



## PAR-P4BIRA2812NH-AIWL

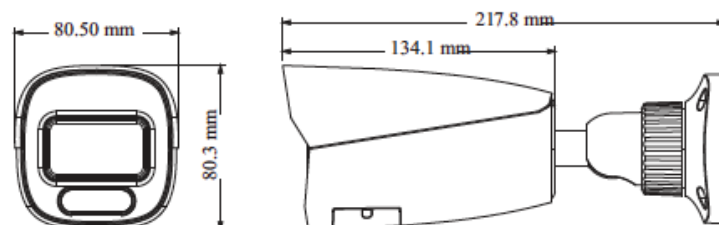
4 Megapixel IP Plug & Play, Outdoor Bullet, 2.8-12mm Motorized Auto-Focus Lens, IR Range up to 131', White Light up to 98', WDR, Red/Blue Flashing Deterrent Light and/or Siren, Built-in Mic/Speaker, SD Card Slot, 12VDC/PoE

### Features

- True AI Human and Vehicle Classification for Line Crossing and Intrusion Detection
- Red/Blue Flashing Deterrent Light and/or Siren: Ai Triggered
- White Light for Color at Night: Ai Triggered
- True P2P Connectivity with QR Code Connect NAT 1.0
- 4 Megapixel Resolution
- 2.8-12mm Motorized Auto-Focus Lens
- True Day/Night with IR Range up to 131'
- White Light up to 98'
- H.265+, H.265, H.264, MJPEG Compression
- 30 FPS Recording and Live
- True WDR 120dB
- Micro SD Slot: Up to 256GB
- Audio Input: Built-in Mic
- Audio Output: Built-in Speaker
- IP66 Weatherproof
- 12VDC/PoE Operation
- ONVIF
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) for PC/MAC
- NDAA Compliant

| Camera             |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| Image Sensor       | 1 / 3" CMOS                                                                                               |
| Image Size         | 2592 × 1520                                                                                               |
| Electronic Shutter | 1 / 3s ~ 1 / 100000 s                                                                                     |
| Iris Type          | DC Iris                                                                                                   |
| Min. Illumination  | 0.03lux@F1.6, AGC ON; 0 lux with LED                                                                      |
| Lens               |                                                                                                           |
| Focus              | Motorized                                                                                                 |
| Lens Mount         | Φ14                                                                                                       |
| Wide Dynamic Range | 120dB                                                                                                     |
| BLC                | Yes                                                                                                       |
| HLC                | Yes                                                                                                       |
| Defog              | Yes                                                                                                       |
| Digital NR         | 2D/3D DNR                                                                                                 |
| S/N Ratio          | ≥50dB                                                                                                     |
| Angle Adjustment   | Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°                                                             |
| Image              |                                                                                                           |
| Video Compression  | Main stream: H.265+ / H.265 / H.264+ / H.264<br>Sub/Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG |

