



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 videobased 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

- ✓ ANPR and Data Communications
- ✓ 6 x 850nm wavelength high-power LEDs
- ✓ Capable of 4 lanes of simultaneous coverage
- ✓ Vehicle detection capability
- ✓ 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 HD Video streaming
- ✓ Battery Backup for power out alerts
- ✓ Wind/solar powered outstation available

Integrators Application Platform

- ✓ 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
- ✓ External RS485 and 12V power
- ✓ RS232 console port

Applications

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



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
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Declaration of Conformity

UKCA, CE

Dimensions

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

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
Sensor	JetPack
Max FPS	UTMC, UK BOF2 (All back-office variants)

Weight

2.5kg (including hood and 3-axis mounting brackets)