



4 Megapixel 45x Laser PTZ Camera

PLC-9445-AI-IR80/PM

www.pollo.net.au

info@pollo.net.au



VCA



Smart tracking



Perimeter



PoE++



Wiper



IP67



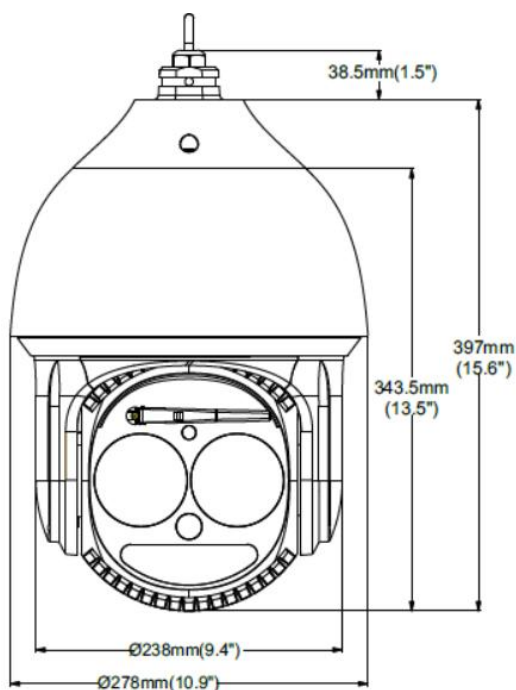
800m

Key Features:

- ❖ 1/1.8" progressive CMOS
- ❖ 2560x1440 Pixels (2K) Resolution
- ❖ 0.0005 Lux Min. Illumination for Day Time Color View
- ❖ 800-meter IR Night View Range
- ❖ 45X Optical Zoom with 5.0~225mm Varifocal Lens
- ❖ Support Face Detection, Capturing and Comparison
- ❖ Smart tracking of human and vehicles
- ❖ Support smart detection and perimeter protection
- ❖ Motion Detection Alarm Trigger
- ❖ Line Crossing Detection
- ❖ Region Intrusion Detection
- ❖ Highlight Compensation for Image Correction
- ❖ Backlight Compensation for Image Correction
- ❖ ONVIF Protocol Supported
- ❖ IP67 Water & Dust Proofing
- ❖ PoE (IEEE802.3af)



Dimensions:



Specifications:

Model	PLC-9445-AI-IR80/PM
Image sensor	1/1.8" progressive CMOS (SONY IMX664)
Max resolution	2560x1440
Mini. Illumination	Color : 0.0005 Lux @ (F1.2,AGC ON) ; B/W : 0.0001 Lux @ (F1.2, AGC ON). 0Lux with IR
Image setting	Saturation, Brightness, Contrast, Sharpness, AGC, AWB, etc. adjusted by client
Shutter Speed	VL80:50Hz : 1/25s-1/25,000s, 60Hz: 1/30s-1/30,000s. VL81:50Hz: 1/50s-1/50,000s,60Hz:1/60s-1/60,000s
White Balance	Auto/Manual/Indoor/Outdoor
Gain control	Auto/Manual
SNR	≥52dB
Day & Night control	Auto Mode, Manual Mode, Scheduled-switch, Timer.
Focus control	Auto, Manual (Near/Far)
Iris control	Auto/Manual
Noise Reduction	2D/3D DNR, Auto/Manual
AE Enhancement	BLC, HLC, HDR
Digital Zoom	16X
Image Stabilizer	DIS
Optical Defog	Built-in optical defog filter
Privacy Mask	4 areas per scene
Picture overlay	Logo picture could be overlaid on video, 16x16,24x24,32x32,48x48,64x64,96x96,128x128pixels
OSD overlay	Max 15 characters/line, 8 lines, white or red font color, text such as week, date, time
Focus length	f= 5 ~ 225mm lens,45x optical zoom±5%
Zoom Speed	Approx. 5.2s (optical zoom, wide-tele) ±5%
Field of View	Horizontal:59° to 1.98°. Vertical: 34.14° to 1. 12°.Diagonal: 67.08° to 2.27°. (wide-tele) ±5%
Image distance	wide: 1.0m ~ INF; tele: 1.5m ~ INF
Aperture type	F1.2~F4.6(wide-tele), P-IRIS, 6 slices Diaphragm, support auto/manual
IRCut Type	Removable IR Cut filter, absorbing type to anti flare and smear by Sun and headlamps of vehicles
Pan Range	360°endless
Pan speed	Configurable, from 0.1~180°/s; Preset speed: 240°/s
Tilt Range	Mechanical: from -25° to 155°, auto flip at 90°
Tilt Speed	Configurable, from 0.1~150°/s, Preset speed: 180°/s
Proportional Zoom	Yes
Preset	360
Cruise	8 cruises, up to 16 presets for each cruise

