



16 Megapixel 360° Panoramic Network Camera

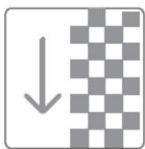
PLC-4816M-AI-PN-IR3/PM

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Day/Night



3D DNR



Starlight



VCA



IK10



IP67



PoE++



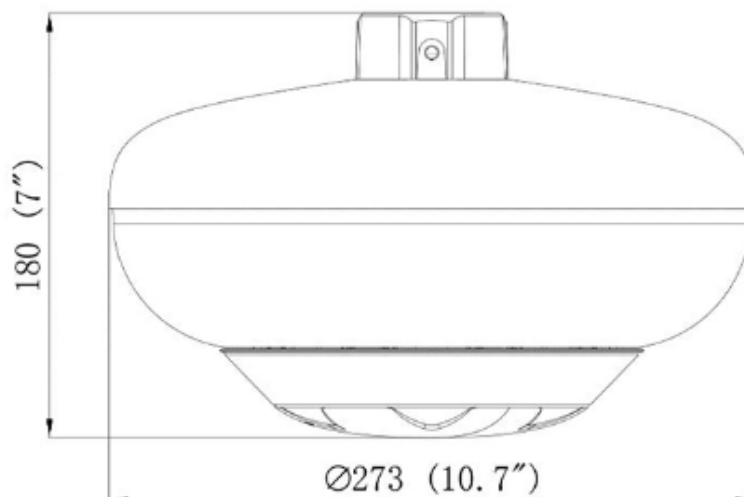
H.265



Key Features:

- ❖ Eight 1080P video modules are stitched together to create 16MP video stream.
- ❖ Delivers 16MP resolution ($4096 \times 1800 \times 2$) for smooth, real-time monitoring.
- ❖ Operates with one IP address and one video interface
- ❖ Requires one PoE++ cable, reducing installation time
- ❖ 6th-generation stitching technology ensures seamless images
- ❖ 6th-generation Starlight + HDR technology delivers vivid color images
- ❖ Circular IR illumination covering 360° horizontal $\times$ 90° vertical up to 30 meters.
- ❖ Programmable VCA supports human and vehicle detection.
- ❖ Built-in 4 TOPS deep-learning AI engine with 8 GB DDR memory for future AI.
- ❖ Supports alarm triggers based on smart motion detection
- ❖ Fully supports ONVIF standards with third-party network video systems.
- ❖ Full interface support: RJ45, SD card, alarm I/O, audio, reset
- ❖ Built-in heater and fan, IP67 waterproof, IK10 vandal-resistant
- ❖ Supports PoE++ (802.3.bt, Class 6) as well as DC 24V / AC 24V power input.
- ❖ Supports VR linkage, e-tags, e-map applications, and POLLO PVMS Plus
- ❖ Remote monitoring via smartphones running iOS and Android.
- ❖ Includes video blur detection, scene change detection, line crossing detection

Dimensions:



Specifications:

Model	PLN-4816M-AI-PN-IR3/PM
Image sensor	1/2.8" progressive scan CMOS image sensor x8
Mini. Illumination	Color : 0.008Lux @ (F2.0, AGC ON) ; B/W : 0.008Lux @ (F2.0 AGC ON); 0Lux with IR
Image setting	Image vertical rotation, Saturation, Brightness, Contrast, Sharpness, AGC, and AWB adjusted by client software/browser
Shutter Speed	1/1 s – 1/100,000 s
White Balance	Auto/Manual/Indoor/Outdoor
Gain	Auto/Manual
Day & Night	IR Cut filter
Privacy Mask	8 Programmable privacy masks
Image Enhancement	3D DNR, Digital zoom, Logo picture Overlay
Vertical Rotation	Manual adjustment, 8 pitches, 45°per pitch
Focus length	3.3mm, x8
Aperture	F2.0
FOV	Panoramic image: Horizontal FOV: 2x180° (360°) ; Vertical FOV: 85°
Working distance	1.0m ~ INF
IR Range	20m in radius, 360°(H) × 90°(V)
Smart IR	Yes
Max Resolution	8192 × 1800, 25/30fps
Main stream	8192 × 1800, 3840 × 1680, 2784 × 1200 (1~30fps)
Sub stream:	2048 × 896, 1280 × 560, 704 × 320 (1~30fps)
Third stream:	704 × 320 (1~30fps)
Video compression	H.265/H.264/ MJPEG
Audio compression	G.711 A/U
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE
Simultaneous live view	Up to 6 channels
User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
Basic event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error)
Smart Detection	Up to 8 regions configurable: Human/vehicle detection and classification, Face comparison, Intrusion detection, Line crossing detection, Region entrance detection, Region exiting detection, Scene change detection, etc.
ROI	Up to 4 regions configurable
Alarm Linkage	Upload to FTP/Memory card, send email, trigger alarm output, trigger recording, trigger snapshot
Alarm Interface	1CH alarm input; 1CH alarm output
Audio Interface	1CH audio input, 2 to 2.4v[p-p] 1kΩ±10%; 1CH audio output (line out), impedance: 600Ω
Network Interface	1 RJ45 10M/100M/1000M Adaptive Ethernet (Support PoE++(802.3.bt, class 6))

Storage	Built-in memory card slot, support microSD/SDHC/SDXC, up to 256G
API	ONVIF, support Pollo SDK and third-party management platform
Client	Pollo NVR, Pollo PVMS Plus (Support VR, e-Tag, e-map application)
Web Browser	IE8-11
Power	AC24V, DC24V, PoE++ (802.3.bt, class 6), (Max 45W, include IR on, Fan on and Heater on)
Working condition	-30°C ~ 55°C (-22 °F ~ 131 °F),90%RH less (non-condensing), Cold start at - 20°C
Storage condition	-40°C ~ 70°C; ≤ 95% RH
Protection	IP 66, IK10, 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Material	Camera body: Aluminium Alloy; Bubble and IR cover: Plastic
Dimensions	Φ 273mm x H 180mm (Φ 10.7" x 7")
Weight	Net weight Approx. 2.0Kg (4.4 lb)
Certification	IK10(exclude plastic cover), IP67, ROHS, CE, FC