

Z series | IP bullet **ZR8022** Auto Focus Outdoor Bullet IR IP Camera

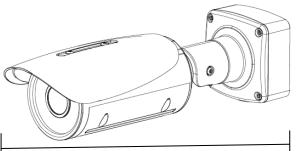
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- Outdoor Bullet IP Camera
- Powerful Auto Focus feature
- IP66 rain and dust resistant
- 60-metre infrared night vision
- 1080p resolution

Dimensions: 116mm (W) x 112mm (H) x 372mm (D)





ZR8022 is 2-megapixel IP camera integrates 10x or 20x optical Auto Focus lens to focus or zoom adjustments by clicking on browsers, waterproof IP66 rated, progressive scan CMOS sensor, Wide Dynamic Range, and easy installation with 802.3at PoE+ or DC12V adapter. 372mm

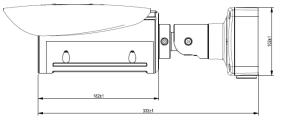
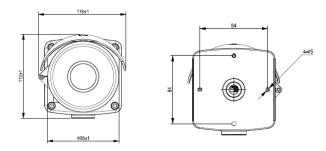


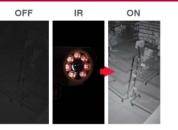
Diagram of mounting holes: (unit in mm)



Product Features

Built-in IR Illumination

ZR8022 IP camera with infrared (IR) illumination where IR LEDs are built-in. Built-in with IR LED, the camera provides night vision up to 60 metres



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. ZR8022 camera is ONVIF Profile S conformant



SD Cards in Sync with NAV Software

ZR8022 camera with built-in Micro SD/SDHC card slots can provide redundant video viewing and recording. You can synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



Wind and Rain Standards

Meet international IP66 standards for dust and moisture resistant allowing you to install cameras in environments subject to wind and rain



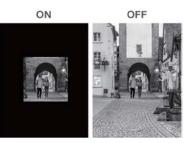
3D Noise Reduction

Remove noise from a signal. Suppressing noise in an image in low light conditions and able to retain quality videos at the same time



Region of Interest (ROI)

A Region of Interest (ROI) is a specified part of an image that is highlighted from a camera. This feature is great for highlighting areas such as doors or areas of access where an overall scene is still required



Video Security App

Available on Android and iOS - LILINViewer app provides security alarm push notification, real-time live viewing, and remote video playback



Auto Focus feature

Use the camera software to trigger the auto focus function at any time during installation or after. Auto Focus feature to automatically focus the camera from a distant location, which eases the process on installation and helps you effectively



position the camera at the right focus angle in a matter of seconds

Sense Up+

Deliver outstanding video outputs in poor light conditions without experiencing motion blur. You can see video clearly even during nighttime without sufficient lighting support



Wide Dynamic Range (WDR)

Wide Dynamic Range (WDR) displays details of both the brightest and darkest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality



Face Detection

Automatically detects a human face



Privacy Masking

Privacy Masking is a feature used to protect personal privacy by concealing private areas in the camera's field of view. Doorways and house windows for example are not subject to surveillance



ON

Audio Detection

OFF

Alarm Detection is designed to provide the electronic detection of intruders



With Audio Detection technology, an alarm is triggered based on ambient sound conditions as the threshold



Motion Detection

Detect motion and capture the event. Motion in the selected area will provoke an alert.



Tamper Detection

Automatically detects camera sabotage or failure. Detects any attempts to tamper with the camera - partially or completely blocking its lens or field of view



Technical Specifications

Auto Focus Outdoor Bullet IR IP Camera

Video performance		
Model#	ZR8022EX10	ZR8022EX20
Low Light Mode (Colour)	0.02 lux at F1.6	
With Infrared	0.0 lux	
2D WDR	Off / Auto / x2 / x3 / x4	

Pc	ower	
Po	ower consumption	18W (PoE+, 21W)\
Pc)E+	IEEE802.3at
Pc	ower supply	DC12V (±10%)
		Power over Ethernet+ (IEEE 802.3at compliant)

Sensor	
Sensor type	1/2.8" CMOS image sensor
Total sensor pixels	1,984 (H) x 1,105 (V) = 2,192,320 pixels

Certifications	
IP Rating	IP66 waterproof
CE	Yes
FCC	Yes

Lens			
Model#		ZR8022EX10	ZR8022EX20
Focal length		5.0mm \sim 50mm	4.7mm \sim 94mm
Zoom ratio		10X Optical zoom	20X Optical zoom
Minimum object distance		0.2m (Wide), 1.0m (Tele)	
Maximum aperture		F1.6 ~ F1.8	F1.6 \sim F3.0
Angle of	Н	54° ~ 4.9°	55.5° ~ 3°
View	V	31° ~ 4°	43° ∼ 2.2°
	D	68° ~ 6.7°	72° ~ 3.8°

