

PD1103Z2-EI

Intelligent IP outdoor PTZ camera, 3 MP, 36x opt.zoom, WDR, autotracking, IR

- ✓ 1/3" Progressive scan CMOS imager
- ✓ 3MP @ 60 fps (2048 x 1536) autofocus lens
- ✓ 120 dB WDR
- ✓ Built-in IR illuminator (effective distance: 200 m)
- ✓ Support defog, BLC, HLC
- ✓ Intelligent VCA
- ✓ Autotracking
- ✓ Low bit rate, low latency
- ✓ IP66/ IK10
- ✓ ONVIF Profile S and G conformant



Description

The PD1103Z2-EI is a 3 megapixel IP outdoor PTZ camera with built-in IR illuminator, providing clear images in any situation. A motorised 36x optical zoom autofocus lens ensures sharp and clear images at all times, both nearby and far away. The camera has a wide range of intelligent features to offer good image quality at all times, low storage costs and video analytics to detect numerous events.

Multistream high definition

The integrated camera has multistream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Streaming 3 megapixel HD (2048 x 1536) @ 30 fps is possible. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios.

Open standards

Multiple options are available to easily integrate the PD1103Z2-EI to a video management system. In support of open standards, the PD1103Z2-EI is compliant with a range of APIs and standards, such as ONVIF (Profile S / Profile G).

Power source choices

The PD1103Z2-EI can be powered with 24 Vac or over the network with Hi-PoE (60 W) sources.

Intelligent features

A wide variety of intelligent features can be used to influence image quality and fluency such as smart IR, defog, BLC and HLC. With regional cropping, details can be seen in the image even with low bandwidth. The camera features an extensive set of intelligent VCA which assists the operator in detecting any anomalies and watching over your safety

Day/Night, BLC and WDR

The camera provides automatic day/night functionality, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. This ensures quality pictures at all times. The wide dynamic range function brings details in the darker areas of an image without saturation in the brighter parts.

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Technical Specifications

Camera	
Image sensor	1/3" Progressive scan CMOS
Lens	Motorised 4.5 - 162 mm, F1.6
Zoom	36x Optical zoom, 16x digital zoom
Focus	Autofocus
Horizontal field of view	54.5° ~ 2.7°
Min. illumination	Colour: 0.05 lux, B/W: 0.01 lux
Day/Night	IR-cut filter with auto switch
WDR	120 dB
Shutter speed	1 s ~ 1/30,000 s
Slow shutter	Support
White Balance	Manual, Auto, Outdoor, Indoor, Fluorescent lamp, Sodium lamp Auto-tracking.
Pan / Tilt	
Pan travel	360° Continuous
Tilt travel	-20° ~ 190°
Preset speed	Pan: 240°/s, Tilt: 200°/s
Manual speed	Pan: 0.1°~160°/s, Tilt: 0.1°~120°/s
Presets	300
Cruise	10
Sequence	8
Proportional pan and tilt	On/off
Home function	Preset / Cruise / Sequence / Autoscan / Tilt scan / Random scan / Frame scan / Panorama scan
Freeze frame	On/off
Video	
Video compression	H.264/MJPEG
H.264 type	Baseline Profile / Main Profile / High Profile
Video bit rate	32 kbps – 16 Mbps
Region of interest	6 Areas with adjustable levels
Max. resolution	2048 x 1536 50/60fps no WDR, 2048x1536 25/30fps WDR
Main stream	2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x960 (50x60fps) , 1280x720 (50/60fps)
Sub stream	704x576 (50/60fps), 640x480 (50/60fps), 352x288 (50/60fps)
Third stream	1280x720 (25/30fps), 704x576 (25/30fps), 640x480 (25/30fps) 352x288 (25/30fps)
Image enhancement	BLC / HLC / 3D DNR / Defog
Image setting	Saturation, brightness, contrast, sharpness
Day/Night switch	Auto/Schedule/Triggered by Alarm In
Picture overlay	Picture can be overlaid on video with 512x512 24-bit bmp format
Privacy masks	24
Audio	
Audio compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio bit rate	64 kbps (G.711) / 16 kbps (G.722.1) / 16 kbps (G.726) / 32-160 kbps (MP2L2)
Environment noise filtering	Support
Audio Input	1 Mic in/Line in interface Line input: 2-2.4V[p-p]; output impedance: 1K Ω , \pm 10%
Audio Output	1 Audio output interface Line level, impedance: 600 Ω
Audio sampling rate	16 kHz / 32 kHz / 44.1 kHz / 48 kHz
Intelligent features	

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Technical Specifications

Behavior analysis	Line crossing detection, Intrusion detection, Region entrance, Region exiting
Line crossing detection	Cross a user-defined virtual line, unidirectional or bidirectional
Intrusion detection	Enter and loiter in a user-defined region
Region entrance	Enter a user-defined region
Region exiting	Exit from a user-defined region
Exception detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition
Statistics	Object counting (Entrance and Exit object number is accounted and shown on screen in real time)
Auto tracking	Manual / Panorama / Intrusion trigger / Line crossing trigger / Region entrance trigger / Region exiting trigger
Network	
Network storage	NAS (Support NFS, SMB/CIFS), ANR
Alarm trigger	Intrusion detection, line crossing detection, region entrance, region exiting, audio exception detection, motion detection, audio exception detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, NTCIP, IGMP, 802.1X, QoS, IPv4/IPv6, Bonjour
Security	User authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF (Profile S, Profile G), PSIA, CGI, ISAPI
Environmental	
Protection level	IP66
Impact protection	IK10
Operating conditions	-40 °C – +65 °C (-40 °F – +149 °F), Humidity 90% or less (non-condensing)
Power supply	24 Vac ± 10%, Hi-PoE (60 W)
Power consumption	Max. 60 W
MTBF	30 °C: 121.452 hrs; 50 °C: 50.880 hrs
Mechanical	
Audio	1x audio in (mic in/line in) / out interface
Communication interface	1 RJ-45 10M/100M/1000M Ethernet port, 1 RS-485 interface
Alarm	7 input, 2 output
Video output	1 Vp-p composite output (75 Ω/BNC)
Built-in IR illuminator	
Working distance	Up to 200 m
Wavelength	850 nm
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 128 GB
Reset button	Yes
Dimensions	Ø 266 x 365 mm
Weight	8 kg
Colour	RAL 9003 (signal white)
Heater/fan	Yes/yes
Ordering information	
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The quality management system used in the development, production, sales, and support of this product is ISO 9001 certified by LRQA.

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