
Angle of View	(H)95°- 33° (V)51°- 18° (D)109°- 38°
Iris	F1.4
Max IR distance	30m
Infrared LED Angle	60°
Video streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 3 configurable streams in H.264 and Motion JPEG, configurable frame rate , bandwidth Codec and GOP
Video bitrate	128Kbps – 12Mbps ; Frame rate and bit rate controllable on-the-fly VBR / CBR / Fixed bitrate mode
Peak wavelength	850nm
Window / Glass Thickness	Ø58mm Heat Resistant Glass
Scanning System	Progressive scan
IR cut filter	Color (Day), Monochrome (Night), Auto, Schedule
Min. illumination/Low Light Mode (Colour)	0.21 Lux at F1.4 (Color) , 0.045 Lux at F1.4 (B/W) ; With Infrared LED 0 Lux

White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2/ Customized adjustable red gain and blue gain function
Back Light Compensation (BLC)	On / Off
Shutter Time	1/30(1/25)s to 1/20000s
Sense Up	Off / 1 frame / 2 frames
Sense Up+	Yes
Auto Gain Control	36 dB variable gain
3D Noise Reduction	Off / 1 to 32 selectable
2D WDR	Off / Auto / x2 / x3 / x4 (by normal mode)
High Dynamic Range(HDR)	Up to 100dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	Off / On (4 independent areas)
Other functions	Sharpness, Hue, Image flip, Image mirror
Lens distortion correction (LDC)	Yes
Encryption	Base64 HTTP encryption / Digest auth.
Access	Multiple user access levels with password protection
User accounts	10 user accounts available
IP address filter	Yes
Multi IP address	Yes
Users	10 simultaneous users
OSD (On-Screen Display)	Displays date, time , and camera name
IVS (Intelligent Video Surveillance)	Advanced motion detection, Tripwire detection, Semaphore + Tripwire detection, Object counting, tamper detection
Alarm event triggers	Motion/Tamper/Network lost detection
Alarm event actions	SMTP (SSL & TLS), FTP, HTTP post, SD card, SAMBA
CPU	Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 32MB flash memory
Firmware	Firmware upgrade via HTTP, and IP Scan
Network Interface/Ethernet	10Base-T / 100Base-TX, RJ-45
CE	Yes

FCC	Yes FCC EMI CLASS B
OS requirement	Windows 7, Windows 8, Windows 10
Web browser	Microsoft® Internet Explorer® 9.0 and later
CPU requirement	Intel i3 or above
RAM requirement	4GB or above, dedicated graphics card
Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour
Mobile phone	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
Video Display	LILIN Universal ActiveX , LILIN Java Applet & HTML5
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
OS	Embedded Linux 3.10
SD Card (recording)	Support Micro SD/SDHC/SDXC (up to 128GB) card for circular recording (card is not included)
IP Rating	IP66 waterproof
Vandal Resistant Rating / IK Rating	IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)
Dimensions	68mm(W) x 69mm(H) x 214mm(D) approx.
Weight	490g approx.
Power Supply	DC12V ±10% , Power over Ethernet (IEEE 802.3af compliant)
PoE	IEEE 802.3af
Power Consumption	DC12V, 8.4W / PoE, 10W