Night vision (infrared LED)	
Radiant distance	60m
Peak wavelength	850nm, high efficiency array
Beam spread	Automatically adjusted, Depending on the zoom
	ratio

Environmental	
Operating temperature	-40°C to 50°C (-40°F to 122°F)
PC requirement	
CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000, Windows XP, Windows Vista,
	Windows 7, Windows 8 / 8.1
RAM	1GB or above, Independent Display Card
Mechanical	
Dimensions (W x H x D)	116mm x 112mm x 372mm
Weight	1800g approx.
Window	Φ82 heat resistant glass
Input / output	
Audio input / output	Mono, 1.4 Vp-p , 50 K Ω , terminal connector
Live video output	CVBS1.0Vp-p, 75ohm, RCA connector
Alarm input / output	Digital 1 input (TTL, +3 \sim 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA)
Network security	
User accounts	10 users accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption

Video strean	ning	
Video compi	ression	H.264, Motion JPEG
Streaming		RTP/HTTP, RTP/TCP, RTP/UDP, Multicast Multiple configurable streams in H.264 and M-JPEG, configurable frame rate and bandwidth
Bitrate		128Kbps to 8Mbps Frame rate and bitrate controllable on-the-fly
IP filter		VBR / CBR / GOP supported Yes
RTSP Authe	ntication	On / Off
Video resolu	ition (H x V)	
1080p HD		1920 x 1080
720p HD		1280 x 720
D1		720 x 480
CIF		352 x 240 H.264: up to 30 FPS @ 1920 x 1080, MJPEG: up
Multiple	Profile #1	to 30 FPS @ 720 x 480
profile	Profile #2	H.264: up to 30 FPS @ 1280 x 720, MJPEG: up to
	Profile #3	30 FPS @ 352 x 240 H.264: up to 30 FPS @ 1920 x 1080, MJPEG: up
	Prome #3	to 30 FPS @ 1280 x 720
	Profile #4	H.264: up to 30 FPS @ 720 x 480, MJPEG: up to 15 FPS @ 1920 x 1080
Video functio	ons	
Day/Night (II	R-cut filter)	Colour (Day), Monochrome (Night), Auto,
		Schedule
Scanning sy	stem	Progressive scan
Auto Focus		Yes
	icture setting	Contrast, Brightness, Saturation
White baland	ce	Auto / Tungsten / Indoor / Fluorescents1 /
0 1		Fluorescents2 / Outdoor1 / Outdoor2
Shutter		1/30(1/25)s ~ 1/8,000s
Back light co		On / Off
3D noise rec		Off / 1 to 32 selectable
Privacy mas	KING	Off / On (four independent areas) Off / 1 frame / 2 frames / 3 frames / 7 frames
Sense Up		Yes
Sense Up+ Auto gain co	ontrol	36 dB variable gain
Other functio		Sharpness, Image flip, Image mirror, Hue
D/N quality s		Yes
Integration		
Mobile appli	cation	Integrated to LILIN mobile app (LILINViewer)
		iPhone, iPad, Android support
Video manag	gement	ONVIF Profile S LILIN NAV 1.0 / CMX HD 3.6
		Third party VMS through LILIN HTTP API
SD card reco	ording	Support Micro SD/SDHC card for circular
		recording (card is not included)
Web browse	r	Microsoft® Internet Explorer® 6.0 and later
Firmware		Firmware upgrade via HTTP
Intelligent Vi Surveillance		Advanced Motion Detection, Tripwire Detection, Object Counting
Alarm functio		Face/ tampering/ audio /motion/ alarm detection
Alarm event		FTP,SMTP, HTTP post, SD card, SAMBA
Alarm weigh	ted mode	Yes
Network Ethernet		10Mbps / 100Mbps Base-T, RJ-45
Ethernet		ONVIF Profile S
Connectivity Users		8 simultaneous users
ePTZ & digital zoom		Yes, ROI (Region of Interest) is supported
OSD		Text overlay for date, time and camera name
CPU, Memory		Embedded SoC ARM11, 528MHz, 256MB DDR2,
		256MB flash memory
Video display		LILIN Universal ActiveX & LILIN Java Applet
OS		Embedded Linux 2.6.32
2-way audio		G.711 / PCM IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS,
Protocols		UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ICMP, IGMP, SNMP, SIP, ONVIF profile S, Bonjour
Multi IP addr	ress	Yes

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