

pöllö  
*Prime Series*



**4MP 4X MINI PTZ**

**PLC-944-AD-DL5/PM**

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Smart  
Tracking



Starlight



WDR



Auto Day/Night



Active  
Deterrence



PoE+



IP66



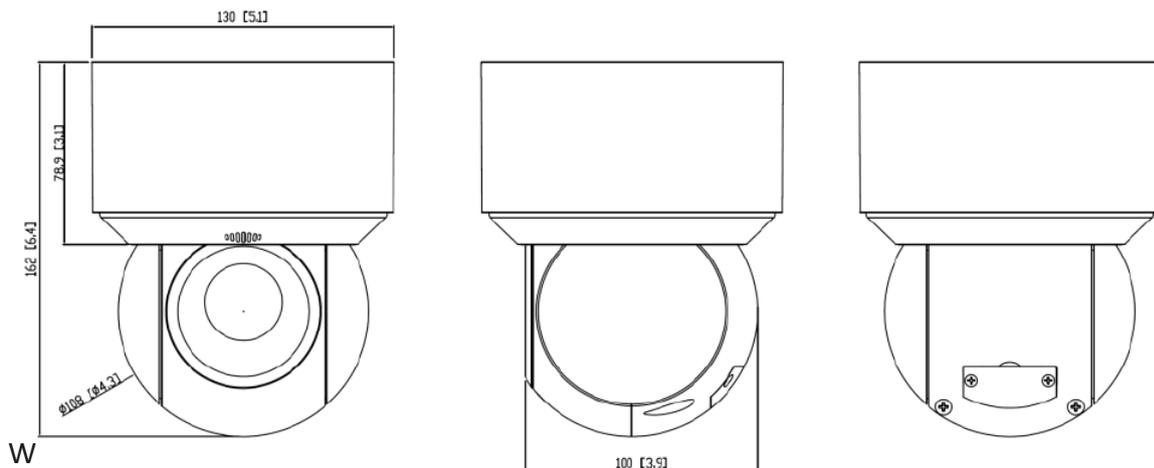
H.265



## Key Features:

- ✔ Progressive scan BSI+NIR image sensor
- ✔ Up to 2560x1440 resolution
- ✔ Mini illumination: Colour: 0.01 lux @ (F1.6 AGC ON) 0 Lux with IR
- ✔ 4x optical zoom, fast and accurate
- ✔ Smart 4 IR LEDs, up to 50m; 2 white LEDs, up to 30m
- ✔ Bi-directional audio, built-in Mics & Speaker
- ✔ 30m for audible warnings, 7m for voice recording
- ✔ AI-based human vehicle detection & classification and tracking, perimeter precaution, crossing line, etc.
- ✔ SD/TF card chamber, reset button, Alarm in/out
- ✔ PoE+ or DC12V power supply, easy installation
- ✔ IP66 water-proof, IK10, -40°C~70°C
- ✔ Onvif, API, SDK, IE/NVR/VMS/free mobile Apps

## Dimensions:



## Specifications:

<b>Model</b>	<b>PLC-944-AD-DL5/PM</b>
<b>Image Sensor</b>	1/2.7" progressive scan CMOS with BSI and NIR+ technology
<b>Mini. Illumination</b>	Colour 0.01 Lux @ (F1.6 AGC ON) B/W 0.002Lux @ (F1.6 AGC ON); 0Lux with IR
<b>Image Setting</b>	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, and AWB adjusted by client
<b>Shutter Speed</b>	50Hz: 1/25s~1/25,000s, 60Hz: 1/30s~1/30,000s
<b>White Balance</b>	Auto/Manual/Indoor/Outdoor
<b>Gain</b>	Auto/Manual
<b>Day &amp; Night</b>	Auto/Manual
<b>S/N Ratio</b>	≥52dB
<b>3D DNR</b>	Auto/Manual
<b>AE Enhancement</b>	BLC, HLC, WDR
<b>Privacy Mask</b>	4 Programmable privacy masks
<b>Picture Overlay</b>	Logo picture could be overlaid on video with 128x128pixels, 24bits JPG format
<b>Font Overlay</b>	Max 15characters per line, 8 lines max, white colour or red colour
<b>Focus Length</b>	f=2.8-12mm lens, 4x optical
<b>Zoom Speed</b>	About 1.6s (Wide->tele)
<b>Field of View</b>	Horizontal: 97° to 31°±5%; Vertical: 51° to 18°±5%; Diagonal: 115° to 36°±5% (wide-tele)
<b>Working Distance</b>	Wide: 0.3m ~ INF; tele: 0.5m ~ INF
<b>Aperture Range</b>	F1.6~ F2.7 (wide-tele)
<b>IR Cut Filter</b>	Electrical switchable ICR
<b>Pan Range</b>	0~355°
<b>Pan Speed</b>	Configurable, from 0.1~80°/s; Pre-set speed: 80°/s
<b>Tilt Range</b>	From -5° to 90°
<b>Tilt Speed</b>	Configurable, from 0.1~ 60°/s, pre-set speed: 60°/s
<b>Pan/Tilt Action Interval</b>	At least 10 seconds, adjustable
<b>Proportional Zoom</b>	Yes
<b>pre-set</b>	300
<b>Cruise</b>	8 cruises, up to 16 pre-sets for each cruise
<b>Trace</b>	4 traces, record time over 3 minutes for each trace
<b>Power-off Memory</b>	Support
<b>Action Mode</b>	pre-set/Cruise/Trace/Auto Scan/Random Scan
<b>3D Positioning</b>	Support
<b>PTZ Position Display</b>	Support
<b>Schedule Task</b>	pre-set/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
<b>IR Distance</b>	Up to 50m, 4pcs of IR array into 2 groups, auto switch with zoom ratio
<b>Smart IR</b>	Yes
<b>White Light Distance</b>	Up to 30m, 2pcs of White LED Array
<b>White Light Mode</b>	Flashing mode, torque mode, time interval adjustable

