

ZHR8182EX2 4K Day & Night Auto Focus IR Bullet IP Camera

www.meritlilin.com

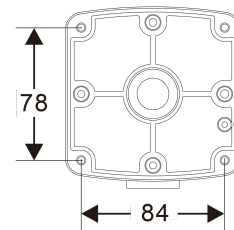
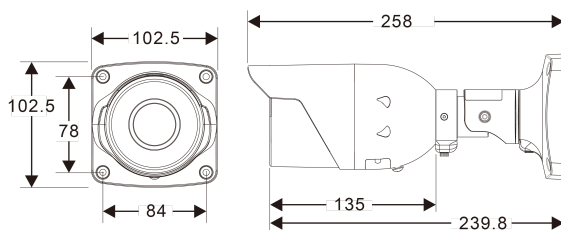


- ▶ 4K Ultra High Definition resolution
- ▶ 4K True H.264 AVC High Profile video compression
- ▶ H.264 and Motion JPEG multi-profile video streaming
- ▶ Auto focus with zoom / focus motorized lens
- ▶ 3D noise reduction (MCTF)
- ▶ 2D WDR function
- ▶ HDR function up to 100dB
- ▶ Digital PTZ supported
- ▶ IVS supported
- ▶ Motion / Tamper / Audio / Alarm / Network lost detection function
- ▶ High efficiency IR LED, radiant distance up to 55m Day & Night (IR cut removable)
- ▶ 2-way audio supported
- ▶ Digital I/O : 1 in, 1 out
- ▶ Cable managed housing and bracket
- ▶ ONVIF Profile S supported
- ▶ IP68 rain and dust resistant

Dimensions

102.5(W) × 102.5(H) × 258(D) mm

Diagram of mounting holes:(unit in mm)



Wind and Rain Standards

Meet international IP68 standards for dust and moisture resistant allowing you to install cameras in environments subject to wind and rain



Impact Resistant

IK10-certified housing designed to protect the camera from destructive behavior



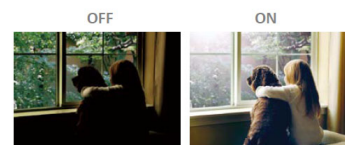
Day and Night Operations via Removal of the IR-cut filter

ZHR8182EX2 camera was designed using a mechanical IR cut filter for increased IR sensitivity resulting in improved night time images. The removable IR-cut filter allows day and night operations even in the low lux condition providing outstanding vision



Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject in the foreground. No matter if the main object is moving toward left, right, upper, lower, or any location in the screen, BLC provides perfect exposure for an object in front of strong back light



Sense Up+

Deliver outstanding video outputs in poor light conditions without experiencing motion blur. You can see video clearly even during nighttime without sufficient lighting support



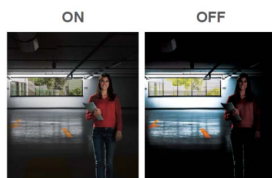
3D Noise Reduction

Remove noise from a signal. Suppressing noise in an image in low light conditions and able to retain quality videos at the same time



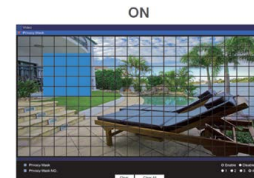
Wide Dynamic Range (WDR)

Wide Dynamic Range (WDR) displays details of both the brightest and darkest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality



Privacy Masking

Privacy Masking is a feature used to protect personal privacy by concealing private areas in the camera's field of view. Doorways and house windows for example are not subject to surveillance



Auto Focus feature

Use the camera software to trigger the auto focus function at any time during installation or after. Auto Focus feature to automatically focus the camera from a distant location, which eases the process on installation and helps you effectively position the camera at the right focus angle in a matter of seconds



Video Security App

Available on Android and iOS – LILIN Pro app provides security alarm push notification, real-time live viewing, and remote video playback



SD Cards in Sync with NAV Software

ZHR8182EX2 camera with built-in Micro SD/SDHC/SDXC card slots can provide redundant video viewing and recording. You can synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



Advanced Motion Detection

Detect motion and capture the events. Motion in the selected area will provoke an alert. Time of motion in given direction can be detected by simply drawing an arrow on the video



