

# Z3R8922LPR3-H

## LPR 1080P Day & Night Auto Focus IR Bullet IP Camera

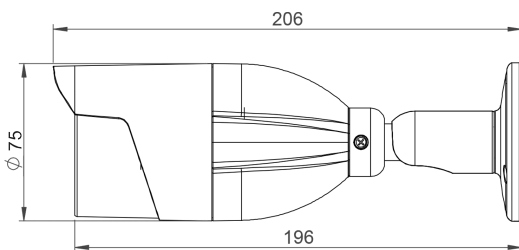
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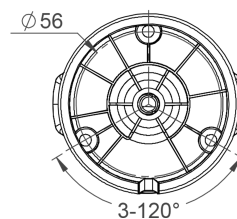
- ▶ Full HD 2 megapixel CMOS image sensor
- ▶ 2MP H.265/HEVC and H.264/AVC high-performance video compression
- ▶ License plate recognition on the edge
- ▶ Log list: 1000, denial list: 100, allowed list: 2000, visitor list: 2000 and LPR Snapshot: 100
- ▶ Detection speed: Under 50KM/h.
- ▶ Supported countries: EU, UK, Russia ,Belgium, Bosnia, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Luxembourg, Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Spain, Slovakia, United Kingdom, Vatican City, Slovenia, Sweden, Switzerland, Turkey, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Turkmenistan, Ukraine, Uzbekistan
- ▶ Plate number length supported: from 5 to 9 characters (A~Z and 0~9).
- ▶ Support limited hour access for recognition
- ▶ Build-in database for denial and allowed lists, no need computer can operate alone

### Dimensions

Ø75 × 206(D) mm



### Diagram of mounting holes:(unit in mm)



## LPR 1080P Day & Night Auto Focus IR Bullet IP Camera

### Video Performance

Model	Z3R8922LPR3-H
Min. Illumination	Color : 0.02 Lux at F1.8 ; B/W : 0.002 Lux at F1.8 ; 0 Lux with IR LED ON

### 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% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 5.7W / PoE, 6.8W

### Lens / Night vision (infrared LED)

Focal Length	2.8 – 12 mm (zoom / focus motorized)
Iris	F 1.8(W) - F 3.3(T)
Iris Control	Fixed IRIS
Angle of View	104.2° (W) – 39.0° (T) (H) 54.9° (W) – 21.8° (T) (V) 125.9° (W) – 44.6° (T) (D)
Peak Wavelength	850nm
Beam Spread	60°, 90°
Radiant Distance	35M

### 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

### Mechanical

Dimension	Ø75 × 206(D) mm
Weight	575g
Casing Material	Aluminum alloy
Window	Ø61 Heat Resistant Glass

### Input / Output

Alarm Input / Output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load.max. 40VDC,450mW/300mA,450mW), Terminal block
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### 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 4 configurable 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, Smart H.264/H.265

### Network Security

Encryption	Base64 HTTP encryption, HTTPS encryption
Authentication	Digest HTTP authentication, RTSP authentication, 802.1x, DDNS via HTTPS
Address Filter	IP address filter, MAC address filter
Access	Multiple user access levels with password protection
User Accounts	10 simultaneous users
Multi IP Address	Yes

### Sensor

Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	1945 (H) × 1097 (V) = 2,133,665 (Pixels)
Light sensor	Yes

### Video Resolutions (H x V)

Resolution	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 @ 1920 × 1080 50Hz: 25 fps @ 1920 × 1080 HDR mode 60Hz: 30 fps @ 1920 × 1080 50Hz: 25 fps @ 1920 × 1080

### Video Functions

Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	ATW-NARROW / ATW-WIDE / AWC(MANUAL)
Back Light Compensation	Yes
Electrical Shutter	1/30(1/25)s – 1/30000s
Sense Up	Off / x2 / x4 / x8 / x16 / x32
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
2D WDR	Off / Auto / x2 / x3 / x4 (by normal mode) Support Onvif
High Dynamic Range	Up to 120dB (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
Lens Distorsion Correction (LDC)	Yes

### Certifications

CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A
IP Rating	IP67
Vandal Resistant Rating	IK10

### Integration

Mobile Application	Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support
Video Management	ONVIF Profile S / 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)
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at website
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
Event Triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Smart Event/ IVS / LPR
Event Actions	FTP / SMTP / HTTP post / SD card / SAMBA / Alarm / SNMP Trap / Push service notification
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese

ANPR functions	
Countries (Numeric Plate)	EU, UK, Russia ,Belgium, Bosnia, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Luxembourg, Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Spain, Slovakia, United Kingdom, Vatican City, Slovenia, Sweden, Switzerland, Turkey, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Turkmenistan, Ukraine, Uzbekistan Plate number length supported: from 5 to 9 characters (A~Z and 0~9).
Detection Speed	Under 50KM/h
Number Plate Lists	Log list: 1000 , all recognized car plate will be memorized, when log is full, data will be overwritten; allowed list can manually enter: 2000; denial list can manually enter: 100; visitor list: 2000; LPR Snapshot: 100 / Each list can have individual schedule and trigger specific events. / Holiday list is supported in schedule./ Effective-hours(start time and end time) are adjustable./ Support fuzzy recognition/ Detect level is adjustable (Very weak to strong)
Angle of License Plate	Up to 5 degrees
Camera Installation Angle	0 to 30 horizontal degrees
SDK	License plate SDK available
Database	Support Denial List, Allowed List, CSV file import and export for CSV file.
Management	Build-in database for denial and allowed lists, no need computer can operate alone
Recognition	LPR Mapping Table: 1,000 groups of incorrectly recognized license plates can be edited to correct license plates Convert text O to 0 supported Convert text 0 to O supported Percentage of number plate width over screen width adjustable (6 to 30%)

Network	
Ethernet	10/100 Mbps Base-T, RJ-45
ePTZ & Digital Zoom	Yes, ROI (Region of Interest)
OSD	Position configurable text overlay for date, time, camera ID, event status and watermark with customizable user demand data
CPU, Memory	Embedded SoC ARM Cortex-A9, 816MHz, 512MB DDR3L, 256MB flash memory
OS	Embedded Linux 3.10
Network Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, SNMP V1/V2/V3, SNMP Trap and heart beat, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S , SDDP, Bonjour , 802.1x, SSL/TLS
Max number of online users	10 simultaneous users
Video Display	LILIN Universal ActiveX , LILIN Java Applet
Watermark	BMP logo
Log	Event & operation log & IVS event log
Schedule	Support holiday list
Network Storage	NAS (Support SAMBA/CIFS)

Warranty	
Warranty	3 Year(s)