

PD980

8 MP high-speed PTZ camera
with 31x zoom, IR, Wiper

Description

*Preliminary Specification*The PD980 is a 8MP IP outdoor PTZ camera. A powerful high-grade 31x optical zoom lens ensures sharp and clear images over a wide range. As an outdoor camera, IR illumination and wiper are built-in for zero lux operation and dust/raindrop. The high-speed pan, tilt, and zoom mechanism and auto-focus give instantaneous and stable focused images. Due to its unique servo feedback control the camera will always maintain its original (PT) position. When forced away from its original position the camera will return immediately.

Features

- 1/1.8 inch Progressive scan CMOS imager
- Quad stream H.264, H.265 and MJPEG
- Max 8MP 30fps, 1080p 60fps
- 31x optical zoom, 10x digital zoom
- 20° tilt above horizon without optical distortion
- 120 dB WDR (HDR)
- Secured Streaming SRTP, IEEE 802.1x authentication
- Built-In Gyro, EIS
- PT servo feedback
- ONVIF Profile S, G, and T



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The PD980 is a 8MP intelligent IP outdoor high-speed PTZ camera with built-in IR illumination and 31x optical zoom. The absence of the dome-cover eliminates problems like optical distortion, IR scattering, or sun glare due to dirt or water on the bubble.

PT Servo feedback

The PD980 pan and tilt motors are controlled by servo feedback, keeping track of the PTZ position at all times. No more drifting PTZ head due to shocks, vibration or vandalism. When the head is forced from its position, it will return immediately.

Multi-stream high definition

The camera has the capability to stream simultaneous 4 video streams in H.265, H.264 and MJPEG. Multiple combinations of encoding, resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. Each selected resolution-frame rate combination can be freely set to a stream number. Also, the optimized encoding H.265/HEVC streaming provides the clear images with less transmission bandwidth and storage capacity required.

Open standards

Multiple options are available to easily integrate the PD980 into a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S, Profile G and Profile T specification, which enables the local recording and secure HTTPS communication.

Power source choices

The PD980 can be powered with 24 Vac or over the network with Hi-PoE sources. (802.3 at 4-paired)



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CAMERA

Image Sensor	1/1.8" Progressive CMOS
Effective pixels	3864x2180(4K)
Minimum scene illumination	Color: 0.00125lux, B/W: 0.0085 lux, 0lux with IR illumination on, F1.35
Shutter Speed	1 sec. to 1/10,000 sec.
Lens	31x, 6.9-214.6 mm, Piris, F1.35
Field of view	2.3° to 63.4° horizontal, 1.4° to 37.8° vertical
Focus Control	Autofocus
Slow Shutter	Supported
Day/Night	Automatical IR-cut Filter

PTZ

Range	Pan: 360° Continuous rotation; Tilt: -20° to +20° (Mechanical Flip)
Speed	Preset : 300°/sec,
Manual	0.1°/sec ~ 90°/sec(P), 0.1°/sec ~ 55°/sec(T)
Presets	256 presets
Functions	Sequence Scan, Cruise Scan, Auto pan, Image Freeze, sets new pan 0°, Speed by Zoom, Azimuth
Smart Tracking	Manual, event, schedule, Auto-tracking

VIDEO

Video Compression	H.265 (Main Profile) / H.264 (High Profile/Main Profile) / MJPEG
Max. Resolution	3840x2160 30fps(WDR Pro on), 1920x1080 60fps (WDR Pro off)
Supported Resolution	3840x2160, 3200x1800, 1920x1080, 1280x1024, 1280x720, 1024x768,800x600, 720x480, 640x480, 352x240
Frame Rate	25/30fps, 50/60fps
Number of simultaneous streams	Quad streams
30fps (dual shutter WDR)	3840 x 2160, 800 x 600
60fps	1920 x 1080, 1920 x 1080, 352 x 240, 352 x 240
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Smart bitrate
Number of video output streams	Up to 10 (RTSP)

TOTAL OUTPUT DATA

Video output	1 Vp-p; 2-pin to BNC patch cable (For test/installation only)
Region of interest	Support

IMAGE

Wide dynamic range	120dB
White Balance	Auto, ATW, Manual, One push
Image Setting	Saturation, Brightness, Contrast, Sharpness, Backlight Compensation, Highlight Compensation, WDR, Exposure control, Gain, Defog
SNR	>48dB
Day/Night Switch	Auto/Scheduled/Triggered by Alarm In