4K Day & Night Auto Focus IR Bullet IP Camera	
Video Performance	
Model	ZHR8182EX2
Min. Illumination	Color : 0.5 Lux at F1.5 at 30% LSB ; B/W : 0.05 Lux at F1.5 at 30% LSB (Sense Up ON) ; 0 Lux with IR LED ON
Power and Environment	
Starting Temperature	-10°C – +50°C (14°F – 122°F)
Operating Temperature	-40°C – +50°C (-40°F – 122°F)
Storage Temperature	-25°C – +60°C (-13°F – 140°F)
Humidity	0% – 90% RH
Power Supply	DC12V ±10% / PoE+ (IEEE 802.3at compliant)
Power Consumption	DC12V, 17W / PoE+, 18.5W
Lens / Night vision (infrared LED)	
Focal Length	3.6mm – 10mm (zoom / focus motorized)
Iris	F1.5(W) – F2.8(T), DC IRIS
Iris Control	DC-IRIS
Angle of View	98° (W) – 42° (T) (H) 54° (W) – 24° (T) (V) 113° (W) – 48° (T) (D)
Peak Wavelength	850nm
Beam Spread	30°, 60°
Radiant Distance	55M
Sensor	
Pick Up Element	1/1.7" CMOS image sensor
Effective Pixels	4072 (H) × 3046 (V) = 12,403,312 (pixels)
Certifications	
CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A
IP Rating	IP68
Vandal Resistant Rating	IK10
PC Requirements	
CPU	Intel® Core™ i5 or higher grade
OS	Windows 7 or above
RAM	8GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9 or above
Mechanical	
Dimension	102.5(W) × 102.5(H) × 258(D) mm
Weight	1050g approx.
Window	Ø64 Heat Resistant Glass & Rain repellent glass
Input / Output	
Audio Input / Output	Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block
Audio	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
Alarm Input / Output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA)
Live Video Output	CVBS 1.0Vp-p, 75 ohm, RCA connector
Video Streaming	
Video Compression	H.264 main and high profile, Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.264 and Motion JPEG, configurable frame rate, bandwidth Codec and GOP
Number of streams	4
Video Bitrate	128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported; Fixed bitrate
Network Security	
Encryption	Base64 HTTP encryption, HTTPS encryption
Authentication	Digest HTTP authentication, RTSP authentication, 802.1x, DDNS via HTTPS
Address Filter	IP address filter, MAC address filter
Access	Multiple user access levels with password protection
User accounts	10 simultaneous users
Multi IP address	Yes

Video Resolutions (H x V)	
Resolution	4K(3840 × 2160), 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240)
Maximum Frame Rate	Single-stream mode, H.264 : up to 30 fps @ 3840 × 2160 (Video only support preview mode) Multi-stream mode, H.264 : up to 24 fps @ 3840 × 2160, 30 fps @ 1920 × 1080, MJPEG : up to 30 fps @ 1920 × 1080
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Custom
Back Light Compensation	On / Off
Electrical Shutter	1/30(1/25)s – 1/30000s
Sense Up	Off / 1 Frame / 2 Frames
Sense Up+	Yes
Auto Gain Control	42 dB Variable Gain
S/N Ratio	More than 50dB (AGC off)
3D Noise Reduction	Off / 1 – 32 Selectable
2D WDR	Off / Auto / x2 / x3 / x4 (by normal mode)
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Auto Focus	One push
Smart IR	Off / On
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro) 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)
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at website
IVS Advanced 2.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection
Event Triggers	Motion / Tamper / Audio / Alarm / Network lost detection
Event actions	FTP / SMTP / HTTP post / SD card / SAMBA / SMTP Trap / Alarm Output
Alarm weighted mode	Off / On
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
Network	
Ethernet	10/100/1000 Mbps Base-T (Tx), RJ-45
ePTZ & Digital Zoom	Yes, ROI (Region of Interest)
OSD	Text overlay for date, time and camera name
CPU, Memory	Embedded SoC, 1.0GHz Dual ARM Cortex-A9 & 600MHz ARM11, 1GB DDR3, 256MB flash memory
OS	Embedded Linux 3.8.8
Network Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTP, Telnet, ICMP, IGMP, ONVIF Profile S, Bonjour, SIP, 802.1x, SSL/TLS
Max number of online users	10 simultaneous users
Video Display	LILIN Universal ActiveX & HTML5