

PNP324-IR-32X 4 MP 32× IR Network Speed Dome

AcuSense









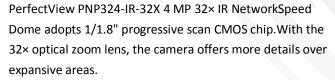












This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

Empowered by deep learning algorithms, AcuSense

technology brings human and vehicle targets classification alarms to front and back-end devices. The system focuses on human and vehicle targets, vastly improving alarmefficiency and effectiveness.



- 1/1.8" progressive scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Audio visual alarm: The white flashing light and audible warning can be triggered by certain events
- 32× optical zoom and 16× digital zoom provide close up views over expansive areas
- Expansive night view with up to 200 m IR distance
- Focuses on human and vehicle targets classification based on deep learning
- Face capture: Up to 5 faces captured at the same time

- DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2046.9 m (6715.5 ft)	812.3 m (2665.0 ft)	409.4 m (1343.2 ft)	204.7 m (671.6 ft)

Specification

Camera		
Max. Resolution	2560 × 1440	
Image Sensor	1/1.8" progressive scan CMOS	
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux@(F1.5, AGC ON), 0 Lux with IR	
Shutter Speed	1/1 s to 1/30000 s	
Slow Shutter	Yes	
Day & Night	IR cut filter	
Zoom	32x optical, 16x digital	
Lens		
Focal Length	5.9 mm to 188.8 mm	
Zoom Speed	Approx. 4.8 s	
	Horizontal field of view: 50.8° to 2.6° (wide-tele),	
FOV	Vertical field of view: 29.4° to 1.5° (wide-tele),	
	Diagonal field of view:57.4° to 3° (wide-tele)	
Aperture	Max. F1.5	
Focus	Auto, semi-auto, manual, rapid focus	
Illuminator		
Supplement Light Type	IR	
Supplement Light Range	IR Distance: up to 200 m	
PTZ		
Movement Range (Pan)	360°	
Movement Range (Tilt)	-15° to 90° (auto flip)	
Pan Speed	Pan speed: configurable from 0.1° to 160°/s; preset speed: 240°/s	
Tilt Speed	Tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s	
Proportional Pan	Yes	
Presets	300	
Patrol Scan	8 patrols, up to 32 presets for each patrol	
Pattern Scan	4 pattern scans	
Power-off Memory	Yes	
Park Action	Preset, pattern scan, auto scan, tilt scan, random scan, frame scan, panorama scan	
3D Positioning	Yes	
PTZ Status Display	Yes	
Preset Freezing	Yes	
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	

50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720);
60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288);
60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288);
60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Main stream: H.265+/H.265/H.264+/H.264
Sub-stream: H.265/H.264/MJPEG
Third stream: H.265/H.264/MJPEG
32 kbps to 16384 kbps
Baseline Profile/Main Profile/High Profile
Main Profile
H.264 and H.265 encoding
8 fixed regions for each stream
G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC, PCM
64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32-192 Kbps (MP2L2)/16-64 Kbps
(AAC)
8 kHz/16 kHz/32 kHz/48 kHz
Yes
NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK,
ISUP
Up to 20 channels
Up to 32 users, 3 user levels: administrator, operator, and user
Password protection, complicated password, HTTPS encryption, 802.1X authentication
(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings,
security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)
Guarding Vision
IE11, Chrome 57+, Firefox 52+, Safari 11+
Day, Night, Auto, Schedule
BLC, HLC, 3D DNR
120 dB
Digital defog
EIS
Yes
Yes
Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser

Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
SNR	> 52 dB
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Alarm	2 inputs, 1 output
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 k Ω ± 10%; 1 output (line out), line level, output impedance: 600 Ω
Reset	Yes
Built-in Speaker	1 built-in speaker with effective distance reaching max. 30 meters
Event	
Basic Event	Motion detection, video tampering alarm, exception, alarm input and output
	Line crossing detection, intrusion detection, region entrance detection, region ex
Smart Event	detection, unattended baggage detection, object removal detection, audio except detection
Smart Tracking	Manual tracking, auto-tracking
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger a
Alarm Linkage	output, trigger recording, audible warning, white light flashing, and PTZ actions (s
	as preset, patrol scan, pattern scan)
Deep Learning Function	
	Detects up to 5 faces simultaneously.
Face Capture	Supports detecting, capturing, grading, selecting of face in motion, and output th face picture of the face
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	24 VAC, max. 42 W (including max. 18 W for IR and max. 10 W for heater); Hi-PoE
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 90% or less (non-condensing)
Demist	Yes
Material	ADC12
Dimension	Ø 220 mm × 363.3 mm (Ø 8.66" × 13.91")
Weight	Approx. 5 kg (11.03 lb.)
Approval	
Protection	IP66 (IEC 60529-2013), IK10 (excluding glass window), TVS 6000V lightning protection surge protection and voltage transient protection
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: +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2019);

	UL (UL 62368-1);		
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);		
Safety	CE-LVD (EN 62368-1:2014+A11:2017);		
	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);		
	LOA (SANS IEC60950-1)		
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU);		
Environment	Reach (Regulation (EC) No 1907/2006)		

Available Model

■ PNP324-IR-32X

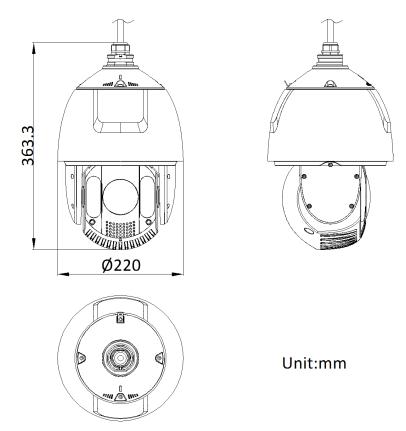
Typical Application

PerfectView products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description		
Top-level protection	PerfectView products at this level are equipped for use in areas where professional		
	anti-corrosion protection is a must. Typical application scenarios include coastlines, docks,		
	chemical plants, andmore.		
Moderate protection	PerfectView products at this level are equipped for use in areas with moderate anti-corrosion		
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away		
	from coastlines, as well as areas affected by acid rain.		
No specific protection	PerfectView products at this level are equipped for use in areas where no specific		
	anti-corrosion protection is needed.		

Dimension



- Accessory
- Included



Optional

P-619ZJ	P- 662ZJ	P-660ZJ	P-661ZJ	P-673ZJ
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P-604ZJ-BOX- CORNER	P-604ZJ-box	P-604ZJ-BOX- POLE	P-681ZJ	P-682ZJ
	17-77-79°	1.1.1		
P-667ZJ	P-663ZJ	P-604ZJ		

^{*}P-673ZJ should be used with P-661ZJ or P-602ZJ.