

Reolink Professional Series

RP-PCB8MX

4K Smart PoE Camera with ColorX Night Vision



4K

4K Resolution
@30fps



ColorX
Night Vision



111.6° Ultra-Wide
Diagonal Field of View



AI Video
Search



Person & Object
Detection



Smart Event
Detection



Perimeter
Protection



IP67
Weatherproof



Color
Night Vision



Active
Deterrence



Two-Way
Audio



Metal
Housing



Works with
Google Assistant



Alarm Input/Output
Interface



Multiple Recording
Options



H.265
H.265/H.264 Dual
Codec Support

Reolink Feature Descriptions

ColorX

Equipped with an F1.0 super aperture, an advanced 1/1.8" sensor, and HDR technology, ColorX camera delivers exceptional low-light performance. It captures vivid, true-to-life colors and finer details even in extremely dim environments—making nighttime surveillance as clear as daytime. This technology surpasses the human eye in detecting detail under low-light conditions.

Color Night Vision with Spotlights

Built-in spotlights deliver bright, full-color video in low-light and complete darkness, see true colors at night for better identification.

AI Video Search

Find the footage you need faster with AI-powered video search. Simply enter a natural language description—such as “a woman wearing a yellow t-shirt” or “vehicles”—to quickly locate relevant recordings. In addition to text-based search, when used with Reolink’s Professional Series NVR, the system offers advanced search tools, quick-access shortcuts, and the ability to revisit previous search history, making video retrieval smarter and more efficient.

Smart Detection

The Smart Detection system accurately identifies a wide range of targets, including people, vehicles and animals. It can also recognize abnormal events such as Object Removal and Forgotten Object, enhancing situational awareness and security response.

AI-ISP

AI-ISP is an AI-powered image enhancement technology designed to improve video clarity and brightness, particularly in low-light environments. It intelligently adjusts image parameters to deliver sharper, more detailed footage in challenging lighting conditions.

Perimeter Protection

Reolink’s Perimeter Protection provides a powerful layer of security by monitoring defined areas with precision. It features Line Crossing Alerts to detect movement across virtual boundaries, Zone Intrusion Alerts for unauthorized entry into preset zones, and Zone Loitering Alerts to flag prolonged presence in sensitive areas. These smart functions enable proactive threat detection and faster response.

512GB microSD Card Storage

Supports up to 512GB microSD card, allowing for extended local storage of high-resolution footage without relying on external devices. This ample capacity allows for longer recording durations and easy playback access, providing reliable video retention for enhanced security.

Rugged & Weatherproof Design

Built for the outdoors, the camera features an IP67-rated enclosure for full protection against dust and water. It operates reliably in extreme temperatures from -30°C to +55°C (-22°F to 131°F), making it ideal for harsh environments. The sturdy metal housing enhances durability and impact resistance, ensuring long-term stability and dependable performance in all weather conditions.

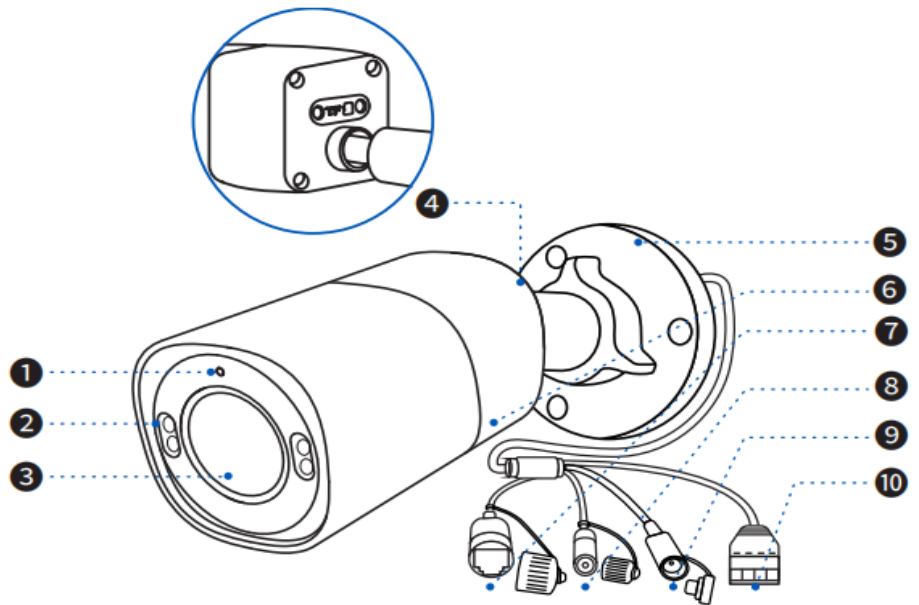
Flexible Alarm Integration

The system includes one alarm input and one alarm output port, allowing seamless integration with external alarm devices such as sensors, speakers, and strobe lights. The ports support up to 12V/1A for input and 12V/10mA for output, enabling reliable and responsive alarm connectivity for enhanced security setups.

