



Starvis 4K P-Iris Auto Focus IR AI Smart IP Camera



Features

- 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
- P-IRIS supported
- 3D noise reduction (MCTF)
- HDR function up to 140dB
- Digital PTZ supported
- 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 55m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- Cable managed housing and bracket
- ONVIF Profile S, Profile T and Profile G supported
- IP68 rain and dust resistant
- Vandal resistant approve IK10

Description

AI Features

- **Aida-EDGEFLOW**

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.

- **Aida-EDGECAP**

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.

- **Aida-EDGELPR**

It manages to recognize car plates under 100km/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.

- **Aida-EDGESAFETY**

Used to detect whether staff is indeed wearing helmet and safety vest in the work area, to ensure work place safety. If not wearing helmet or safety vest is detected alarms can be sent to back-end host for taking measures and storage.

- **Aida-EDGECARMAKE**

It can detect vehicles passing through the detection area, vehicles illegally parked in the detection area. At the same time, it also can identify the vehicle license plate, vehicle brand and type, provide screenshots of illegal actions and video evidence for effectively carry out smart technology law enforcement.

- **Aida-EDGEFIRE**

Used to detect heavy smoke and fire, and then immediately trigger an alarm notifying the back-end host to take firefight measures. So, it works as an assistant of the existing firefighting equipment in the detection area.

Specifications

Model	Z7R8182X2-P
Min. illumination/Low Light Mode (Colour)	Color : 0.04 Lux at F1.6 ; B/W : 0.008 Lux at F1.6 ; 0 Lux with IR LED ON
Focal Length	6~22mm (zoom / focus motorized)
Iris	F 1.6(W) - F 3.3(T)
Iris Control	P-iris
Angle of View	42.8° (W) - 18.3° (T) (H) 23.6° (W) - 10.4° (T) (V) 49.7° (W) - 21.1° (T) (D)
Peak wavelength	850nm
Beam Spread	30°
Max IR distance	55M
Pick Up Element	1/2.8" CMOS image sensor
Effective pixels	3864 (H) × 2176 (V) = 8,408,064 (Pixels)
Light sensor	Yes
CE	Yes, EMI Class A
FCC	Yes, EMI Class A
IP Rating	IP68
Vandal Resistant Rating / IK Rating	IK10
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)
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, BNC Connector

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
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
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
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 – 1/30000s

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(HDR)	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
Mobile Application	Integrated to LILIN mobile app (LILIN Home) iPhone, iPad, Android support
Video Management	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G / IVS events, LILIN Navigator Enterprise 3.0 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 / Tamper
Alarm event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata

Alarm 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 Interface/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
Network OS	Embedded Linux 4.14
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)
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)
Operating humidity	0% - 90% RH
Power Supply	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at compliant)
Power Consumption	DC12V, 13.1W / PoE+, 14.9W
Dimensions	102.5(W) × 102.5(H) × 258(D) mm
Weight	1020g
Casing Material	Aluminum alloy
Window / Glass Thickness	Ø75 Heat Resistant Glass

