



## PAR-P12BIRA2812NH-AI

12 Megapixel IP Plug & Play, Outdoor Bullet, Motorized Auto-Focus,  
Up to 229' IR Range, Audio Input: Built-in Mic, SD Card Slot, 12VDC/PoE

### Features

- True AI Human and Vehicle Classification for Line Crossing and Intrusion Detection
- Supports Native Chrome/Edge Use
- 12 Megapixel Resolution
- Motorized Auto-Focus 2.8-12mm Lens
- True P2P Connectivity with QR Code Connect
- True Day/Night with IR Range up to 229'
- H.265+, H.265, H.264+, H.264, MJPEG Compression
- 30 FPS Recording and Live
- D-WDR
- Micro SD Slot for Local Storage, up to 512 GB
- Audio Input: Built-in Mic
- IP67 Weatherproof
- 12VDC/PoE Operation
- ONVIF
- Supports Native Chrome/EDGE Use
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) for PC/MAC
- NDAA Compliant

Camera	
Image Sensor	1 / 1.7" CMOS
Image Size	4000 x 3000
Electronic Shutter	1 / 3 s ~ 1 / 100000 s
Iris Type	DC Iris
Min. Illumination	Color: 0.006 lux@F1.4, AGC ON; B&W: 0 lux with IR
Lens	2.8~12mm@F1.4, H.FoV: 96°~46°; V.FoV: 70°~35°; D.FoV: 128°~58°
Focus	Motorized
Lens Mount	Φ14
Day & Night	ICR
Wide Dynamic Range	D-WDR
BLC	Yes
HLC	Yes
Defog	Yes
S/N Ratio	≥50dB
Digital NR	3D DNR
Angle Adjustment	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°
Image	
Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264 Sub/Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG Fourth/Fifth stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.264 Compression Standard	Baseline Profile/Main Profile/High Profile
Resolution	12MP (4000×3000), 8MP (3840×2160), 6MP (3200×1800), 4MP (2688×1520), 1080P(1920×1080), 720P (1280×720), D1, VGA (640×480), 640×360, CIF, 480×240

### Ordering Information

**PAR-P12BIRA2812NH-AI:** 12 Megapixel Bullet, 2.8-12mm

Main Stream	12MP/8MP/6MP/4MP/1080P( 60Hz : 1~ 30fps; 50Hz: 1~25fps )		
Sub Stream	1080P/720P/D1 ( 60Hz : 1~ 30fps; 50Hz: 1~25fps )		
Third Stream	720P/D1/VGA/640×360/CIF/480×240 ( 60Hz : 1~ 30fps; 50Hz: 1~25fps )		
Fourth Stream	D1/VGA/640×360/CIF/480×240 ( 60Hz : 1~ 30fps; 50Hz: 1~25fps )		
Fifth Stream	D1/VGA/640×360/CIF/480×240 ( 60Hz : 1~ 30fps; 50Hz: 1~25fps )		
Bit Rate	64 Kbps ~16Mbps		
Bit Rate Type	VBR / CBR		
Audio Compression	G711A / U		
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, NR, etc. adjustable through client software or web browser		
ROI	Each ROI to be configured separately		
Interfaces			
Network	RJ 45 10M/100M self-adaptive Ethernet port		
Video Output	CVBS output (BNC × 1)		
Audio	1CH audio input; 1CH audio output; 1 CH built-in MIC		
Storage	Built-in micro SD card slot; up to 512GB		
Reset	Yes		
Alarm	1CH alarm input; 1CH alarm output		
Intelligent Analytics			
Smart Event	Line crossing, region intrusion/entrance/exiting (human/vehicle classification) loitering detection, illegal parking detection, abandoned/ missing object detection		
Statistics	Target counting by line/area, heat map		
Exception Detection	Scene change, video blur and abnormal color detection, audio exception		
Face Detection	Face detection and face capture		
Video Metadata	Simultaneously captures human body, motor vehicle and non-motor vehicle and extracts 13 human features, 4 motor vehicle features and 1 non-motor vehicle feature		
DORI Distance			
Lens	Detect (ft)	Observe (ft)	Recognize (ft) Identify (ft)
2.8~12mm(W)	187 (86m)	93 (34m)	63 (17m) 48 (9m)
2.8~12mm(T)	374 (190m)	169 (76m)	100 (38m) 66 (19m)
Functions			
Remote Monitoring	IE browser/ Paramont NVR / Paramont CMS AI / Paramont CMS APP		
Web Browser	Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+		
Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission		
Network Protocol	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPS, P2P, QoS		
Interface Protocol	ONVIF (Profile S/T/M)		
Storage	Network remote storage; micro SD card storage		
Smart Alarm	Motion detection, SMD, SD card error, SD card full, IP address conflict, network disconnection, audio alarm		
General Function	Watermark, video mask, heartbeat, image distortion correction, corridor pattern, ANR, cloud upgrade		
Security	Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/RTSP		
PoE	Yes , IEEE802.3af		
IR Distance	229'		
Ingress Protection	IP 67		
Others			
Power Supply	DC12V/PoE		
Power Consumption	< 12W		
Storage Conditions	-22°F ~ 149°F (- 30 °C ~ 65°C), Humidity: less than 95 % (non-condensing)		
Operating Conditions	-22°F ~ 140°F (- 30 °C ~ 60 °C), Humidity: less than 95 % (non-condensing)		
Dimensions	11 x 3.9 x 3.5in (278.3 × 100.2 × 88.7 )		
Weight ( net )	Approx. 2.3 lbs (1.04KG)		
Installation	Ceiling mounting; Wall mounting		
Certificate	CE, FCC		
Environmental Protection	Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)		

