InVid Tech
Innovative Video Technology
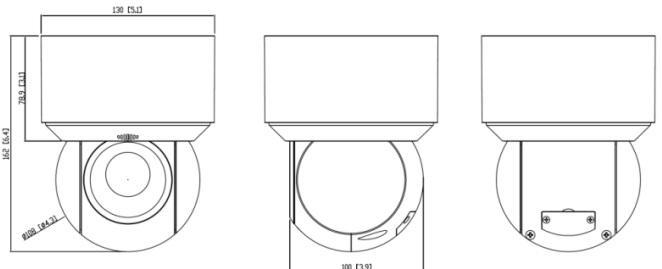
PAR-P4PTZXIR2812NH-AIWL

4 Megapixel IP Plug & Play, Outdoor PTZ, 2.8-12mm Motorized Auto-Focus, Up to 164' IR Range, Flashing White Deterrent Light and/or Siren, WDR, Built-in Mic + Speaker, SD Card Slot, 12VDC/PoE+

Features

- True AI Human and Vehicle Classification for Line Crossing and Intrusion Detection
- Flashing White Deterrent Light and/or Siren: Ai Triggered
- 4 Megapixel Resolution
- Motorized Auto-Focus 2.8-12mm Lens
- True Day/Night with IR Range up to 164'
- Smart IRs
- H.265+, H.265, H.264+, H.264, MJPEG
- 30 FPS Recording and Live
- True WDR 120dB

- Micro SD Slot: Up to 256GB
- Audio Input: Built-in Mic
- Audio Output: Built-in Speaker
- 12VDC/PoE++ Operation
- ONVIF
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS)
- Free MAC Client
- NDAA Compliant

Camera Module	
Image sensor	1/2.7" progressive scan CMOS with BSI and NIR+ technology
Mini. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON); B/W: 0.002Lux @(F1.6, AGC ON);0Lux with IR
Image setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, and AWB adjusted by client
Shutter Speed	50Hz: 1/25s~1/25,000s, 60Hz: 1/30s~1/30,000s
White Balance	Auto/Manual/Indoor/Outdoor
Gain	Auto/Manual
Day & Night	Auto/Manual
Aperture control	N/A
S/N Ratio	≥52dB
3D DNR	Auto/Manual
AE Enhancement	BLC, HLC, WDR
Privacy Mask	4 Programmable privacy masks, up to 8 per request
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits BMP format
Font overlay	Max 15characters per line, 8lines max, white color or red color
Lens	
Focus length	f=2.8-12mm lens,4x optical
Zoom Speed	About 1.6second(Wide->tele)
Field of View	Horizontal: 97° to 31°±5%;Vertical: 51° to 18°±5%; Diagonal: 115° to 36°±5% (wide-tele)
Working distance	wide: 0.3m ~ INF; tele: 0.5m ~ INF
Aperture Range	F1.6~ F2.7 (wide-tele)
IRCut filter	Electrical switchable ICR

DORI table	Lens	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)
	2.8mm	223 ft (68m)	88.9 ft (27.1m)	44.6 ft (13.6m)	22.3 ft (6.8m)
	12mm	678.1 ft (206.7m)	269 ft (82m)	135.5 ft (41.3m)	68 ft (20.7m)

PTZ	
Pan Range	0~355°
Pan speed	Configurable, from 0.1~80°/s; Preset speed: 80°/s
Tilt Range	From -5° to 90°
Tilt Speed	Configurable, from 0.1°~ 60°/s, Preset speed: 60°/s
Pan/Tilt action	
intervals	At least 10seconds, adjustable
Proportional Zoom	Yes
Preset	300
Cruise	8 cruises, up to 16 presets for each cruises
Trace	4 traces, record time over 3 minutes for each trace
Power off memory	Support
Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
3D Positioning	Support
PTZ Position Display	Support
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
Supplement Light	
IR Distance	Up to 164 ft (50m),4pcs of IR Array into 2 Groups, auto switch with zoom ratio
Smart IR	Yes
White light Distance	Up to 98ft , 2pcs of White LED Array (Deterrent Only)
White light Mode	Flash mode(2x brightness), time interval adjustable; Constant Mode (On AI Events)
Network	
Max Resolution	2560×1440
Main stream	25fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720); 30fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720)
Sub stream	25fps (704 × 576, 640 × 480, 352 × 288); 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288) ; 30fps (1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video compression	Smart H.265+/H.265/H.264+/H.264/MJPEG
H.264 Encoder	H.264/AVC codec BP/MP/HP, level 5.1
H.265 Encoder	H.265/HEVC codec MP, level 5.0
Video bit rate	64Kbps ~ 16Mbps

