



# IQ:250 – Intelligent ANPR

DUAL ALL-IN-ONE HD ZOOM CAMERA



**Incorporating HD image quality, motorized zoom, high speed ANPR recognition and maxIRange™ pulsed IR lighting in one efficient unit, the IQ:250 range sets new standards for intelligent ANPR cameras.**

The IQ:250 provides recognition up to 8m lane width for detection of plates and is simple to set up with truEZoom™ for perfect field of view at distances from 3m up to 50m. Setup is performed using the camera's API or from any browser using the IQ's web setup with live video feed.

By performing the ANPR recognition within the camera network traffic is massively reduced. Real time recognition is performed on raw high definition images at full frame rate and will work for all traffic speeds from high speed highway gantry systems to access control.

The IQ range incorporates high grade processing within the unit to give industry leading ANPR accuracy. Extensive metadata is provided for each plate read to offer application developers everything needed to determine plate characteristics, direction of travel and provide cropped overview and plate patch images. All this is available from the internal server using open standard JSON web services. A single lane (SL) IQ is also available within MAV's range of Intelligent ANPR cameras.

The Internal data management of the IQ enables store and forward whilst offline, ensuring no data is lost. The IQ:250 offers store and forward buffering to provide up to one million cached reads or immediate data transfer via an API supporting JSON, FTP, UTMC1.2 and Web Services. The IQ:250 is hermetically sealed to IP68 and can be powered using PoE+ to give a single cable install.

All-in-One Intelligent Camera  
 HD quality with truEZoom™  
 Dual ANPR and Overview  
 maxIRange™ Illumination  
 API options for Json, FTP,  
 UTMC 1.2 and XML Web Services

## REASONS TO BUY THE IQ:250

- HD VIDEO** – up to 8m lane width capability from digital video for maximum quality
- INTEGRATED ANPR ENGINE** – to provide high accuracy reads with meta data
- JSON WEB SERVICES** – simple integration into applications using open interface
- ZOOM CAMERAS** – fully controllable truEZoom™ for the perfect field of view
- POWERFUL PULSED IR** – maxIRange™ for true day/night number plate recognition
- ECO POWER / PoE+** - less than 8W total, optionally powered from 802.3at PoE+
- EASY INSTALLATION** – full setup using web browser with live video
- STAND-ALONE** - with optional sunshields and brackets for quick installation
- WEATHER PROOF** - fully hermetically sealed to IP68
- OFFLINE DATA MANAGEMENT** – Store and forward for offline data transfer (Optional)



## RAPIER IQ:250 OVERVIEW

All-in-One ANPR HD Zoom camera with integral ANPR recognition

Camera Specifications	IQ:250	IQ:150 SL
Recognition Range	Capture of up to 8m of traffic lanes from 3m to 50m based on 850nm IR on EU retro-reflective plates	Capture of up to 4m traffic lane(s) from 3m to 50m based on 850nm IR on EU retro-reflective plates
Motorised Zoom	Controllable 60° to 3° Horizontal Field of View Lens equivalent 4.5mm to 125mm	Controllable 54° to 2.5° Horizontal Field of View Lens equivalent 3.75mm to 83mm
Shutter / Iris	1/50 to 1/10,000 / F1.4 (wide) to F4.2 (tele)	1/50 to 1/10,000 / F1.6 (wide) to F3.6 (tele)
Image (ANPR and Overview)	Two HD cameras: 1280(H) x 720(V) effective pixels digitally connected to ANPR processor at 25 fps	Two SD cameras: 752(H) x 582(V) effective pixels digitally connected to ANPR processor at 25 fps
IR illumination	4 pulsed LED arrays with lenses (850nm standard. White light, 740nm or 940nm optional)	
Low Light	ANPR: 0.0 Lux with IR illumination OV: 0.1/0.006 Lux (Colour/B&W (no IR Cut) selectable)	
Optical Filters	IR: Bandpass matched to LEDs OV: Day/Night IR Cut Filter	
Camera Control	Integrated web server provides full camera and illuminator setup pages and live preview from any connected browser (no plug-ins required)	
<b>ANPR Engine Functionality</b>		
ANPR Processor	Dual Core DSP with co-processor and two channel internal parallel video input	
ANPR Software / Presets	ANPR license and configuration upload via web based configuration pages for simple remote management	
ANPR Engine Protocol	JSON web services provide full access to overview and plate patch images and metadata as push or pull messages for easy integration into applications (O/S independent) and via web pages	
ANPR Metadata	Multiple plate tracking with IDs, full availability of plate movement/size data through field of view	
ANPR Features	Image cropping options for Overview image, advanced de-skew and yaw correction, character spacing validation, country of origin matching	
<b>Physical Specifications</b>		
Operating Voltage	10 – 15 VDC protected or PoE+ (802.3at)	
Network Connections	10/100 Base-T physical	
Power Consumption	Nominally 14W	
Size (WxHxD)	163 x 163 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	-20° to 55°C ambient (Operating) / 0% - 100% RH (sealed)	
<b>Service</b>		
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	
Quality Management	MAV operate a quality management system complying with ISO 9001:2000	
Training	Comprehensive product training programmes for customers	



MAV Systems Limited  
Unit 1, Lullingstone Park Farm Offices  
Eynsford, Kent, UK, DA4 0JA  
+44 333 800 3050  
www.mav-systems.com  
www.anprcameras.com