

PNP312-IR 2MP 20X Network IR PTZ Dome Camera



PNP312-IR PTZ Dome Cameras are embedded with 1/2.8" progressive scan CMOS chip, which makes DWDR and 2MP real-time resolution possible. With the 20X optical zoom Day/Night lens, the camera offers more details over expansive areas.

PNP312-IR PTZ Dome Cameras also features a wide range of functions, including intrusion detection, line crossing detection, and audio exception, benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs.



Key Features

- 1/2.8" Progressive Scan CMOS
- 1920 x 1080
- 20X Optical Zoom
- DWDR
- 3D intelligent positioning function
- Support cloud P2P
- Up to 150m IR distance
- Hi-PoE / 24VAC power supply

Function Description

Basic function

- High performance CMOS, up to 1920 x 1080 @30fpsresolution.
- Support 960p@60fps, 720p@60fps
- $\pm 0.1^{\circ}$ Preset Accuracy.
- ONVIF(Open Network Video Interface Forum), CGI(Common Gateway Interface), PSIA(Physical Security Interoperability Alliance), to ensure greater interoperability between different platforms and compatibility.
- 3D intelligent positioning function.
- 3D DNR.
- IP66 standard
- 2 alarm inputs and 1 alarm outputs, alarm linkage support preset, patrol, pattern, recording, relay output, upload center, etc...
- 1 audio input and 1 audio output.

Smart Function

- Smart image processing: support defog, HLC/BLC.
- Smart codec: low bit rate, ROI.
- Smart detection: support intrusion detection, line crossing detection, audio exception detection.

Camera function

- Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch.
- Min. Illumination: Color: 0.05Lux @ (F1.6, AGC ON), B/W: 0.01Lux @ (F1.6, AGC ON), 0 lux with IR.
- Support 8 privacy masks.

PTZ functions

- 360° endless pan range and -15°-90° tilt range
- 240°/s Pan Preset Speed and 200°/s Tilt Preset Speed
- 0.1°-160°/s Manual Pan Speed and 0.1°-120°/s Manual Tilt Speed
- 300 presets programmable; preset image freezing capability
- 8 patrols, up to 32 presets per patrol Park action.
- Power-off memory: restore PTZ & Lens status after reboot.

Network function

- H.264/MJPEG video compression.
- H.264 encoding with Baseline/Main/High profile.
- ROI(Region of Interest) encoding.
- Built-in Web server.
- Onboard storage, up to 128GB.
- Support up to 8 NAS storage; Edge recording (transmit the videos from SD card to the NAS after network resumed).
- HTTPS encryption and IEEE 802.1X port-based network access control.
- Support three streams.
- Multiple network protocols supported: IPv4/Ipv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE.

Specifications

Model	PNP312-IR	
Camera Module		
Image Sensor	1/2.8" Progressive Scan CMOS	
Min. Illumination	F1.6, AGC On: Color: 0.05 lux, B/W: 0.01lux, 0 lux with IR	
Max. Image Resolution	1920 x 1080	
Focal Length	4.3-94.0mm, 20x	
Digital Zoom	16X	
Zoom Speed	Approx.3s(Optical Wide~Tele)	
Angle of View	61.4-2.9 degree (Wide~Tele)	
Min. Working Distance	10~1,000mm(Wide~Tele)	
Aperture Range	F1.6-F3.5	
Focus Mode	Auto / Semiautomatic / Manual	
DWDR	Support	
Shutter Time	1-1/10,000s	
AGC	Auto / Manual	
White Balance	Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp	
Day & Night	IR Cut Filter	
Privacy Mask	8 privacy masks programmable	
Enhancement	3D DNR, Defog, HLC/BLC	
Pan and Tilt		
Range	Pan:360° endless; Tilt: -15°~90°(Auto Flip)	
Speed	Pan Manual Speed: 0.1°~160°/s, Pan Preset Speed: 240°/s Tilt Manual Speed: 0.1°~120°/s, Tilt Preset Speed: 200°/s	
Number of Preset	300	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 pattern scans, record time over 10 minutes for each scan	
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan	
Scheduled Task	Auto scan / Frame scan / Random scan / Patrol / Pattern / Preset / Panorama scan / Tilt scan / Dome reboot / Dome adjust / Aux output	
Features		
Detection	Intrusion detection, Line crossing detection, Audio exception detection, Motion detection	
ROI encoding	Support	
Infrared		
IR Distance	Up to 150m	
IR Intensity	Automatically adjusted, depending on the zoom ratio	

Alarm		
Alarm I/O	2/1	
Alarm Trigger	Tampering alarm, Network disconnect, IP address conflict, Storage exception	
Alarm Action	Preset, Patrol, Pattern, Recording, Relay output, Upload center, Upload FTP, Email linkage	
Input/Output		
Audio Input	1 Mic in/Line in interface, line input: 2-2.4V[p-p]; output impedance: $1K\Omega$, $\pm 10\%$	
Audio Output	1 Audio output interface, line level, impedance: 600Ω	
Network		
Ethernet	10Base-T / 100Base-TX, RJ45 connector	
Stream	Support three streams	
Main Stream	50Hz:25fps (1920×1080,1280×960,1280×720), 50fps (1280×960,1280×720);	
	60Hz: 30fps(1920×1080,1280×960,1280×720), 60fps (1280×960,1280×720)	
Sub Stream	50Hz:25fps(704×576,640×480,352×288);60Hz:30fps(704×480,640×480,352×240)	
Three Stream	50Hz:25fps (1920×1080,1280×960,1280×720,704×576,640×480,352×288);	
	60Hz: 30fps(1920×1080,1280×960,1280×720,704×480,640×480,352×240)	
Image Compression	H.264/MJPEG	
Audio Compression	G.711ulaw/G.711alaw/G.726/MP2L2/G.722	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP,	
	TCP, UDP, IGMP, ICMP, DHCP, PPPoE	
Simultaneous Live View	Up to 20 users	
Mini SD Memory Card	Support up to 128GB Micro SD/SDHC/SDXC card. Support Edge recording	
User/Host Level	Up to 32 users,3 Levels: Administrator, Operator and User	
Security Measures	User authentication (ID and PW); Host authentication (MAC address); IP address filtering	
System Integration		
Application	Open-ended API, support ONVIF, PSIA and CG , Support cloud P2P	
programming		
Web Browser	IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +	
Power	High-PoE&24 VAC, Max.40W	
Working Temperature	-30°C ~ 65°C (-22°F ~ 149°F)	
Humidity	90% or less	
Protection Level	IP66, TVS 4,000V lightning protection, surge protection and voltage transient protection	
Certification	FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC /EN60950-1	
Dimensions	Ф220×353.4mm (Ф8.66"×13.91")	
Weight (approx.)	4.5kg(9.92lbs)	

Order Models

• PNP312-IR, Hi-PoE, 24VAC, Outdoor

Dimensions

