

F2R36C2IM

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

Panoramic
SERIES

The panoramic camera offers a 360-degree view, featuring an image sensor with a minimum of 8 megapixels. This high-resolution capability reduces the number of cameras needed in environments requiring ultra-wide perspectives, leading to simpler wiring and deployment.

12MP

ONVIF® S T

- 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



Video Performance	
Min. Illumination	Color : 0.3 Lux at F2.2 ; B/W : 0.09 Lux at F2.2
Lens / Night Vision (Infrared LED)	
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°
Radiant Distance	20M
Sensor	
Pick Up Element	1/1.7" CMOS image sensor
Effective Pixels	4072 (H) × 3046 (V) = 12,403,312 (Pixels)
Certifications	
CE / FCC	Yes, EMI Class B
IP Rating	IP67
Vandal Resistant Rating	IK10
PC Requirements	
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 Microsoft® Edge (IE mode)
Input / Output	
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 Streaming	
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
Network Security	
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
Video Resolutions (H x V)	
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 × 3000
Video Functions	
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 Onvif
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness
EV (Exposure Value)	Adjustable
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro), iPhone, iPad, Android support
Video Management	ONVIF Profile S / ONVIF Profile T / IVS events, LILIN Navigator Enterprise 5.0 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 - 32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1, C10) Transcend - 4GB SD,8GB SDHC,32GB SDHC C10,128GB SDXC C10 SanDisk - 8GB SDHC, 32GB, 64GB, 128GB SDHC C10 Kingston - 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
Event Triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
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	
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
OS	Embedded Linux 3.10
Network 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)
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 802.3af compliant)
Power Consumption	DC12V, 9.0W / PoE, 10.6W
Mechanical	
Dimension	Ø120 × 58.8 mm
Weight	500g
Casing Material	Aluminum alloy
Warranty	
Warranty	3 Year(s)

Bracket



BCR03W
Wall-mount

Bracket



BCR04W
Wall-mount

Bracket



BCR06W
Wall-mount

Bracket



BTD01W
Wall-mount

Bracket



BTD04W
Wall-mount

Bracket



BTR07W
Wall-mount