

Harrier AI Camera

QRO's AI-powered all-in-one 5MP ANPR Camera System for End Users and Integrators.



QRO Solutions have launched a new, cost effective, all-in-one, super high-definition camera with an embedded high-performance AI processor. The camera is available as a complete ANPR solution with QRO's fully integrated ANPR application, and as an open AI platform for System Integrators to host their own video-based AI applications. With POE+ support, the Harrier AI can be rapidly deployed to cover multiple lanes of traffic using in-built over air or hardwired communications to deliver data to clients' existing back-office platforms.

Automatic Number Plate Recognition System

- Self-contained ANPR and data communication system.
- 5-megapixel P-Iris day/night motorised zoom lens (12-40mm).
- 6 x 850nm wavelength high-power LEDs.
- Capable of 4 lanes of simultaneous coverage.
- Vehicle detection algorithm to monitor vehicle capture rates.
- LTE/GPS/WLAN/LAN built in router.
- Externally accessible SIM card holder.
- 802.3at (POE+) powered.
- Built in UK police NASP testing tool.
- Simultaneous ANPR and High-Definition video streaming.
- Optional keep-alive battery pack for reporting of power outages.
- Wind/solar powered outstation available.

Integrators Application Platform

Complete AI application platform for system integrators.

- Linux OS (Ubuntu Linux 18.04/20.04).
- Optional Jetson Nano, Xavier, or Orin processor.
- NVidia JetPack SDK.
- M.2 SSD Solid State Disk up to 4TB.
- 100Base-TX ethernet.
- External USB 3.1 port.
- RS485 auxiliary interface with 12V power to support additional sensors.
- RS232 console port.

Applications

- National and local security and intelligence.
- Traffic safety/incident detection.
- Tolling.
- ULEZ.
- Traffic surveys.
- Journey Time analysis.
- Parking.
- Average speed.

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Specifications

Communications

Internal All-in-one Router LTE CAT4, HSPA/UMTS, EDGE/GPRS.
1 x 10/100M ethernet (LAN/WAN configurable).
1 x RS485.
IEEE 802.11 b/g/n 300 Mbps(2T2R) WLAN.
NMEA-0183 2.3V GPS with an accuracy of 2.5m.

Declaration of Conformity

UKCA, CE.

Dimensions

Main Body 234mm(L) x 113mm(W) x 72.5mm(H).
Hood 340mm(L) x 125 mm(W) x 81 mm(H).

Environmental

Ingress Rating IP67.
Operating Temperature Range -20 °C to +60 °C.
Humidity 0% to 98%.
Emissions EN 55022:2010 EMC.
Immunity EN 55024:2010 EMC.

Illumination

LEDs 6 x 850nm Wavelength High-Power.
Beamwidth 20°.

Imaging

Resolution 2472 x 2064.
Sensor Global Shutter Day/Night Sony Pregius S Colour.
Max FPS 20 @ 5MP.
Day/Night Switch Automatic switch based upon environment brightness and number plate contrast ratio.
Zoom Motorised zoom and focus (12 – 40mm).
ANPR Range Up to 40m with 4 standard lane coverage.

Material

Machined aluminium with black anodised finish.

Power

802.3at (POE+) 16W.

Processing

Main Processor Jetson Nano 8GB (ANPR) with optional Xavier (8GB/16GB) for Integrators.
Storage Up to 4 TB industrial M.2 SSD storage.

Software

Operating System Ubuntu Linux.
Nvidia SDK JetPack.
ANPR Protocols UTM, UK BOF2 (All back-office variants).

Weight

2.5kg (including hood and 3-axis mounting bracket).