|                            |                                                                                                                                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|---------------|---------------|---------------|-------------|---------------|--------------|--------------|----------|-------------|---------------|--------------|---------------|--------------|
| H.264 Compression Standard | Baseline Profile/Main Profile/High Profile                                                                                                                                                                                                                                                                                                                |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Resolution                 | 4MP(2592×1520),2K(2560×1440),3MP(2304×1296),1080P (1920×1080),720P(1280×720),D1,VGA(640×480),CIF, 480×240                                                                                                                                                                                                                                                 |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Main Stream                | 4MP/2K/3MP/1080P ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps )<br>HFR mode: 1080P/720P ( 60Hz : 1 ~ 60fps; 50Hz: 1~50fps )                                                                                                                                                                                                                                          |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Sub Stream                 | 720P/D1/VGA/CIF ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps )                                                                                                                                                                                                                                                                                                       |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Third Stream               | D1/VGA/CIF/480×240 ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps )                                                                                                                                                                                                                                                                                                    |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Bit Rate                   | 64 Kbps ~ 8 Mbps                                                                                                                                                                                                                                                                                                                                          |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Bit Rate Type              | VBR / CBR                                                                                                                                                                                                                                                                                                                                                 |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Audio Compression          | G711A / U                                                                                                                                                                                                                                                                                                                                                 |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Image Settings             | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, ImageFlip, Image Mirror, 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               | No                                                                                                                                                                                                                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Audio                      | 1CH audio input; 1CH audio output; 1CH built-in speaker; 1CH built-in microphone                                                                                                                                                                                                                                                                          |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Alarm                      | 1CH alarm input; 1CH alarm output                                                                                                                                                                                                                                                                                                                         |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Storage                    | Built-in micro SD card slot; up to 256GB                                                                                                                                                                                                                                                                                                                  |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Reset                      | Yes                                                                                                                                                                                                                                                                                                                                                       |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Audio Sensitivity          | -36db                                                                                                                                                                                                                                                                                                                                                     |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Built-in Speaker           | Yes                                                                                                                                                                                                                                                                                                                                                       |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Built-in Speaker Info      | Power/output: 1W<br>dB: ≥90dB<br>Frequency: 100-4KHz                                                                                                                                                                                                                                                                                                      |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Functions                  |                                                                                                                                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Remote Monitoring          | Web Client/NVR/Paramont CMS/Mobile APP                                                                                                                                                                                                                                                                                                                    |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Web Browser                | IE11(plugin-in required)/Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+                                                                                                                                                                                                                                                                               |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Online Connection          | Support simultaneous monitoring for up to 10 users;<br>Support multi-stream real time transmission                                                                                                                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Network Protocol           | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, RTMP, HTTP, 802.1x, UPnP, HTTPS, QoS                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Interface Protocol         | ONVIF Profile T                                                                                                                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Storage                    | Network remote storage; micro SD card storage                                                                                                                                                                                                                                                                                                             |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Smart Alarm                | Motion detection, sensor alarm, SD card error, SD card full, IP address conflict, Cable connection                                                                                                                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| General Function           | Watermark, IP address filtering, video mask, heartbeat, password protection, image distortion correction                                                                                                                                                                                                                                                  |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Security                   | Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/HTTPS                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| PoE                        | Yes , IEEE802.3af                                                                                                                                                                                                                                                                                                                                         |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Supplement light Range     | IR range: 131' White light range: 98'                                                                                                                                                                                                                                                                                                                     |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Light Modes                | IR / White Light / Supplement Light                                                                                                                                                                                                                                                                                                                       |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Protection Grade           | IP66                                                                                                                                                                                                                                                                                                                                                      |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Intelligent Analytics      |                                                                                                                                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Video Abnormality          | Scene change detection, video blur detection, video cast detection                                                                                                                                                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Perimeter Detection        | Line crossing detection (human/vehicle classification); Region intrusion/entrance/exiting detection (human/vehicle classification)                                                                                                                                                                                                                        |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Sound&Light Warning        | Yes, Red + Blue Alarm Light                                                                                                                                                                                                                                                                                                                               |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Other Events               | Face detection and face capture, abandoned/missing object detection;heat map; target counting, crowd density detection                                                                                                                                                                                                                                    |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| DORI Distance              | <table><tr><td>Lens</td><td>Detect(ft)</td><td>Observe(ft)</td><td>Recognize(ft)</td><td>Identify (ft)</td></tr><tr><td>2.8~12mm(W)</td><td>197.1(60.1 m)</td><td>78.8(24.03m)</td><td>39.4(12.01m)</td><td>19.7(6m)</td></tr><tr><td>2.8~12mm(T)</td><td>576.5(175.7m)</td><td>230.6(70.3m)</td><td>115.3(35.14m)</td><td>57.6 (17.6m)</td></tr></table> | Lens         | Detect(ft)    | Observe(ft)   | Recognize(ft) | Identify (ft) | 2.8~12mm(W) | 197.1(60.1 m) | 78.8(24.03m) | 39.4(12.01m) | 19.7(6m) | 2.8~12mm(T) | 576.5(175.7m) | 230.6(70.3m) | 115.3(35.14m) | 57.6 (17.6m) |
| Lens                       | Detect(ft)                                                                                                                                                                                                                                                                                                                                                | Observe(ft)  | Recognize(ft) | Identify (ft) |               |               |             |               |              |              |          |             |               |              |               |              |
| 2.8~12mm(W)                | 197.1(60.1 m)                                                                                                                                                                                                                                                                                                                                             | 78.8(24.03m) | 39.4(12.01m)  | 19.7(6m)      |               |               |             |               |              |              |          |             |               |              |               |              |
| 2.8~12mm(T)                | 576.5(175.7m)                                                                                                                                                                                                                                                                                                                                             | 230.6(70.3m) | 115.3(35.14m) | 57.6 (17.6m)  |               |               |             |               |              |              |          |             |               |              |               |              |
| 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                 | 8.6 x 3.2 x 3.2 in (217.7 × 80.5 × 80.3mm)                                                                                                                                                                                                                                                                                                                |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Weight ( net )             | Approx. 1.5 lb (0.68KG)                                                                                                                                                                                                                                                                                                                                   |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Installation               | Ceiling mounting; wall mounting                                                                                                                                                                                                                                                                                                                           |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Certificate                | CE, FCC                                                                                                                                                                                                                                                                                                                                                   |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |
| Environmental Protection   | Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)                                                                                                                                                                                                                                                             |              |               |               |               |               |             |               |              |              |          |             |               |              |               |              |



### Ordering Information

**PAR-P4BIRA2812NH-AIWL:** 4 Megapixel Bullet, 2.8-12mm Motorized A/F

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