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## 4MP Day & Night Auto Focus IR IP Bullet Camera



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### Features

- Full HD 4.0 megapixel CMOS image sensor
- 4MP True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- Auto focus with zoom / focus motorized lens
- P-iris supported
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 100dB
- Digital PTZ supported
- IVS supported
- Tampering / Motion detection alarm function
- High efficiency IR LED, radiant distance up to 50m
- Day & Night (IR cut removable)
- ONVIF Profile S supported
- 2-way audio supported
- Digital I/O : 1 in, 1 out

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### Description

As with all Z series Auto Focus cameras, the Day & Night 4MP HD AF Bullet IR IP Camera ZMR7442X-P incorporates Sense up+, a unique technology that successfully delivers stunning video in low-light conditions. Utilizing intelligent image signal processing, AGC control, and 3D Noise Reduction, this model successfully delivers the ultimate low-light image without motion blur. Offering flexible Auto Focus installation feature, ZMR7442X-P fits into a range of environments such as retail, home, office, and hotel security. The ZMR7442X-P is capable of producing four independent video streams, different streams can be set for different applications, depending on the individual user requirements. The IP66-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions.

## Specifications

Model	ZMR7442X-P
Min. illumination/Low Light Mode (Colour)	Color : 0.2 Lux at F1.4 , B/W : 0.04 Lux at F1.4 , 0 Lux with IR LED ON
2D WDR	Off / Auto / x2 / x3 / x4 (by normal mode)
Power Consumption	DC12V, 13.5W PoE+, 14.5W
Power Supply	DC12V ±10% , PoE+ (IEEE 802.3at compliant)
Pick Up Element	1/3" CMOS image sensor
Effective pixels	2688 (H) x 1520 (V) = 4,085,760 (pixels)
IP Rating	IP66
CE	Yes, EMI CLASS B
FCC	Yes, EMI CLASS B
Lens	2.8 – 12 mm (zoom / focus motorized)
Iris	F1.4(W) ~ F2.8(T), P-IRIS
Angle of View	H : 94.8° (W) – 36.4° (T) , V : 51.9° (W) – 20.6° (T) , D : 110.5° (W) – 42.0° (T)
Max IR distance	50m
Peak wavelength	850nm
Beam Spread	60°, 90°
Operating temperature	-10°C – +50°C (14°F – 122°F)

CPU	Intel® Core™ i3 or higher grade
OS requirement	Windows 7 or above
RAM requirement	4GB or above, Dedicated Graphics Card
Dimensions	Body : 121.5mm(W) × 109mm(H) × 231mm(D), Bracket : 160mm(L)
Weight	1700g approx.
Live Video Output	CVBS 1.0Vp-p, 75 ohm, connector
Audio Input / Output	Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block
Alarm Input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA), Terminal block
Max number of online users	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base64 HTTP encryption, HTTPS encryption
Video Compression	H.264 main and high profile, Motion JPEG
Video streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Video bitrate	128Kbps – 12Mbps ; Frame rate and bit rate controllable on-the-fly ; VBR / CBR / GOP supported, Fixed bitrate, Smart H.264
Resolution	4MP (2688x1520) , 3.6MP (2560x1440) , 3MP (2304x1296) , 1080p(1920x1080) , 1280x960 , 720p(1280x720) , D1(720x480, 720x576) , CIF(640x480, 352x240)
Frame Rates	H.264 / MJPEG : up to 20 fps @ 2688 × 1520
Infrared Cut Filter	Auto / Schedule / Day (Color) / Night (Mono)
Scanning System	Progressive Scan
Auto Focus	One Push
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Custom
Electrical Shutter	1/30(1/25)s – 1/20000s
3D Noise Reduction	Off / 1 – 32 Selectable

S / N Ratio	More than 50dB (AGC off)
High Dynamic Range(HDR)	Up to 100dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	Off / On (4 zones)
Sense Up	Off / 1 Frame / 2 Frames
Auto Gain Control	36 dB Variable Gain
Other functions	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Lens Distortion Correction
Mobile phone	Integrated to LILIN mobile app (LILIN Viewer), iPhone, iPad, Android support
Video Management	ONVIF Profile S, LILIN Navigator Enterprise 2.0, Third party VMS through LILIN HTTP API
SD Card (recording)	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)
Web browser	Microsoft® Internet Explorer® 9.0 and later
Firmware	Firmware update via HTTP and IP Scan , Firmware available at web site
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
Alarm event triggers	Motion / Tamper / Audio / Alarm / Network lost detection
Alarm event actions	FTP / SMTP / HTTP post / SD card / SAMBA / SMTP Trap / Alarm Output
Network Interface/Ethernet	10/100 Mbps Base-T (Tx), RJ-45
User accounts	10 simultaneous users
ePTZ & Digital Zoom	Yes, ROI is supported
OSD	Text overlay for date, time, and camera name
CPU.Memory	Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 256MB flash memory
Video Display	LILIN Universal ActiveX & HTML5
Network OS	Embedded Linux 3.10

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Audio	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
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, SIP, 802.1x, SSL/TLS
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese

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