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Specs

IMAGE	
Image Enhancement	2DNR, 3DNR, ColorNR
Image Stabilization	Gyro, support
Digital Zoom	10x
Image Rotation	90°, 180°, 270° rotation
privacy masks	16x, Color & Mosaic
Text and picture overlay	Date & time, 3x line (54 characters each), Preset title, Image, Image transparency
ANALYTICS	
Smart Analytics	Loitering Detection, Intrusion Detection, Object Abandoned, Object Removal
Event detections	External Input, Periodical Event, Tampering, Audio Detection, Manual Trigger, recording notification
Event Action	Alarm output, Record video clip to NAS/SD card, Send alarm message and image by E-mail/FTP, Send HTTP notification
AUDIO	
Capability	Two-way stereo audio
Audio Interface	1x 3.5 mm audio in (line in) ; 1x 3.5 mm audio out interface
Compression	G.711, G.726, AAC, LPCM
DATA	
Serial port	RS485
Protocols	Pelco-D, Pelco-P, Diamond protocol
ALARM	
Input	4x
Output	2x
Operational modes	Cell-based motion detection, Network Failure Detection, Tampering alarm, Alarm I/O
NETWORK	
Communication Interface	10/100/1000 Mb (RJ45)
Network protocols	IPv4/IPv6, HTTP, HTTPS (TLS1.2), 802.1x, QoS, FTP, SMTP(SSL), UPnP, SNMP(v1/v2/v3/Traps), DNS, DDNS, NTP, RTSP, RTCP, RTP/UDP, TCP/IP, IGMP(v2/v3), DHCP, PPPoE, SSL/TLS, Pelco D (TCP/UDP), Diamond (TCP/UDP), NTCIP (TCP/UDP), TACACS+, SRTP, ONVIF Profile S/G/T, Siqua Protocol
Security	User authentication, Syslog(SSL/TLS), Digest authentication (RTSP, HTTP), HTTPS encryption (TLS1.2); IEEE 802.1x port-based network access control, IP filtering, Brute attack protection
Web Viewer	Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox
GENERAL	
Protection Level	IK10, IP66
Material	Aluminum alloy(ABS) and Plastic
Edge Storage	Built-in micro SD/SDHC/SDXC slot, up to 512 GB



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Specs

GENERAL	
Power	AC24V, Forced 4-pair UPoE
IR illumination	200 meters, 850nm IR LEDs
Wiper	Built-in
Overvoltage protection	Lightning Protection, Surge Protection and Voltage Transient Protection
Ambient temperature (NEMA TS-2)	-40 °C to +74 °C (-40 °F to +165 °F)
Relative humidity	5 to 100%
MTBF (@40°C)	>130,000 h
Vibration (NEMA TS-2)	5 to 30 Hz, 0.5 g during 1 h. (x, y, and z)
Shock (NEMA TS-2)	10 g (x, y, and z)
Max wind velocity	225 km/h (150 mph)
Dimensions(camera body)	diameter241x349 mm with Sunshield
Colour	RAL 9003 (Signal white)

ORDERING INFORMATION	
PD980	8MP intelligent IP outdoor PTZ camera 31x zoom, IR, Wiper
WM12	Wall mount for PD110x and PD9x0 PTZ dome series
WM12B	Wall mount incl. junction box for PD110x and PD9x0 series
WM16	Gooseneck bracket for PD110x and PD9x0 PTZ dome series
WM17	Corner mount for PD110x and PD9x0 PTZ dome series
WM17B	Corner mount incl. junction box for PD110x and PD9x0 series
PM06	Pole mount for PD110x, PD1022, PD9x0 PTZ dome series
PM07	Pole mount for PD110x and PD9x0 PTZ dome series
PM07B	Pole mount incl. junction box for PD110x and PD9x0 series
PM08	Parapet wall mount for PD110x and PD9x0 PTZ dome series
PTM02	Bracket adapter for PD9x0 series
CM11	Ceiling mount for PD110x and PD9x0 PTZ dome series
CM12	Ceiling mount for PD110x and PD9x0 PTZ dome series, 50 cm
CM15	Ceiling mount for PD110x and PD9x0 PTZ dome series, 25 cm