Trace	4 traces, record time over 3 minutes for each trace
Power off memory	Support
Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
3D Positioning	Support
PTZ Position Display	Support
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
Light distance	800m (2,625 f.t.)
Illuminator type	Zoomed IR Laser illuminator,850nm, IEC Class 4 eye safety, diagonal 70°~2.1° continuous variable.
Smart IR	Yes
Mainstream	2560x1440,1920x1080,1280x960,1280x720. (VL80: 25/30fps, VL81: 25/30/50/60fps)
Sub stream	50Hz/25fps:704 × 576, 640 × 480, 352 × 288. 60Hz/30fps:704 × 480, 640 × 480, 352 × 240
Third Stream	50Hz/25fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288. 60Hz/30fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240
Video compression	Mainstream: Smart H.265+/H.265/H.264+/H.264 Sub stream: Smart H.265+/H.265/H.264/MJPEG Third stream: Smart H.265+/H.265/H.264/MJPEG
H.264 Standard	H.264/AVC codec BP/MP/HP, Level 5.1
H.265 Standard	H.265/HEVC codec MP, level 5.0
Video Bit Rate	32 Kbps to 16Mbps
Audio compression	G.711 A/U
Audio Bit Rate	64K bps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE, P2P, RTMP
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
API	ONVIF G/S/T/Q, support POLLO SDK and third-party management platform
Client	POLLO PVMS Plus, the third-party client, free iOS and Android App
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plugin free
Basic event	Motion detection, video tampering alarm, alarm input, alarm output, exception ((Network disconnected, IP address conflict, SD full, SD error)
Smart event	Line crossing detection, region entrance detection, object removal detection, intrusion detection, region exiting detection, audio exception detection
Smart tracking	Manual/Auto-tracking of human/no-motor vehicle/motorized vehicle(ver5.1.1)
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.

Face capture	Detecting multiple faces in the same scene. Support detecting, capturing, grading, and output the best.
Fac comparison	(Default off) Yes
Perimeter protection	Line crossing, Intrusion, Region entrance, Region exiting. Support alarm triggering by specified type.
Road traffic	Support vehicle detection and tracking(ver5.1.1)
Alarm Interface	7CH alarm input (Dry contact); 2CH 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 Adaptive Ethernet
SD Card Slot	One MicroSD slot and chamber, up to 256G
RS485	Half-duplex, Pelco-P/D
Reset button	Yes
Electric Fan & Heater	Built-in electric fan for heat sink and glass Frost/Fog removal. Built-in electric heater for cold start.
Water removal	Electric wipe for water-drops, dust, mud, ice, frost. Time-schedule/manual.
Demist	Active electric heating and air loop
Languages	Czech; English, German; Hungarian; Italian; Japanese; Korean; Portuguese, Polish; Russian, Romanian, Spanish; Spanish (Mexico); Simplified Chinese; Turkish; Traditional Chinese. Etc.
Power consumption	avg:36W, max 63.6Watt (PTZ working + IR ON + Heater on)
Power adaptor	DC36V3000mA, CE/FC/UL, 0-40°C AC24V5000mA, CE/FC/UL,-40°C,+70°C 90W PoE++ Midspan, FCC/UL/GB,-10,+50°C
Work condition	-40°C~70°C(-48°F ~ 158°F) IR off; -40°C~50°C, IR on; Cold start>=- 30°C(0.5~1.5 hour waiting); 90%RH
Storage condition	-20°C~70°C; ≤ 80% RH
Material	Aluminum Alloy (ADC12)
Dim. & Weight	Φ 278mm x H 435.5mm(Φ 10.9'x 17.1'), Net weight approx. 8.8 Kg (19.4 lb.)
EMC	FCC SDoC (47 CFR Part 15, Subpart B). CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011+A1: 2014). KC (KN 32:2015, KN 35: 2015)
Certification	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014). CE-LVD (EN 62368-1:2014+A11:2017), BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67(IEC 60529-2013), IK10 (IEC 62262:2002),6000V Lightning Protection, Surge Protection and Voltage Transient Protection