THE AIQ RANGE

# RECOGNITION OF MORE THAN JUST LICENCE PLATES


MAV

ANPR TECHNOLOGY FOR
**INTELLIGENT TRAFFIC SOLUTIONS**

NORTH LINE

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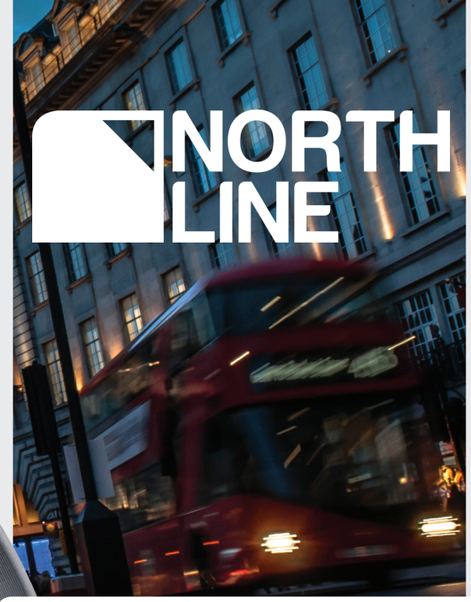






### Vehicle Pathway Tracking

With the added pathway tracking features the AiQ can enforce Moving Traffic Offences (MTOs) with a level of certainty demanded by independent audit and certification.

### Vehicle identification

With a wide range of additional features added to the AiQ, further data generation is underpinned by the ability to offer vehicle count, colour and classification.

### Global Plate Recognition

Colour recognition and embedded AI for typeface identification across multiple regions ensures the AiQ offers consistent accuracy of vehicle origin and additional metadata for system processing.

### Colour and IR Camera recognition

The AiQ offers plate capture in both colour and IR to offer 24 hour vehicle processing to the highest standards of accuracy in all weather conditions.

### Accuracy, reliability and performance

Dual camera capture with zero light detection and multi-frame automatic 'best match' identification offers the highest performance for consistent match reliability and offers capture of illegal, masked and 'ghost' plates.

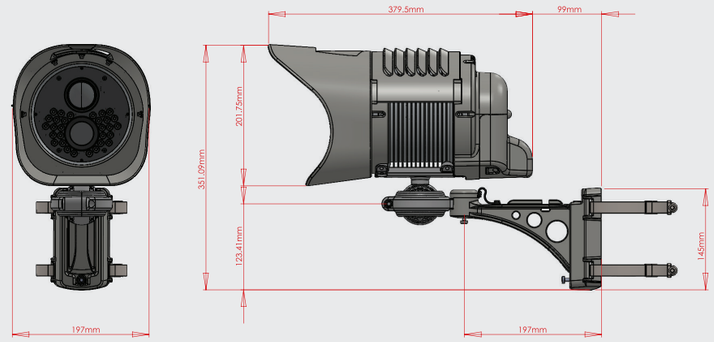
### Back Office

The AiQ has been developed to offer greater data generation to increase system performance and offer split-data transfer for increased efficiency.

**The AiQ represents a new phase for MAV ANPR cameras. Building on the proven IQ benchmark, the new AiQ offers an open platform computing environment for system integrators to optionally add local processing and applications alongside the worldwide recognition capabilities of the pre-installed ANPR platform.**

The AiQ offers two 1080p full HD camera modules per unit for colour and IR images, providing a superior combination that is proven to offer the best 24/7 capture. Using fully motorised zoom block lenses ensures flexible installation and maxIRange™ pulsed IR lighting provides up to 40m range for high-speed multi-lane capture.

Setting up the AiQ is simple through browser configuration and API interfaces. The native ANPR engine takes full advantage of raw camera sensor data for uncompressed resolution at pixel level. Quad core embedded processor with GPU support ensures real-time recognition at high speeds whilst including further power for additional system requirements.




Scan for all AiQ features

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# AiQ

HIGH SPEED, HIGH DEFINITION INTELLIGENT ANPR CAMERA

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## Designed for the Future

The AiQ represents a new phase for MAV ANPR cameras. Building on the proven IQ benchmark, the new AiQ offers an open platform computing environment for system integrators to optionally add local processing and applications alongside the worldwide recognition capabilities of the pre-installed ANPR platform.

