

Rapier 55

High Definition ANPR Camera with Pulsed IR LED Illumination

The Rapier 55 ANPR camera incorporates high grade camera technology, innovative InfraRed (IR) pulsed LED design and multiprocessor control circuitry providing formidable ANPR/LPR camera solutions for professional use in fixed situations.



RAPIER



Flexible

Electronically adjustable zoom for optimal set up



Rugged

High grade enclosure with simple installation options



Performance

Best-in-class ANPR images at medium to long range



Sealed

Hermetically sealed to IP68 for demanding physical environments



Illumination

Pulsed multi-level lighting control capabilities



Control

Duplex control and feedback with protocol support for drop-in replacement



Economical

Low current requirements for high light output



Slave Illumination

Free setup applications and installation controls



Formidable Performance

The Rapier 55 provides images for worldwide number plate recognition at a typical range of 5 to 50 metres but has also been proven to provide consistently high visibility plate images at distances in excess of 60 metres, day and night. Rapier 55 provides both IR images for ANPR recognition and colour overview images for evidential capture.

Rapier 55 offers multi-level frame-by-frame variation of IR illumination as standard so that it can provide high quality images from a wide range of differing number plate characteristics. Combined with an impressive 37x optical zoom, the Rapier 55 outperforms all its competitors.

Rapier 55 has been designed for ease of use in fixed applications with standard CCTV installation options for use on gantries, lamp posts and bridges.

The camera's housing is fully sealed to IP68 and purged for long life performance.



MAV Rapier 55 Specification

ANPR long range zoom cameras with high output IR illumination in compact IP68 enclosures

Specifications

Recognition Range and Field of View	Typically 5 to 50 metres Range based on 850nm illumination on EU transfective plates occupying ¼ field of view
Zoom	57.8° to 1.7° Horizontal Field of View (fully optical) in over 1000 steps
IR Illumination	4 high power pulsed LED arrays (White Light, 740nm, 850nm or 940nm) with lens beam pattern options
Image	PAL 752(H) x 582(V) Pixels with 440K effective picture elements providing up to 550TVL resolution ANPR: 0.01 Lux with IR Illumination Overview: 1.4 Lux Colour @ 1/50 sec Overview: 0.1 Lux Colour @ 1/3 sec
Shutter	From 1/50 to 1/10,000th with Sequential Shutter control option
Filters	ANPR: IR Bandpass Overview: Day/Night IR Cut Filter
Camera Control Protocols	AVML and other standards available via RS232
Operating Voltage	10.5–15 VDC at camera. Unit protected for under voltage and overvoltage to 18VDC. Recommend use of low volt drop cabling for longer cable runs. MAV offer a range of made-to-length composite cables for this purpose 1-75m and PSUs. Input voltage is conditioned by internal circuitry to ensure consistent illumination in full operational range.
Power Consumption	Nominally 25W
Physical (WxHxD)	163 x 163 x 114 mm (cylindrical) – excluding brackets/sunshield
Enclosure	IP68 hermetically sealed Hard anodized aluminium in natural aluminium with rugged mount options (Black anodized option available)
Weight	Camera 2.45Kg – Camera with Sunshield and bracket 3.00Kg
Temperature	-20°C to 50°C operating

Options and Accessories

Cable harness sets	The camera is fitted with high-grade locking connectors. Connection from the Rapier to the ANPR equipment is available through CAT5e cabling. The unit is powered by 12VDC power and has I/O connectivity for triggering multiple units.
Brackets	A range of metal cradles, brackets and sunshields are available for fixed installations. Modified and bespoke metalwork can be designed and supplied to meet specific demands. Standard ranges include rapid fixing brackets/adaptors to standard CCTV (4"/102.5mm PCD), RAM Mount and tripod connectors in pole/wall mount configurations with tilting/panning and yaw capabilities for better alignment. The sunshields are available in a variety of construction techniques and sizes.
Pan and Tilt	MAV Systems provide pan and tilt heads, and interface units, to enable remote movement of the camera position. Pan and Tilt units have jog and preset capabilities that can be combined with presets to create integrated fixed platforms. Pan and Tilt interfaces support industry standard protocols, with enhanced features through the MAV AVML protocol.
Ethernet (IP) Encoding of Video and Camera Control	An extended version of Rapier 55 offers integrated 2 channel video encoding to MJPEG and H.264 standards. The Rapier incorporates integral Ethernet switch and serial over Ethernet capabilities. This product requires no frame grabber at the PC and can be incorporated into any structured cabling system for wide area video connectivity.

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 options available
Long Term Supply	Complete support for the life of the product
Training	Comprehensive product training programmes for customers