

Z5R6422X3

1080P Day & Night Auto Focus IR Vandal Resistant Dome IP Camera



The LILIN Z5 series cameras are equipped with a high-resolution 2-megapixel CMOS sensor, delivering clear image quality. This series combines advanced 3D digital noise reduction (MCTF) and 2D WDR technology to ensure visibility in various lighting conditions. With high-efficiency infrared LEDs, the Z5 series provides superior illumination in low-light environments and supports day and night functionality to adapt to changing light conditions. The zoom lens in the Z5 series allows for flexible image capture, enabling precise adjustments of the surveillance range and focus to meet different monitoring needs.

The Z5 series also features digital PTZ (Pan, Tilt, Zoom) and ROI (Region of Interest) capabilities. It supports intelligent video surveillance (IVS) functions such as tamper detection, motion detection, and network disconnection detection, with customizable smart events to meet various application requirements. Compatible with ONVIF Profile S, standards, the Z5 series is designed with waterproof and vandal-resistant construction.

1080P



- 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
- DWDR function up to 70dB
- High efficiency IR LED, radiant distance up to 30m
- Day & Night (IR cut removable)
- Digital I/O : 1 in, 1 out
- Impact Resistant Polycarbonate Dome Cover
- 3-Axis construction
- ONVIF Profile S supported
- IP67 rain and dust resistant
- Vandal resistant approve



Video Performance	
Min. Illumination	Color : 0.01 Lux at F1.8 ; B/W : 0.001 Lux at F1.8 ; 0 Lux with IR LED ON
Lens / Night Vision (Infrared LED)	
Focal Length	2.8 – 12 mm (zoom / focus motorized)
Iris	F1.8 (W) – F3.3 (T)
Iris Control	Fixed IRIS
Angle of View	105.9° (W) – 36.5° (T) (H) , 56.3° (W) – 20.4° (T) (V) , 128.0° (W) – 41.6° (T) (D)
Peak Wavelength	850nm
Beam Spread	60° , 90°
Radiant Distance	30M
Sensor	
Pick Up Element	1/2.7" CMOS image sensor
Effective Pixels	1932(H) X 1092(V) = 2,109,744 (Pixels)
Light Sensor	Yes
Certifications	
CE / FCC	Yes, EMI Class A
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	
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 Profile , Motion JPEG
Video Streaming	RTSP/UDP, RTSP/TCP , configurable streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth
Number of Streams	3
Video Bitrate	128Kbps - 8192Kbps, Frame rate and bit rate controllable on-the-fly, VBR / CBR / GOP supported, H.264/H.265
Network Security	
Encryption	Base64 HTTP encryption, DDNS via HTTPS
Authentication	Digest HTTP authentication, RTSP authentication,TLS, DDNS via HTTPS
Access	Multiple user access levels with password protection
User accounts	7 user accounts available
Video Resolutions (H x V)	
Resolution	2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), 720 × 576, 720 × 480, 720 × 384, VGA(640 × 480), CIF(352 × 256)
Maximum Frame Rate	60Hz: 30 fps @ 1920 × 1080 50Hz: 25 fps @ 1920 × 1080
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Schedule / Day (Color) / Night (Mono)
White Balance	Auto/ Manual (adjustable)
Electrical Shutter	1/30(1/25)s – 1/20000s
Sense Up	Off / x2 / x4
Sense Up+	Yes
Auto Gain Control	42 dB Variable Gain
S/N Ratio	More than 48dB (AGC off)
3D Noise Reduction	Off / 1 – 32 Selectable
2D WDR	Off / Auto (x2, x3, x4)
High Dynamic Range	Up to 70dB (DWDR on)

Privacy Masking	Off / On (4 zones) color mask configurable
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Auto Focus	One Push
EV (Exposure Value)	Adjustable
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro), iPhone, iPad, Android support
Video Management	ONVIF Profile S / 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
Event Triggers	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
Event actions	FTP / SMTP / HTTP POST / SD Card / SAMBA / Alarm / Global Counter / Virtual Input / 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
OSD	Text overlay for date, time, and camera name (position configurable text overlay for date, time, camera name)
CPU, Memory	SoC ARM Cortex-A7 Single Core 800MHz, Embedded 128MB DDR3, 128MB flash memory
OS	Embedded Linux 3.10
Network Protocols	IPv4, TCP, UDP, HTTP, HTTPS, SMTP, NTP, DDNS, FTP, ARP, DHCP, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SSL/TLS
Max number of online users	7 simultaneous users
Video Display	LILIN Universal ActiveX
Log	System / Config / Alarm / User / Record / Storage / Network
Network Storage	NAS (Support SAMBA/CIFS)
Power and Environment	
Starting Temperature	-10° C – +50° C (14° F – 122° F)
Operating Temperature	-30° C – +50° C (-22° 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, 7.4W / PoE, 9.6W
Mechanical	
Dimension	Ø120 × 106 mm
Weight	760g
Casing Material	Aluminum alloy
Warranty	
Warranty	2 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