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## 12MP Day & Night Fixed IR Vandal Resistant Panoramic IP Camera



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### Features

- 12 megapixel CMOS image sensor
- Certified Immersion Enables (RPL code C9VVT)
- H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- Smart H.264/H.265 supported
- 3D noise reduction (MCTF)
- 2D WDR function
- Digital PTZ supported
- IVS supported
- Tampering / Motion / Network lost detection event function
- SMART event
- High efficiency IR LED, radiant distance up to 20m
- Day & Night (IR cut removable)
- Built-in highly sensitive microphone
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S and Profile T
- supported Support Client Side Dewarping
- IP67 rain and dust resistant

## Specifications

|   |   |
|---|---|
| Model                                     | F2R36C2IM   |
| Min. illumination/Low Light Mode (Colour) | Color : 0.3 Lux at F2.2 ; B/W : 0.09 Lux at F2.2  |
| Focal Length                              | 1.2mm   |
| Iris                                      | F2.2  |
| Iris Control                              | Fixed IRIS  |
| Angle of View                             | 185° (H) 185° (V) 185° (D)  |
| Peak wavelength                           | 850nm   |
| Beam Spread                               | 90°   |
| Max IR distance                           | 20M   |
| Pick Up Element                           | 1/1.7" CMOS image sensor  |
| Effective pixels                          | 4072 (H) × 3046 (V) = 12,403,312 (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  | 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, Built-in Microphone  |
| Alarm Input / output                      | Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load.max. 40VDC,450mW/300mA,450mW), Terminal block |
| Video Compression                         | H.265/HEVC main profile, H.264 main and high profile , Motion JPEG  |

|                         |  |
|-------------------------|--|
| Video streaming         | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth   |
| Number of streams       | 4  |
| Video bitrate           | 128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported, Fixed bitrate, Smart H.264/H.265   |
| Encryption              | Base64 HTTP encryption, HTTPS encryption, DDNS via HTTPS   |
| Authentication          | Digest HTTP authentication, RTSP authentication, TLS, 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              | 9M (3008 x 3000), 8M (2848 x 2832), 7M(2656 x 2656), 6M(2464 x 2464), 5M(2240 x 2240), 4M(2016 x 2000), 3M(1760 x 1744), 2M(1440 x 1440), 1M(1024 x 1024), 736 x 720, 480 x 480, 352 x 240 |
| Maximum Frame Rate      | up to 25 fps @ 3008 x 3000   |
| 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       | 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) Support<br>Onvif   |
| Privacy Masking         | Off / On (4 zones)  |
| Image Effects           | Brightness, Contrast, Hue, Saturation, Sharpness  |
| EV (Exposure Value)     | Adjustable  |
| Mobile Application      | Integrated to LILIN mobile app (LILIN Viewer) iPhone, iPad, Android support   |
| Video Management        | ONVIF Profile S / ONVIF Profile T / IVS events, LILIN Navigator Enterprise 2.0 support, Third party VMS through LILIN HTTP API  |
| SD Card (recording)     | Support Micro SD/SDHC/SDXC card for circular recording (card is not included)   |
| SD Card Compatible List | Micron -<br>32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1, C10)<br>Transcend -<br>4GB SD,8GB SDHC,32GB SDHC C10,128GB SDXC C10<br>SanDisk -<br>8GB SDHC, 32GB, 64GB, 128GB SDHC C10<br>Kingston -<br>64GB SDXC C10 |
| Maintenance             | Firmware update via HTTP and IP Scan; Firmware available at website   |
| 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 / SmartEvent   |
| Alarm event actions     | FTP / SMTP / HTTP post / SD card / SAMBA / Alarm / SNMP Trap / Push Service notification  |

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|----------------------------|---|
| Languages                  | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese   |
| 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, 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% / PoE (IEEE 802.3af compliant)   |
| Power Consumption          | DC12V, 9.0W / PoE, 10.6W  |
| Dimensions                 | Ø120 × 58.8 mm  |
| Weight                     | 500g  |
| Casing Material            | Aluminum alloy  |