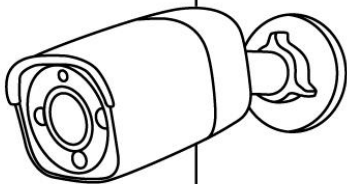
Reolink Specification

Video & Audio	
Image Sensor	1/1.8" CMOS Sensor
Resolution	3840x2160 (8 Megapixels) @30fps
Lens	f=4mm, F=1.0
Video Compression	Intelligent H.265+/H.265/H.264
Field of View	Horizontal: 93.2°
	Vertical: 48.2°
	Diagonal: 111.6°
Day & Night	N/A
Infrared Night Vision	N/A
Color Night Vision	Spotlights: 4pcs LEDs/4000K/600 lumens
Frame Rate	Main Stream: 2fps - 30fps(default: 30fps)
	Sub Stream: 4fps - 15fps(default: 10fps)
Code Rate	Main Stream: 2048Kbps - 9216Kbps(default: 7168Kbps)
	Sub Stream: 64Kbps - 512Kbps(default: 512Kbps)
Audio	Two-way audio
AI	
AI Video Search	Yes
Person & Object Detection	Person Detection, Vehicle Detection, Animal Detection, Motion Detection
Smart Event Detection	Object Removal Detection(Beta) , Forgotten Object Detection(Beta)
Perimeter Protection	Line Crossing Alert, Zone Intrusion Alert, Zone Loitering Alert
Smart Detection Setting	Person object size; Person sensitivity; Person alarm delay; Motor Vehicle object size; Motor Vehicle sensitivity; Motor Vehicle alarm delay; Animal object size; Animal sensitivity; Animal alarm delay; Non-motorized vehicle object size; Non-motorized vehicle sensitivity; Non-motorized vehicle alarm delay; Package object size; Package sensitivity; Package alarm delay; Detection zone
Software	
Browser Supported	Edge, Chrome, Firefox, Safari
OS Supported	PC: Windows, Mac OS; Smartphone: iOS, Android
Protocols & Standards	HTTPS, SSL, TCP/IP, UDP, HTTP, IPv4, UPnP, RTSP, RTMP, SMTP, NTP, DHCP, DNS, DDNS, FTP, P2P, ONVIF
User Access	Max. 20 users (1 admin & 19 users);
	Max. 12 simultaneous streams (2 main & 10 sub streams)
Other Features	
Record Mode	Motion-triggered recording (default); Scheduled recording, 24/7 recording
Smart Home Compatibility	Google Assistant
AI ISP	Yes
WDR	Yes
Time Lapse	Yes
Power	
PoE	IEEE 802.3af, 48V, Active
DC Power	DC 12.0V= 2A, <15W
Interface	
Reset Button	Yes
Ethernet	One 10M/100Mbps RJ45
Storage	microSD card slot (Max. 512GB), Reolink NVR, FTP
Audio In/Out	Built-in Microphone & Speaker
Alarm In/out	1 Input, 1 Output (Input: 12V/1A; Output: 12V/10mA)
Working Environment	
Operating Temperature	-30°C~+55°C
Operating Humidity	10% ~ 90%
Weatherproof	IP67
Mechanical	
Dimensions	76x74x220mm
Weight (Without Accessories)	756g
Warranty	
Limited Warranty	3-year limited warranty. For support, visit https://support.reolink.com/hc/en-us/ .

- ① Daylight Sensor
- ② Spotlight
- ③ Lens
- ④ microSD Card Slot
- ⑤ Mount
- ⑥ Speaker
- ⑦ PoE Port
- ⑧ Reset Button
- ⑨ Power Port
- ⑩ Alarm In/Out



Wall Mount



Ceiling Mount

