Reolink Professional Series

RP-PCT16MD

16MP Smart PoE Camera with 180° Dual-Lens and Color Night Vision

- 16MP — 16MP Resolution @25fps
- 180° — 180° Panorama
- Color Night Vision
- AI Video Search
- Person & Object Detection
- Smart Event Detection
- Perimeter Protection
- IP67 Weatherproof
- Infrared Night Vision
- Active Deterrent
- Two-Way Audio
- Metal Housing
- Works with Google Assistant
- Time-Lapse Recording
- Multi-Platform Remote Access
- H.265 — H.265/H.264 Dual Codec Support

Feature Descriptions

Panorama View

The dual-lens camera uses advanced dual-image stitching algorithm to seamlessly stitch two views into a single 180° panoramic image with no blind spots. It ensures consistent brightness and color across the entire image for a natural viewing experience. With one unit covering what typically requires two, it reduces installation time and costs.

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, animals, non-motorized vehicles, and packages. It can also recognize abnormal events such as Object Removal and Forgotten Object, enhancing situational awareness and security response.

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.

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.

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.

Multiple Light Modes

Equipped with both infrared LEDs and spotlights, the camera offers flexible lighting options. It automatically switches to infrared mode at night for clear black-and-white images in low-light environments. When spotlight is enabled, it delivers full-color night vision. Choose from three spotlight modes—Always On, Alarm-Triggered, and Manually Off—to suit different security needs and provide effective visual deterrence.

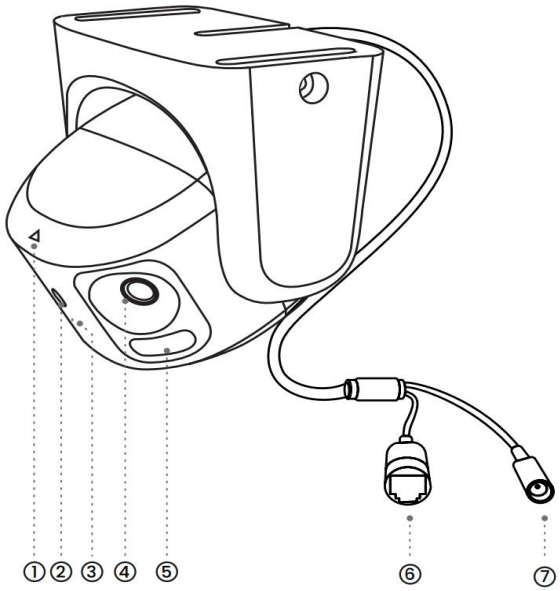
Rugged & Weatherproof Design

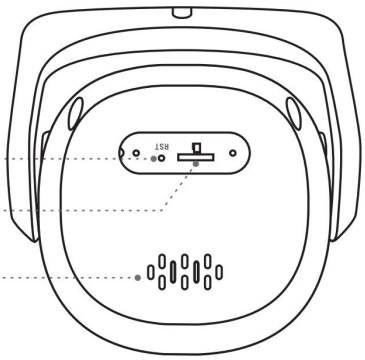
Built for the outdoors, the camera features an IP67-rated enclosure for full protection against dust and water. It operates reliably in extreme temperatures from -30°C to +55°C (-22°F to 131°F), making it ideal for harsh environments. The sturdy metal housing enhances durability and impact resistance,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

Reolink Specification

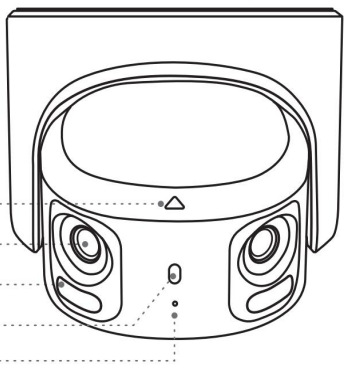
Video & Audio	
Image Sensor	1/2.8" CMOS Sensor
Resolution	7680*2160(16Megapixels)@25FPS
Lens	f = 2.8 mm fixed, F = 1.6
Zoom	N/A
Video Compression	H.265/H.264
Field of View	Horizontal: 180°
	Vertical: 60°
Day & Night	IR-cut filter with auto-switching
Infrared Night Vision	Up to 30 meters(100ft); LED: 3pcs/850nm
Color Night Vision	With spotlights:3pcs LEDs/4000K/400 lumens
Frame Rate	Main Stream: 4fps-25fps(default:25fps)
	Sub Stream: 4fps - 20fps(default: 20fps)
Code Rate	Main Stream: 3072Kbps -12288Kbps(default:10240Kbps)
	Sub Stream: 256Kbps - 2048Kbps(default: 1024Kbps)
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; Vehicle object size; Vehicle sensitivity; Vehicle alarm delay; Animal object size; Animal sensitivity; Animal 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
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
Motion Track	Yes
Time Lapse	Yes
Power	
PoE	IEEE 802.3af, 48V, Active
DC Power	DC 12.0V⎓2A, <12W
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
Working Environment	
Operating Temperature	-30°C~+55°C
Operating Humidity	10% ~ 90%
Weatherproof	IP67
Mechanical	
Dimensions	132mmx131mmx72mm
Weight (Without Accessories)	775g
Warranty	
Limited Warranty	2-year limited warranty. For support, visit https://support.reolink.com/hc/en-us/.

Product Explanation

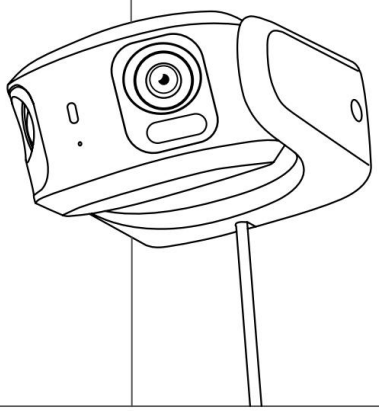




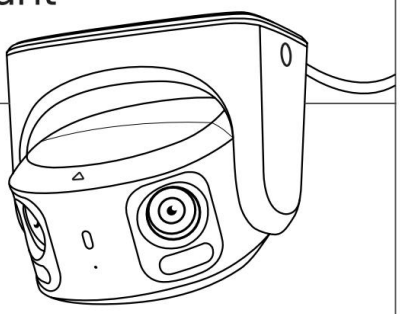
① Up Sign
② Daylight Sensor
③ Mic
④ Lens
⑤ Infrared/white Light
⑥ LAN Port
⑦ Power Port(optional)



Wall Mount



Ceiling Mount



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Note: Data subject to change without notice