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## 5MP Day & Night Auto Focus IR Bullet IP Camera



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### Features

- 5 megapixel CMOS image sensor
- 5MP 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
- P-IRIS supported
- Smart H.264/H.265 supported
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 120dB
- Digital PTZ supported
- IVS supported
- Tampering / Audio / Alarm / Motion / Network lost detection event function
- SMART event
- High efficiency IR LED, radiant distance up to 40m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- Cable managed housing and bracket
- ONVIF Profile S, Profile T and Profile G supported
- IP68 rain and dust resistant
- Vandal resistant approve

## Specifications

|                                           |                                                                                                                            |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Model                                     | Z2R8152X-P                                                                                                                 |
| Min. illumination/Low Light Mode (Colour) | Color : 0.01 Lux at F1.4 ; B/W : 0.005 Lux at F1.4 ; 0 Lux with IR LED ON                                                  |
| Focal Length                              | 2.8 – 12 mm (zoom / focus motorized)                                                                                       |
| Iris                                      | F1.4 (W) – F2.8 (T)                                                                                                        |
| Iris Control                              | P-IRIS                                                                                                                     |
| Angle of View                             | 87° (W) – 30°(T) (H) 62° (W) – 23°(T) (V) 114° (W) – 37° (T) (D)                                                           |
| Peak wavelength                           | 850nm                                                                                                                      |
| Beam Spread                               | 60° , 90°                                                                                                                  |
| Max IR distance                           | 40M                                                                                                                        |
| Pick Up Element                           | 1/2.8" CMOS image sensor                                                                                                   |
| Effective pixels                          | 2616 (H) × 1964 (V) = 5,137,824 (Pixels)                                                                                   |
| CE                                        | Yes, EMI CLASS B                                                                                                           |
| FCC                                       | Yes, EMI CLASS B                                                                                                           |
| UL                                        | Yes                                                                                                                        |
| IP Rating                                 | IP68                                                                                                                       |
| Vandal Resistant Rating / IK Rating       | IK10                                                                                                                       |
| CPU                                       | Intel® Core™ i7 or higher grade                                                                                            |
| OS                                        | Windows 7 or above                                                                                                         |
| RAM                                       | 8GB or above, Dedicated Graphics Card                                                                                      |
| Web browser                               | Microsoft® Internet Explorer® 9 or above                                                                                   |
| Audio Input / Output                      | Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block                                                                                   |
| Audio                                     | Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required                                                  |
| Alarm Input / output                      | Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay 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, DDNS via<br>HTTPS                                                                                                                                       |
| Authentication          | Digest HTTP authentication, RTSP authentication, TLS,<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 user accounts available                                                                                                                                                                        |
| Multi IP address        | Yes                                                                                                                                                                                               |
| Resolution              | 5MP(2592 × 1944), 4MP(2304 × 1728), 3.1MP(2048 ×<br>1536), 3MP(2304 × 1296), 2MP(1920 × 1080),<br>1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480,<br>720 × 576), VGA(640 × 480), CIF(352 × 240) |
| Maximum Frame Rate      | Normal mode: up to 25 fps @ 2592 × 1944<br>HDR mode: up to 25 fps @ 2592 × 1944                                                                                                                   |
| Scanning System         | Progressive Scan                                                                                                                                                                                  |
| Infrared Cut Filter     | Auto / Day (Color) / Night (Mono) / Schedule                                                                                                                                                      |
| White Balance           | ATW-NARROW / ATW-WIDE / AWC(MANUAL)                                                                                                                                                               |
| Back Light Compensation | Yes                                                                                                                                                                                               |
| Electrical Shutter      | 1/30(1/25)s – 1/30000s                                                                                                                                                                            |
| Sense Up                | Off / x2 / x4 / x8 / x16                                                                                                                                                                          |
| Sense Up+               | Yes                                                                                                                                                                                               |
| Auto Gain Control       | 60 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 120dB (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                                                                                                                                                                                                                    |
| Smart IR                         | Yes                                                                                                                                                                                                                         |
| EV (Exposure Value)              | Adjustable                                                                                                                                                                                                                  |
| Lens distortion correction (LDC) | Yes                                                                                                                                                                                                                         |
| Mobile Application               | Integrated to LILIN mobile app (LILIN Viewer) iPhone,<br>iPad, Android support                                                                                                                                              |
| Video Management                 | ONVIF Profile S / ONVIF Profile T / ONVIF Profile G /<br>IVS events, LILIN Navigator Enterprise 2.0 support,<br>Third party VMS through LILIN HTTP API                                                                      |
| SD Card (recording)              | Support Micro SD/SDHC/SDXC card for circular<br>recording (card is not included)                                                                                                                                            |
| SD Card Compatible List          | Micron -<br>32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1, C10)<br><br>Transcend -<br>4GB SD,8GB SDHC,32GB SDHC C10,128GB SDXC C10<br><br>SanDisk -<br>8GB SDHC, 32GB, 64GB, 128GB SDHC C10<br><br>Kingston -<br>64GB SDXC C10 |
| Maintenance                      | Firmware update via HTTP and IP Scan; Firmware<br>available at website                                                                                                                                                      |

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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IVS Basic 1.0               | 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                                                                                                                                                       |
| IVS Advanced 2.2 (Optional) | Detection Zone for Car and Human                                                                                                                                                                                                                                  |
| Alarm event triggers        | Motion / Tamper / Audio / Alarm / 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 (Tx), 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, ONVIF Profile T, ONVIF Profile G, 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)                                        |
| 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% (Terminal connector) / PoE+ (IEEE 802.3at compliant) |
| Power Consumption        | DC12V, 12.5W / PoE+, 14.5W                                      |
| Dimensions               | 102.5(W) × 102.5(H) × 258(D) mm                                 |
| Weight                   | 1020g                                                           |
| Casing Material          | Aluminum alloy                                                  |
| Window / Glass Thickness | Ø75 Heat Resistant Glass                                        |