Audio Compression	G.711 A/U
Audio bit rate	64Kbps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP,DHCP, PPPoE
User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
Smart Features	
Basic event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error)
Face recognize	Support human face detection, max 15 human faces per scene. Support face capture, tracking, comparison, edge storage
Road traffic	Vehicle detecting and tracking, etc.
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection,etc. (Human and Vehicle Classification)
Smart Tracking	Smart tracking of human or vehicle, auto/manual
Active Deterrence	Flash strong white light and predefined voice upon invaders detected. Support 10 more different predefined voice clips
Dual way talk	Alarm Deterrent + Two Way Audio
System Integration	
Ext. Audio Interface	1-ch audio input(mic in),2.0-2.4Vp-p,1kΩ±10%;1-ch audio output(line out),line level, impendance:600 Ω;
Built-in Speaker	Yes
Built-in Speaker Info	Power/output: 1W, dB: ≥90dB, Frequency: 100-4KHz
Built-in MIC	1channel, rotation with camera lens direction, up to 15 ft distance voice recordable.
Audio device switch	Default use built-in speaker and MIC, manually switch to external
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email,etc
Network Interface	1 RJ45 10M/100M Adaptive Ethernet (Support PoE+)
Storage Slot	Standalone ext. memory card chamber, support microSD/TF card, up to 256GB
Serial interface	N/A (RS485/232)
Auxiliary video out	N/A(BNC/CVBS/TVI)
Reset button	Yes
Heat and Fan	Built-in temperature sensor, auto shut down at over- temperature; auto heat at cold start. No built-in fan.
Water removal	Dust and Water-resistant coating for lens cover
API	ONVIF, support SDK and third-party management platform
Client	Paramont NVR, Paramont CMS; free iOS and Android App
Web Browser	IE8-11
App version	Default:5.0.1. Update to 5.1.1 per request
Audio Sensitivity	-36db
General	
Languages	Czech; English, German; Hungarian ; Italian ; Japanese ; Korean ; Portuguese, Polish;Russian, Romanian, Spanish; Spanish(Mexico);Simplified Chinese; Turkish; Traditional Chinese. etc.
Power	DC12V±20%,3000mA,PoE+ (802.3.at), AVG. 4.5Watt, Max 16.2Watt at day; 20.2Watt at night (LED on, Speaker on + PT Rotation)
Working condition	-40°F ~ 158°F (-40°C ~ 70°C) IR off, -40°F ~ 140°F (-40°C ~ 60°C) IR on; Cold start≥- 25°C(1Hour waiting), ≤90%RH
Storage condition	-40°F ~ 158°F (-40°C ~ 70°C) ; ≤ 95% RH
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Shield Material	Main body: Aluminum Alloy(ADC12),Decoration: Polymer(Glass fiber and Plastic)
Dimensions	5.1 x 6.4' (130 x 162 mm)
Net Weight	Approx. 2.65lb (1.2Kg)
Certification	IP66,IK10 (include lens window), ROHS,CE,FC,3C

Ordering Information
PAR-P4PTZXIR2812NH-AIWL: 4 Megapixel PTZ, 2.8-12mm Motorized A/F
PAR-P4PTZXIR2812BNH-AIWL: 4 Megapixel PTZ, 2.8-12mm Motorized A/F (Black Housing)

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