### High Performance

Font independent OCR engine accredited with greater than 99% accuracy by third parties

### Global Multi-Country Support

More than 150 countries including Latin, Arabic and Thai alphabets; supports all plates from Gulf Cooperation Council simultaneously; recognition of all plates from the 50 US states

### Extreme Performance

Excellent performance in low light, shadow, over/ under exposed plates, damaged/ dirty plates, bad weather and extreme angles maintaining high accuracy reads

### Back-Office

Built-in connectivity to provide vehicle make, model, colour, and class analytics

### Expert to Third Parties

Integrated with Milestone, Genetec, Network Optix, ExacqVision and more

### Full API Support

Including generic HTTP XML/ JSON and TCP/IP output to ease third party integration

### Extra Analytics

Options include: ADR recognition and licence plate colour (multiple regions)

**Proven building blocks remain in the AiQ including two 1080p full HD camera modules per unit for colour and IR images. This combination is proven to offer best 24/7 capture. Using fully motorised zoom block lenses ensures flexible installation and maxIRange™ pulsed IR lighting provides up to 40m range for high speed multi-lane capture.**

Setting up the AiQ is simple through browser configuration and API interfaces. The native ANPR engine takes full advantage of raw camera sensor data for uncompressed resolution at pixel level. Quad core embedded processor with GPU support ensures real time recognition at high speeds with enough spare power for additional tasks.

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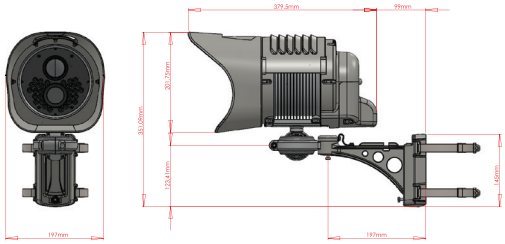
## Technical Data

| SPECIFICATIONS | |
|---|---|
| Recognition Range | Capture up to 7.5m width of traffic lanes from 5m to 40m range based on 850nm IR on EU retro-reflective plates |
| Sensor | ANPR and Overview: 1/1.8" 1920(H) x 1080(V) 16:9 global shutter, 30 fps |
| Motorised Lens | Auto/Manual Optical 12x / Digital 12x lens (DC Iris), IR Corrected<br>Iris F-value: F1.5(W)~1.9(T)<br>Focal Length: f=7.0mm~84mm - Angle of View Horizontal: 51.1 (W)~5.0 (T), Vertical 30.0 (W)~3.2 (T) |
| IR illumination | Pulsed LED array with lenses (850nm standard. White light, 740nm or 940nm optional) |
| Optical Filters | IR: Bandpass matched to LEDs<br>OV: Day/Night IR Cut Filter (auto/manual) |
| Camera Control | Integrated web server provides full camera and illuminator setup pages and live preview from any connected browser (no plug-ins required) |



| ANPR ENGINE FUNCTIONALITY | |
|---|---|
| ANPR Processor | Quad core embedded processor with GPU support |
| ANPR Software / Presets | ANPR license and settings upload via web-based configuration pages for simple remote management |
| Operating System | Linux based solution pre-installed with engine and capability to accept third-party applications for local processing and use by System Integrators for full ITS, Average Speed, Low Emission Zone and other enforcement solutions. |
| ANPR Features | Image cropping options for Overview image, advanced de-skew and yaw correction, character spacing validation, country of origin matching and direction of travel reporting |
| Vehicle Speed | Up to 250Km/h = 155mph (Figures based on gantry mount reading front European plates) |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Operating Voltage | PoE+ (803.2at type 2) or 10-15VDC suitable for battery power |
| Network Connections | 10/100 Base-T physical |
| Power Consumption | Nominally 20W |
| Dimensions | 155 x 155 x 145mm (cylindrical) excluding connectors, mount and sunshield |
| Weight | 2.5kg excluding mount and sunshield |
| Enclosure | IP68 hermetically sealed. Hard anodized aluminium with mount options |
| Temperature / Humidity | -40°C to 60°C operating with relative humidity 0% RH to 100% RH (hermetically sealed) |

| SERVICE | |
|---|---|
| Customer Service | Friendly, helpful service for product ordering and repair returns |
| Technical Support | Comprehensive pre and post-sale technical support for full life of the product |
| Warranty | 12 month warranty, extended warranties and factory repair/replacement programmes available |
| Long Term Supply | Complete support for the life of the product |
| Training | Comprehensive product training programmes for customers |

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