Z7R8082X10-P

4K Day & Night Auto Focus IR Bullet IP Camera

7 SERIES

The Series 7 camera is a versatile AI camera, representing the pinnacle of performance in LILIN's AI product line and supporting the most extensive range of AI modules. It can perform image recognition and event processing directly at the edge, eliminating the need for additional AI processing units or PC intermediaries, thus achieving a streamlined and efficient edge computing architecture. This camera boasts a comprehensive array of software and hardware I/O interfaces, enabling seamless integration with peripheral devices or backend systems, such as digital I/O ports and C# and Python libraries, making it ideal for highly integrated application scenarios.

The Series 7 camera can be equipped with a variety of trained models, offering a broad spectrum of applications, including the recognition of people, vehicles, objects, ships, animals, smoke, and flames. These capabilities provide the Series 7 camera with significant advantages in intelligent surveillance, automated management, and security protection fields.

4K ONVIF® S T G

- 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 (Continue / Interval / Zoom Trigger / One Push), Manual Focus
- P-IRIS supported
- 3D noise reduction (MCTF)
- HDR function up to 140dB
- Digital PTZ supported
- IVS / AI supported (need purchase license)
- Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
- SMART event
- High efficiency IR LED, radiant distance up to 100m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- Cable managed housing and bracket
- ONVIF Profile S, T, G supported
- IP67 rain and dust resistant
- Vandal resistant approve IK10

Video Performance

Min. Illumination	Color : 0.05 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	5 – 50mm (zoom / focus motorized)
Iris	F 1.6
Iris Control	P-IRIS
Angle of View	41.8° (W) – 6.4° (T) (H) , 31.0° (W) – 4.8° (T) (V) , 53.2° (W) – 8.0° (T) (D)
Peak Wavelength	850nm
Beam Spread	20° , 45°
Radiant Distance	100M

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 / UKCA	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 Input / Output	Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block
Audio	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
Alarm Input / Output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load.max. 40VDC,450mW/300mA,450mW), Terminal block
Live Video Output	CVBS 1.0Vp-p, 75 ohm, Connector

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	4
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	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	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: 30 FPS @ 3840 × 2160 50Hz: 25 FPS @ 3840 × 2160

Video Functions

Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	Auto / Manual one push
Electrical Shutter	1/30(1/25)s – 1/20000s
Sense Up	Off / x2 / x4 / x8

Sense Up+	Yes
Auto Gain Control	60 dB Variable Gain
S/N Ratio	More than 50dB (AGC off)
3D Noise Reduction	Off / 1 – 32 Selectable
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, Overexposure Reduction
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 / 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	10/100/1000 Mbps Base-T, RJ-45
ePTZ & Digital Zoom	Yes
OSD	Position configurable text overlay for date, time, camera ID, event status
CPU, Memory	Embedded Quad-core ARM Cortex-A53 1.0GHz CPU & 2GB LPDDR4X, 8GB e.MMC memory
OS	Embedded Linux 4.14
Network Protocols	IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, 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	-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% (Terminal connector) / PoE+ (IEEE 802.3at compliant)
Power Consumption	DC12V, 18.2W / PoE+, 19.3W

Mechanical

Dimension	116(W) × 112(H) × 372(D) mm
Weight	1700g
Casing Material	Aluminum alloy
Window	Ø82 heat resistant glass

Warranty

Warranty	3 Year(s)