



Rapier IP

IP RANGE OF NETWORK-ENABLED ANPR CAMERAS



Network Enabled
Multi Video Streams
ANPR Quality Images

Our highly advanced network-enabled Automatic Number Plate Recognition (ANPR) cameras offer outstanding cost reduction and new capabilities to ANPR providers and system integrators who are looking to embrace the benefits of LAN/WAN video networking.

Rapier 30IP and Rapier 50IP

These models incorporate the advanced image quality and market-leading features of the Rapier 30 and 50 models combined with: Two independent high specification video encoders (JPEG, MJPEG, MPEG4 and H.264) Integral 10/100 base-T Ethernet switch with two external presentations for easy chain connection Camera control via IP with virtual COM port maintaining compatibility with legacy applications Both cameras' video streams and the control protocol are presented on one physical Ethernet connection for a fully network-enabled ANPR solution.

This tiny cost effective package, hermetically sealed to IP68, replaces the many multiple boxes that have been required in the past and offers far greater integrated control of ANPR and analytic capabilities

REASONS TO BUY RAPIER IP CAMERAS

- EASY INSTALLATION** - single Ethernet connection for video and control
- HIGH QUALITY VIDEO** - encoded within the camera for best quality images
- GREATER FLEXIBILITY** - extended distance capability using CAT5/6 cabling
- ZOOM CAMERAS** - controllable for the perfect field of view
- MARKET BEATING IR** - for true day/night number plate recognition
- DAISY-CHAIN** - ethernet connection via integral switch for additional peripherals
- VIDEO CONTENT ANALYSIS** - options built within unit via DSP
- STAND-ALONE** - with optional sunshields and brackets for quick installation
- WEATHER PROOF** - full hermetic sealing to IP68



RAPIER IP OVERVIEW

Fully integrated ANPR cameras with IP Video Streaming and Video Content Analysis

Camera Specifications	Rapier 30IP	Rapier 50IP
Recognition Range	Typically 3 to 30 metres	Typically 3 to 60 metres
	Range based on 850nm illumination on EU transfective plates occupying 1/4 field of view	
Zoom	51.54° to 4.49° Horizontal Field of View in over 1000 steps	55° to 1.59° Horizontal Field of View (fully optical) in over 1000 steps
IR illumination	5 plused LEDs with lens array (850nm or 940nm)	New Higher power pulsed LED arrays (850nm or 940nm)
Image	752(H) x 582(V) effective picture elements providing up to 680TVL resolution	752(H) x 582(V) effective picture elements providing up to 680TVL resolution
	ANPR: 0.0 Lux with IR illumination OV: 0.2/0.04 Lux (Colour/B&W selectable)	ANPR: 0.0 Lux with IR illumination OV: 0.7/0.06 Lux (Colour/B&W selectable)
Shutter	From 1/50 to 1/120,000 th with sequential shutter control option	
Filters	IR: Bandpass	
	OV: Day/Night Cut Filter	
Camera Control Protocols	AVML and other standards available as virtual serial port connection over IP	
Encoder Specifications	Each Rapier IP includes 2 physical encoders for separate ANPR and Overview video channels	
Compression Format	H.264, MPEG-4, MJPEG, JPEG	
Resolution and Compression	D1, 2CIF, CIF, QCIF – up to 25fps@D1 per channel	
Deinterlacing	Supported with DSP	
Number of Streams	Up to four video streams internally with dual stream capability configurable on each encoder	
Network Connections	2 separate 10 / 100 Base-T physical presentations with 2 encoders and serial to IP conversion available as separate addressable entities	
Protocols supported	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, FTP, DDNS, PPPoE, SSL v2/v3, IEEE 802.1X, SNMP, SSH and IPv6	
DSP Features	Video Content Analysis supported (licence required) with motion detection, vehicle counting, virtual triggers, stabilization and other features available. Based on TI DaVinci processor	
Physical Specifications	Rapier 30IP	Rapier 50IP
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 18W	Nominally 25W
Physical (WxHxD)	138 x 57 x 106mm	163 x 163 x 114mm
Enclosure	IP68 hermetically sealed. Hard anodized aluminium in black with mount options	
Temperature	-20° to 50°C operating	
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	
Long Term Supply	Complete support for the life of the product	
Quality Management	MAV Systems operates 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 1344 859753
www.mav-systems.com
www.anprcameras.com