<b>Max Resolution</b>	2560×1440
<b>Main Stream</b>	25fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720); 30fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720)
<b>Sub Stream</b>	25fps (704 × 576, 640 × 480, 352 × 288) 30fps (704 × 480, 640 × 480, 352 × 240)
<b>Third Stream</b>	25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288) 30fps (1280 × 720, 704 × 480, 640 × 480, 352 × 240)
<b>Video Compression</b>	Smart H.265+/H.265/H.264+/H.264/MJPEG
<b>H.264 Encoder</b>	H.264/AVC codec BP/MP/HP, level 5.1
<b>H.265 Encoder</b>	H.265/HEVC codec MP, level 5.0
<b>Video Bit rate</b>	64Kbps ~ 16Mbps
<b>Audio Compression</b>	G.711 A/U
<b>Audio Bit rate</b>	64Kbps
<b>Protocols</b>	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE
<b>User / Host</b>	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
<b>Security Measures</b>	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
<b>Basic Event</b>	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error)
<b>Face Recognition</b>	Default do not support human face detection capture, face comparison (customized per request)
<b>Road Traffic</b>	Vehicle detecting and tracking, etc.
<b>Smart Detection</b>	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, etc.
<b>Smart Tracking</b>	Smart tracking of human or vehicle, auto/manual
<b>Active Deterrence</b>	Flash strong white light and predefined voice upon invaders detected. Support 10+ different predefined voice clips
<b>Two-way talk</b>	Support two-way talk
<b>Ext. Audio Interface</b>	1-ch audio input (mic in), 2.0-2.4Vp-p, 1kΩ±10%; 1-ch audio output (line out), line level, impedance: 600 Ω;
<b>Built-in speaker</b>	Yes, One Speaker, 4Ω, 2.5Watt. Rotation with camera, up to 30m distance audible
<b>Built-in MIC</b>	1channel, rotation with camera lens direction, up to 8m distance voice recordable.
<b>Audio device switch</b>	Default use built-in speaker and MIC, manually switch to external
<b>Alarm interface</b>	1CH alarm input (Dry contact); 1CH alarm output
<b>Alarm Linkage</b>	Alarm actions, such as pre-set, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.
<b>Network Interface</b>	1 RJ45 10M/100M Adaptive Ethernet (Support PoE+)
<b>Storage Slot</b>	Standalone memory card chamber, support micro-SD/TF card, up to 256GB
<b>Reset Button</b>	Yes

<b>Heat and Fan</b>	Built-in temperature sensor, auto shut down at over-temperature; auto heat at cold start. No built-in fan.
<b>Water Removal</b>	Dust and Water-resistant coating
<b>API</b>	ONVIF, support Pollo SDK and third-party management platform
<b>Client</b>	PVMS Plus and the third-party client, free iOS and Android APP
<b>Web Browser</b>	IE8-11, plug-in free
<b>App Version</b>	5.1.1 and later
<b>Languages</b>	Czech; English, German; Hungarian; Italian; Japanese; Korean; Portuguese, Polish; Russian, Romanian, Spanish; Spanish (Mexico); Simplified Chinese; Turkish; Traditional Chinese. etc.
<b>Power</b>	DC12V±20%, 2000mA, or PoE+ (802.3.at, class 3), AVG 3.3W, MAX14.9W at day; 18.9W at night (LED on + Speaker on + PTZ working)
<b>Working Condition</b>	-40°C ~ 65°C (-40°F ~ 149°F) IR off, -40°C ~ 55°C IR on; Cold start ≥ -25°C (1 Hour waiting), ≤ 90% RH
<b>Storage Condition</b>	-40°C ~ 70°C ; ≤ 95% RH
<b>Protection</b>	6000V Lightning Protection, Surge Protection and Voltage Transient Protection
<b>Shield Material</b>	Main body: Aluminium Alloy (ADC12), Decoration: Polymer (Glass fiber and Plastic)
<b>Dimensions</b>	130mm x 162mmH ( 5.1' x 6.4')
<b>Net Weight</b>	Approx. 1.2Kg (2.645lb.)
<b>Certification</b>	IP66, IK10 (include lens window), ROHS, CE, FC, UKCA