Z6R6582X3

4K Day & Night Auto Focus IR Vandal Resistant Dome IP Camera

Z6 SERIES

The LILIN Z6 series cameras are equipped with a high-resolution 8-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 Z6 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 Z6 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, T, and G standards, the Z6 series is designed with waterproof and vandal-resistant construction.

4K **ONVIF® STG**

- Ultra HD 8M megapixel CMOS image sensor
- 8MP 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
- HDR function up to 140dB
- IVS / AI supported
- Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
- SMART event
- High efficiency IR LED, radiant distance up to 35m
- Day & Night (IR cut removable)
- Built-in highly sensitive microphone
- 1-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S , T , G supported
- IP67 rain and dust resistant
- Vandal resistant approve IK10

Specs

Video Performance

Min. Illumination	Color : 0.08 Lux at F1.6 ; B/W : 0.01 Lux at F1.6 ; 0 Lux with IR LED ON

Lens / Night Vision (Infrared LED)

Focal Length	2.8 – 12 mm (zoom / focus motorized)
Iris	F1.6 (W) – F3.3 (T)
Iris Control	Fixed IRIS
Angle of View	105.1° (W) – 31.5° (T) (H) , 55.7° (W) – 17.7° (T) (V) , 125.5° (W) – 35.8° (T) (D)
Peak Wavelength	850nm
Beam Spread	60° , 90°
Radiant Distance	35M

Sensor

Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	3864 (H) × 2176 (V) = 8,408,064 (Pixels)
Light Sensor	Yes

Certifications

CE / FCC / UKCK	Yes, EMI Class A
IP Rating	IP67
Vandal Resistant Rating	IK10 (Casing)

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	One-way Audio, G.711 u-law / AAC, 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 streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth
Number of Streams	3
Video Bitrate	128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported, Fixed bitrate

Network Security

Encryption	Base64 HTTP encryption, HTTPS encryption
Authentication	Digest HTTP authentication, RTSP authentication, DDNS via HTTPS
Address Filter	Yes
Access	Multiple user access levels with password protection
User accounts	10 user accounts available
Multi IP Address	Yes

Video Resolutions (H x V)

Resolution	4K(3840 × 2160), 6M(3072 × 2048), 5MP(2592 × 1944), 4MP(2304 × 1728), 3.1MP(2048 × 1536), 3MP(2304 × 1296), 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240)
Maximum Frame Rate	Normal mode: 60Hz: 30 FPS @ 3840 × 2160 50Hz: 25 FPS @ 3840 × 2160 HDR mode: 60Hz: 20 FPS @ 3840 × 2160 50Hz: 20 FPS @ 3840 × 2160

Video Functions

Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	Auto / Manual
Electrical Shutter	1/30(1/25)s – 1/20000s
Sense Up	Off / x2 / x4 / x8 / x16
Sense Up+	Yes
Auto Gain Control	48 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
High Dynamic Range	Up to 140dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Rotation, Defog
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 / ONVIF Profile G / IVS events, LILIN Navigator Enterprise 5.0 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)
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 / Tamper
Event Triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
Event actions	FTP / SMTP / HTTP post / SD card / SAMBA / Alarm Output / Push Service / Global Counter / Virtual Input
Languages	English, Traditional Chinese, Simplified Chinese, Russian, Italian, Hungarian, Korean, French, Turkish, Arabic, Spanish, Japanese

Network

Ethernet	10BASE-T/100BASE-TX, RJ-45
OSD	Position configurable text overlay for date, time, camera ID, event status
CPU, Memory	Embedded Dual-core ARM Cortex-A9 1.2GHz CPU & (DDR 1024MB/Flash 512MB)
OS	Embedded Linux 4.14
Network Protocols	IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, SMTP, Multicast, ONVIF Profile S, ONVIF Profile T,ONVIF Profile G
Max number of online users	10 simultaneous users
Video Display	LILIN Universal ActiveX & HTML5
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	-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, 8.3W / PoE, 9.2W

Mechanical

Dimension	Ø115 x 91mm
Weight	465g
Casing Material	Aluminum alloy

Warranty

Warranty	3 Year(s)

Bracket

BCR03W

Wall-mount

Bracket

BCR04W

Wall-mount

Bracket

BCR06W

Wall-mount

Bracket

BTD04W

Wall-mount

Bracket

BTR07W

Wall-mount