

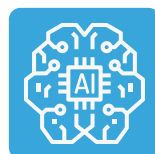


AI Edge Human and Vehicle Recognition Camera

Z7R8082EX25

4K Day & Night 25X Auto Focus IR Vandal Resistant Bullet IP Camera

- ▶ AmbarellaSoc, supporting AI hardware
- ▶ LILIN's exclusive Aida Edge AI Deep Learning Recognition Service
- ▶ LILIN's exclusive Smart Event
- ▶ Human Vehicle Identification
- ▶ Support directionality warning lines, different warning zones, and times count with alarm triggering function
- ▶ Support AI Plug-in extensions and provides complete SDK for third-party integration purposes
- ▶ LILIN's exclusive Smart Codes with low-frequency broad compressor
- ▶ Support Onvif Profile S and Profile T
- ▶ Ultra HD 8M megapixel CMOS image sensor with HDR function up to 120dB
- ▶ High-efficiency infrared LED, projection distance up to 100 M
- ▶ Vandal-proof IK10-rated and Water-proof IP67 rated



AI Engine



Aida AI Recognition
System



Smart Event



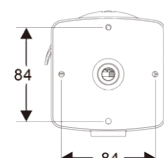
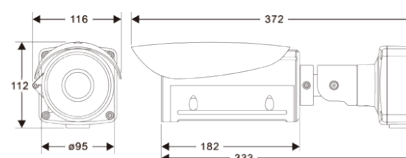
API Intergration



Smart Codec H.265

Size:
116(W) × 112(H) × 372(D) mm

Connector :
(unit : mm)



AI Camera

01
AI

Area Violation Recognition

This system is designed for outdoor security defense. It can accurately detect an object when invades the security zone and triggered a security alarm, with left-right direction detection. It can recognize 6 FPS and detect 24 objects at the same time, with each object captured larger than 120x120 px.



02
AI

AIMask

This system is to detect a person's mask is worn correctly. Recommended to be used in hospitals, schools, offices, and common public areas.



03
AI

AICAP

LILIN people and car counting for premises' capacity solution effectively analyze the capacity of humans and cars in a premises area and provide traffic flow statistics for the control of traffic signals. Count results will send to the storage daily and reset at a specific time.



04
AI

AISAFTY

Using LILIN Aida detection to review whether workers are wearing the helmet or not in the construction area. If the regulations are not followed, an alarm will be issued immediately.



05
AI

AIFIRE

LILIN Aida detects whether there is smoke or fire in a specific area. This is to reduce the risk of the beginning of accidents. It manages to detect small smoke and triggered the alarm immediately.



06
AI

AIANPR

It manages to recognize car plates under 80km/h and supports up to 2000 whitelisted, 100 black listed, and 600 visitor's car plates. It can record up to 600 incidents and integrate with a third-party summon system.



07
AI

AlCarMake

To develop object classification and identification technology to detect traffic violations. For instance, red-light running, parking, U-turn, and so on.



4K Day & Night 25X Auto Focus IR Vandal Resistant Bullet IP Camera	
Video Performance	
Model	Z7R8082EX25
Min. Illumination	0.04 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.009 lux(1 / 30 sec, F1 .3(Wide), 30 IRE, AGC - Gain: 60 dB ICR - ON B / W mode)
Lens / Night Vision (Infrared LED)	
Focal Length	5.3 (WIDE) – 132.5 (TELE) mm
Iris	F1.6(Wide) – F4.3(Tele)
Iris Control	DC-IRIS
Angle of View	60.4°(W) – 2.9°(T) (H) 34.7°(W) – 1.5°(T) (V) 69.1°(W) – 3.3°(T) (D)
Peak Wavelength	850nm
Beam Spread	Automatically adjusted, Depending on the zoom ratio
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	Yes, EMI Class A
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
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 120dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	Off / On (16 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Rotation, Overexposure Reduction, Digital Zoom(x8)
Auto Focus	Auto focus (Continue / Interval / Zoom Trigger / One Push), Manual Focus
Smart IR	Yes
EV (Exposure Value)	Adjustable
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Viewer) iPhone, iPad, Android support
Video Management	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G / 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)
SD Card Compatible List	Yes
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
Control Interface	RS-485, Half duplex, Support MLP2, PELCO D/P communication protocol
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 and watermark with customizable user demand data
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, IPv6, TCP, UDP, HTTP, HTTPS, QoS, beat, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, 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, 15.9W / PoE+, 18.3W
Mechanical	
Dimension	116(W) × 112(H) × 372(D) mm
Weight	1800g
Casing Material	Aluminum alloy
Window	Ø82 heat resistant glass