

EVO 8 ANPR Camera Models

Re-Deployable High Definition Intelligent ANPR Camera



The EVO 8 Type 4 is a new Intelligent ANPR camera unique to QRO, designed specifically for the police market. By utilising the latest HD technology it delivers a performance edge over competitive products. The EVO 8 incorporates comprehensive functionality enabling it to meet the highest aspirations for a re-deployable camera.

Utilising advances in camera technology, QRO's partnership with CA Traffic (manufacturer of the EVO 8) has resulted in a self contained High Definition (HD) intelligent camera which integrates with our Check-IT application software to deliver data directly to the majority of back office systems operated by the UK police.



Using the Secure Sockets Layer (SSL) and a cryptographic system of key generation we ensure authenticated and encrypted communications over LAN, Wi-Fi or 3G/GPRS communication infrastructures, which guarantees unsurpassed implementation of data security.

The Linux operating system has been incorporated to reduce the power requirements and improves the reliability of the Type 4 compared to Windows® based competitors. In addition to integrated communications hardware, GPS is also included for accurate time synchronisation and position location.

A 1280 x 964 progressive scan pixel monochrome sensor covers two full lanes for ANPR. A 1280 x 964 progressive scan colour sensor works in tandem with the monochrome sensor to provide an overview image. The camera uses intelligent vehicle detection to limit overview images to 640 x 480 pixels, ensuring NAAS compliance.

The EVO 8 has true two lane coverage in either direction at distances between 8 and 25 metres from the lens. The blind area between lanes produced by individual cameras is eliminated with the use of high definition technology. Lane demarcation is set and adjusted by positioning a lane marker, superimposed on the camera's IR image.

The EVO 8 Type 4 is already operational with a number of QRO police customers; consistently exceeding NAAS requirements. The camera comes with a dedicated software application for ease of configuration and setup, requiring minimal input from the user to enable rapid deployment on any available data infrastructure. The application is run on a desktop or laptop PC and accesses the Type 4 via a LAN or Wi-Fi connection. The camera incorporates a security mechanism to prevent its configuration being changed by non-accredited systems.

The EVO 8 can be procured through a framework contract available to all UK police forces and their partners. Further information can be obtained by contacting QRO.

At the heart of the data communications is the Check-IT application software used by over 20 UK police forces managing their ANPR assets. Features specific to this style of integration include:

- Secure UTMIC web service data input
- Remote vehicle "Hotlist" Matching
- Overview image requests on low bandwidth connections (GPRS)
- Data upload to Force BOF using Web Services
- Support of multiple intelligent camera inputs
- Support of multiple input protocols i.e. FTP, UTMIC, QRO XML, Web Services
- Used in over 20 police forces in the UK

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Evo 8 Enhanced IR HD Camera... true 24 hour useable overview images

Building on the success of the Evo 8 camera the new IR Enhanced version provides the ability for full 24 hour overview image capture capability, allowing the captured vehicle to be identified with a colour image during daylight conditions and a flood IR image at night. Current ANPR cameras only provide a colour overview, that, without external "white light" illumination, will provide an image at night which might contain two headlights and no discerning vehicle image. The camera is the same shape and footprint of the existing Evo 8 camera but utilises a new high powered illuminator that is capable of illuminating the front of the vehicles and not just the number plate.

The camera will provide the standard colour images during the day but incorporates a day/night sensor which monitors the change in light levels. When the light level drops below a pre-defined setting a mechanical IR filter will automatically switch in front of the colour sensor allowing the colour sensor to become a monochrome equivalent therefore enjoying better sensitivity in the IR wavelength.

Below are a selection of images taken from the conventional colour overview image at night and the new Evo 8 Enhanced IR version. It is now possible for a vehicle to be identified in an unlit environment at night, further enhancing the policing capabilities and vehicle intelligence gathering potential.

To further compliment the Evo 8 Enhanced IR camera there will be an option to add an additional illuminator which fits underneath the existing Evo 8 housing approximately the size of a small pair of binoculars that will allow even brighter images. This will be an optional upgrade to the Evo 8 Enhanced IR camera.

Summary Specifications

- Covers two (adjacent) traffic lanes and the white line area (6.3 metres horizontal field of view)
- GigE connection port
- Transmit ANPR reads via wired Ethernet and 3G/GPRS mode
- High definition sensors to capture both infra red and colour images at 1280 x 960 pixels resolution.
- NAAS compliant
- ANPR data stored on the camera and can be extracted at a later date if required via a secure USB memory stick.
- Captures accurately number plates travelling at speeds up to 120 miles per hour.
- Dimensions: 185mm high, 224mm wide and 250mm deep, including the sunshield
- Weight less than 5kg when mounted onto a pole including mounting brackets
- Operating temperature range (ambient) -20°C to +60°C
- Maximum power dissipation 20 Watts at 48 VDC
- Standard illumination wavelength 880 nm (other wavelengths available)



Conventional Colour Overview at night



Evo 8 Enhanced IR overview at night



Evo 8 Enhanced IR with optional additional illuminator images

