

High Speed, High- Definition  
Intelligent ANPR Camera

**MAV**  
AiQ Lite

# Designed for the Future

AiQ Lite represents a new phase for MAV ANPR cameras. Building on the proven AiQ benchmark, the new AiQ Lite offers streamlined camera functionality in a smaller single module housing to System Integrators who benefit from 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.



#### Back-Office

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



#### Global Multi-Country Support

Superior Ai based technology able to identify licence plates in more than 150 countries including Latin and Arabic.



#### Low Power Draw

Exceptionally Low Power Draw and Power Scheduling Facility ideal for use with renewables power source or low power use cases



#### High Performance

Full control and live feedback of ANPR, camera and IR settings.



#### Extra Analytics

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

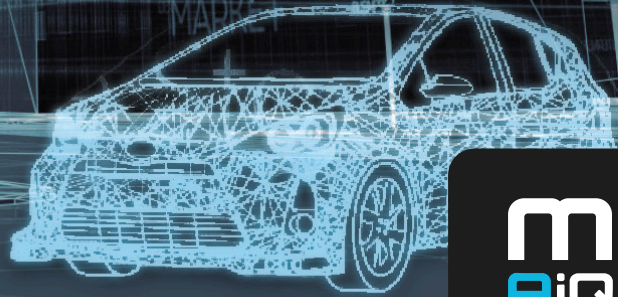


#### Extreme Performance

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

MAV AiQ Lite

# Designed for the Future



**MAV**  
AiQ Lite

Proven building blocks remain in the AiQ Lite including one 1080p full HD camera module per unit for colour and IR images at night. Using a fixed lens block with operational range of 15-25m ensures flexible installation and maxIRange™ IR lighting provides up to 25m range for high speed dual lane capture.

## Camera Setup

Setting up the AiQ Lite 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 ensures real time recognition at high speeds with enough spare power for additional tasks.



Embedded ANPR Engine



Single Fixed Lens Module



Embedded Ai



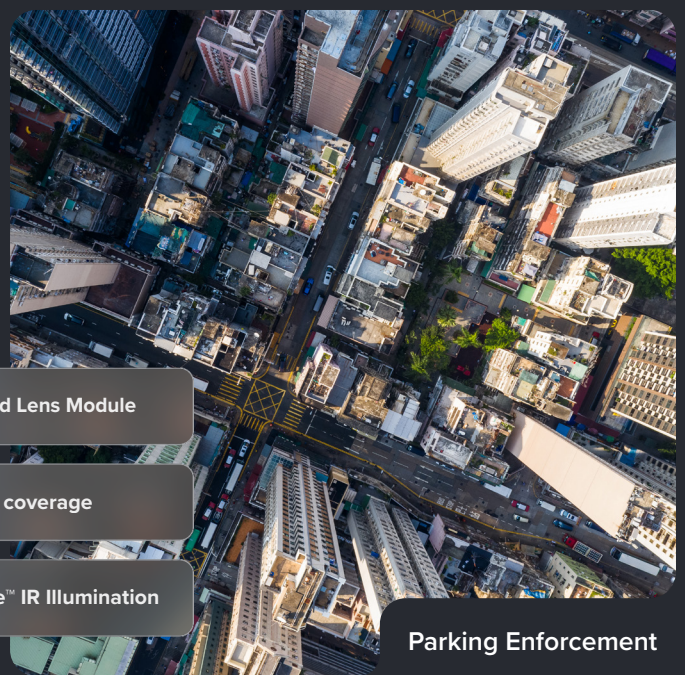
Full 2 lane coverage



Full HD Video



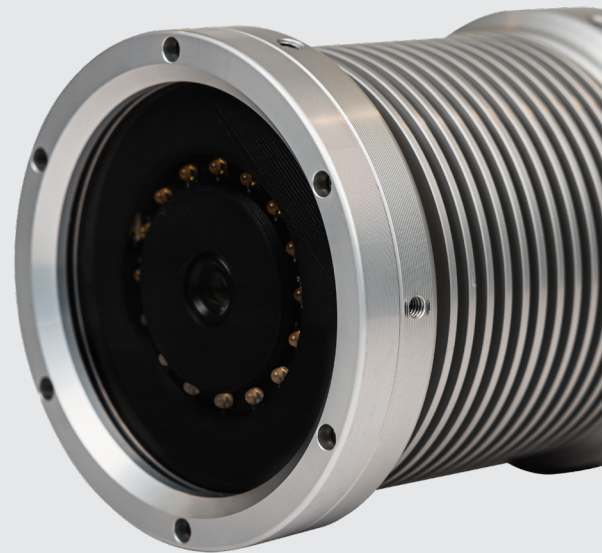
maxIRange™ IR Illumination



Parking Enforcement

High Speed, High- Definition Intelligent ANPR Camera

# MAV AiQ Lite



## SPECIFICATIONS

Recognition Range	Capture up to 8m width of traffic lanes from 15m to 25m range based on 850nm IR on EU retro-reflective plates
Sensor	ANPR and Overview: 1/2.8" 1920(H) x 1080(V) 16:9 rolling shutter, 30 fps
Fixed Lens	Focal Length: f=16mm
IR illumination	LED array with lenses (850nm standard. White light)
Optical Filters	Day/Night IR Cut Filter (auto/manual)
Camera Control	Integrated web server provides full camera and illuminator setup Camera Control pages and live preview from any connected browser (no plug-ins required)

## ANPR ENGINE FUNCTIONALITY

ANPR Processor	Quad core embedded processor
ANPR Software / Presets	Vaxtor 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)
ANPR Engine Protocols	Supports JSON, UTMC, BOF 2 web services, NPED, Secure File Exchange, Helix, FTP and ONVIF(m)

## PHYSICAL SPECIFICATIONS

Operating Voltage	PoE or PoE+ (802.3at) (dependant on settings)
Network Connections	10/100/1000 Base-T physical
Power Consumption	9W in day and <14W Nighttime (IR High)
Dimensions	100mmx100mmx120mm excluding the connector
Weight	<950g Excluding Sunshield & Bracket
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	MAV Remote support & Setup Desk available for deployment
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