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## 8MP Day & Night Fixed IR Vandal Resistant Panoramic IP Camera



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### Features

- 8 megapixel CMOS image sensor
- Certified Immersion Enables (RPL code B5SST)
- 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 supported
- Support Client Side Dewarping
- IP67 rain and dust resistant

## Specifications

Model	F2R3682IM
Min. illumination/Low Light Mode (Colour)	Color : 0.04 Lux at F2.0 ; B/W : 0.009 Lux at F2.0
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, 5.6W / PoE, 6.8W
Lens	1.0mm
Iris	F2.8
Iris Control	Fixed IRIS
Angle of View	185° (H) 185° (V) 185° (D)
Peak wavelength	850nm
Infrared LED Angle	90°
Max IR distance	20M
Pick Up Element	1/1.8" CMOS image sensor
Effective pixels	3864 (H) × 2180 (V) = 8,423,520 (pixels)
CE	Yes, EMI CLASS B
FCC	Yes, EMI CLASS B
IP Rating	IP67
Vandal Resistant Rating / IK Rating	IK10
CPU requirement	Intel® Core™ i7 or higher grade
OS requirement	Windows 7 or above
RAM requirement	8GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9 or above
Dimensions	Ø120 × 58.8 mm
Weight	585g
Casing Material	Aluminum alloy
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
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
Resolution	4.7M(2176 x 2160), 4M(2000 x 2000), 3M(1744 x 1744), 2M(1440 x 1440), 1M(1024 x 1024), 736 x 720, 480 x 480, 256 x 240
Frame Rates	up to 30 fps @ 2176 x 2160
Scanning System	Progressive Scan
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

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 Onvif
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness
EV (Exposure Value)	Adjustable
Mobile phone	Integrated to LILIN mobile app (LILIN Viewer), iPhone, iPad, Android support
Video Management	ONVIF Profile S / IVS events, LILIN Navigator Enterprise 2.0 support, Third party VMS through LILIN HTTP API
SD Card (recording)	Support (128GB) 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 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 / SMTP Trap / Alarm Output
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	Text overlay for date, time, and camera name (position configurable text overlay for date, time, camera name, and user demand position configurable)
CPU.Memory	Embedded SoC ARM Cortex-A9, 816MHz, 512MB DDR3L, 256MB flash memory
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)