PD1102Z2-E

Intelligent IP outdoor PTZ dome

- ✓ 1/1.9" Progressive scan CMOS imager
- ✓ 2MP @ 30 fps
- ✓ Motorised 36x optical zoom lens
- ✓ 120 dB WDR
- ✓ Support defog, BLC, HLC
- ✓ Intelligent VCA
- ✓ NTCIP protocol for Traffic applications
- ✓ Compass and advanced OSD
- ✓ IP67/ IK10
- ✓ ONVIF Profile S and G conformant
- ✓ EIS (Electronic Image Stabilization)

Description
The PD1102Z2-E is a 2 megapixel IP outdoor PTZ dome camera providing clear images in any situation and optimized for Traffic applications. A motorised 36x optical zoom 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, and video analytics to detect numerous events.

Multi-stream high definition
The integrated camera has multi-stream capability for simultaneous streaming of H.264/H.264, H.264/MPEG4, or H.264/MJPEG. Streaming 2 megapixel HD (1920 x 1080) @ 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 PD1102Z2-E to a video management system. In support of open standards, the PD1102Z2-E is compliant with a range of APIs and standards, such as ONVIF (Profile S / Profile G), Pelco-D and NTCIP for traffic purposes.

Power source choices
The PD1103Z2-E 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 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 anomalies.
When used on cellular networks, the VCA trigger can be the reason for an operator to open the high bandwidth stream, hence saving cellular network costs.

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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PD1102Z2-E

Technical Specifications

Camera	
Image sensor	1/1.9'' Progressive scan CMOS
Lens	Motorized 5.7 – 205.2 mm, F1.5 – F3.4
Zoom	36x Optical zoom, 16x digital zoom, proportional zoom
Focus	Autofocus / semi-automatic / manual
Horizontal field of view	58.7º (W) to 2.0º (T)
Range	360º endless; tilt -15º to 90º auto-flip
Speed	Pan manual: 0.1 º - 300º/s; Tilt manual 0.1 º - 240º/s
Min. illumination	AGC On: Color: 0.002 lux, B/W: 0.0002 lux
Signal to noise ratio	>55dB
Digital Noise Reduction	3D DNR
Day/Night	IR-cut filter with auto switch
WDR	120 dB
Shutter speed	1 s to 1/30,000 s
Slow shutter	Supported

Video	
Video compression	H.264/MPEG4/MJPEG
H.264 type	Baseline Profile / Main Profile / High Profile
Video bit rate	32 kbps to 16 Mbps
Region of interest	24 Areas with adjustable levels
Max. resolution	1920x1080 25/30fps WDR
Main Stream	1920X1080 (25/30fps), 1280X960 (25/30fps), 1280x720 (25/30fps)
Sub Stream	704x480 (25/30fps), 352X240 (25/30fps), 176X120 (25/30fps)
Third stream	1920x1080 (25/30fps), 1280X960 (25/30fps), 1280x720 (25/30fps) 704x480 (25/30fps), 352X240 (25/30fps), 176X120 (25/30fps)
Image enhancement	3D DNR, EIS, HLC/BLC, SVC, Defog
Image setting	Corridor mode, saturation, brightness, contrast, sharpness
Regional cropping	Support
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	up to 24

Audio	
Audio compression	G.711ulaw/G.711alaw/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: 1KΩ, ±10%
Audio Output	1 Audio output interface Line level, impedance: 600Ω
Audio sampling rate	16 kHz / 32 kHz / 44.1 kHz / 48 kHz

Intelligent features	
Behaviour 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
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

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Technical Specifications

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, Pelco-D, Pelco-P, Diamond protocol
Security	User authentication, IP address filtering, host authentication
Standard	ONVIF (Profile S, Profile G), PSIA, CGI, ISAPI

Environmental	
Protection level	IP67
Impact protection	IK10
Surge protection	TVS 4,000V Lightning Protection, Surge Protection and Voltage Transient Protection
Ambient operating temperature	-40 °C to +65 °C (-40 °F to +149 °F),
Relative humidity	90% or less
Power supply	24 Vac ± 10%, Hi-PoE (60 W)
Power consumption	Max. 60 W

Mechanical	
Audio	1x audio in (mic in/line in) / out interface
Communication interface	1 RJ-45 10M/100M Ethernet port, 1 RS-485 interface
Alarm	7 input, 2 output
Video output	1 Vp-p composite output (75 Ω / BNC)
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 128 GB
Reset button	Yes
Dimensions	Ø 260 x 331 mm
Weight	8 kg
Colour	RAL 9003 (signal white)

Ordering information	
PD1102Z2-E	Intelligent IP outdoor PTZ dome, 2 MP, 36x optical zoom, WDR

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