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## 1080P Day & Night Auto Focus IR IP Bullet Camera



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### Features

- Full HD 2 megapixel CMOS image sensor
- 2MP H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- Auto focus with zoom / focus motorized lens
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 100dB
- Digital PTZ supported
- IVS supported
- Tampering / Audio / Alarm / Motion / Network lost detection event function
- High efficiency IR LED, radiant distance up to 30m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S supported
- IP67 rain and dust resistant
- Vandal resistant approve

## Specifications

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|---|---|
| Model                                     | Z2R8822AX   |
| Min. illumination/Low Light Mode (Colour) | Color : 0.007 Lux at F1.6 ; B/W : 0.002 Lux at F1.6 ; 0 Lux with IR LED ON      |
| 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)   |
| Operating humidity                        | 0% – 90% RH   |
| Power Supply                              | DC12V ±10% / PoE (IEEE 802.3af compliant)                                       |
| Power Consumption                         | DC12V, 6.9W / PoE, 9.2W   |
| Lens                                      | 2.8 – 8 mm (zoom / focus motorized)   |
| Iris                                      | F1.6  |
| Iris Control                              | Fixed IRIS  |
| Angle of View                             | 108.1° (W) – 56.7° (T) (H) 57.6° (W) – 31.6° (T) (V) 130.4° (W) – 64.8° (T) (D) |
| Peak wavelength                           | 850nm   |
| Beam Spread                               | 60°, 90°  |
| Max IR distance                           | 30M   |
| Pick Up Element                           | 1/2.8" CMOS image sensor  |
| Effective pixels                          | 1945 (H) × 1097 (V) = 2,133,665 (pixels)  |
| CE  | Yes, EMI CLASS B  |
| FCC                                       | Yes, EMI CLASS B  |
| IP Rating                                 | IP67  |
| Vandal Resistant Rating / IK Rating       | IK10  |
| CPU                                       | Intel® Core™ i7 or higher grade   |
| OS  | Embedded Linux 3.10   |
| RAM                                       | 8GB or above, Dedicated Graphics Card   |
| Web browser                               | Microsoft® Internet Explorer® 9 or above  |
| Dimensions                                | 74(W) × 69(H) × 189(D) mm   |
| Weight                                    | 575g  |

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|--------------------------|--|
| Casing Material          | Aluminum alloy   |
| Window / Glass Thickness | Ø58 Heat Resistant Glass   |
| Audio Input / Output     | Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block   |
| Audio                    | Two-way Audio, G.711 u-law / PCM / AAC, SIP, External<br>Microphone Required   |
| Alarm Input / output     | Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay<br>contact N.O., Load.max.<br>40VDC,450mW/300mA,450mW), Terminal block                |
| Video Compression        | H.265/HEVC main profile, H.264 main and high profile<br>, Motion JPEG  |
| Video streaming          | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4<br>configurable streams in H.265 and H.264 and Motion<br>JPEG, configurable frame rate and bandwidth |
| Number of streams        | 4  |
| Video bitrate            | 128Kbps – 12Mbps; Frame rate and bit rate<br>controllable on-the-fly; VBR / CBR / GOP supported,<br>Fixed bitrate, Smart H.264/H.265         |
| Encryption               | Base64 HTTP encryption, HTTPS encryption   |
| Authentication           | Digest HTTP authentication, RTSP authentication,<br>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  |
| Resolution               | 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 ×<br>720), D1(720 × 480, 720 × 576), VGA(640 × 480),<br>CIF(352 × 240)                         |
| Frame Rates              | Normal mode 60Hz: 60 fps @ 1920 × 1080 50Hz: 50<br>fps @ 1920 × 1080 HDR mode 60Hz: 30 fps @ 1920 ×<br>1080 50Hz: 25 fps @ 1920 × 1080       |
| Scanning System          | Progressive Scan   |

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| Infrared Cut Filter              | Auto / Day (Color) / Night (Mono) / Schedule   |
| White Balance                    | ATW-NARROW / ATW-WIDE / AWC(MANUAL)  |
| Back Light Compensation (BLC)    | Yes  |
| Electrical Shutter               | 1/30(1/25)s – 1/30000s   |
| Sense Up                         | Off / x2 / x4 / x8 / x16 / x32   |
| Sense Up+                        | Yes  |
| Auto Gain Control                | 66 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) Support<br>Onvif  |
| High Dynamic Range(HDR)          | Up to 100dB (by HDR mode, 2 shutter line interleave)   |
| Privacy Masking                  | Off / On (4 zones)   |
| Image Effects                    | Brightness, Contrast, Hue, Saturation, Sharpness,<br>Mirror, Flip, Rotation, Overexposure Reduction                                  |
| Auto Focus                       | One Push   |
| EV (Exposure Value)              | Adjustable   |
| Lens distorsion correction (LDC) | Yes  |
| Mobile phone                     | Integrated to LILIN mobile app (LILIN Viewer), iPhone,<br>iPad, Android support  |
| Video Management                 | ONVIF Profile S / IVS events, LILIN Navigator<br>Enterprise 2.0 support, Third party VMS through LILIN<br>HTTP API                   |
| SD Card (recording)              | Support (128GB) Micro SD/SDHC/SDXC card for<br>circular recording (card is not included)   |
| Maintenance                      | Firmware update via HTTP and IP Scan; Firmware<br>available at web site  |
| IVS Basic 1.0                    | Motion Detection, Tampering Detection, Advanced<br>Motion Detection, Traffic Light Detection, Tripwire<br>Detection, Object Counting |

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| Alarm event triggers       | Motion / Tamper / Network lost detection / SmartEvent  |
| Alarm event actions        | FTP / SMTP / HTTP post / SD card / SAMBA / Alarm / SNMP Trap / Push Service notification   |
| Languages                  | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese  |
| Network Interface/Ethernet | 10/100 Mbps Base-T, RJ-45  |
| ePTZ & Digital Zoom        | Yes, ROI (Region of Interest)  |
| OSD                        | Position configurable text overlay for date, time, camera ID, event status and watermark with customizable user demand data  |
| CPU.Memory                 | Embedded SoC ARM Cortex-A9, 816MHz, 512MB DDR3L, 256MB flash memory  |
| Network OS                 | Embedded Linux 3.10  |
| Protocols                  | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT, QoS, SNMP V1/V2/V3, SNMP Trap and heart beat, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S , SDDP, Bonjour , 802.1x, SSL/TLS |
| Max number of online users | 10 simultaneous users  |
| Video Display              | LILIN Universal ActiveX , LILIN Java Applet  |
| Watermark                  | BMP logo   |
| Log                        | Event & operation log & IVS event log  |
| Schedule                   | Support holiday list   |
| Network Storage            | NAS (Support SAMBA/CIFS)   |