Rapier 50HD

HIGH DEFINITION ANPR CAMERAS WITH HIGH OUTPUT IR ILLUMINATION
IN A COMPACT IP68 ENCLOSURE

MAV
ANPR TECHNOLOGY FOR
INTELLIGENT TRAFFIC SOLUTIONS

High Definition ANPR Camera with Pulsed IR LED Illumination

The Rapier 50HD ANPR camera incorporates high definition GigE camera modules with our innovative InfraRed (IR) pulsed LED designs to provide a formidable ANPR/LPR camera solution for use in fixed site applications with multi-lane coverage and high speed traffic capabilities.

Multi Lane

High resolution images providing excellent recognition

Rugged

High grade metal enclosure with simple installation options

Performance

Best-in-class with fifty HD images per second

Sealed

Hermetically sealed to IP68 for demanding physical environments

Illumination

Pulsed illumination with control capabilities over network

Control

Full control and feedback of cameras and IR settings

Economical

Low power consumption but high light output

Slave Illumination

Optional units for improved overview images at night

HD IP – GigE

Ethernet connectivity for fully digital raw images

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Winning HD ANPR Performance

The Rapier 50HD provides up to 50 digital images per second at 1280x1024 pixel resolution without any compression of the video data or effects of analogue cabling. This means around 8 times more accurate information and recognition over a far wider field of view.

Rapier 50HD is available as a mono ANPR only camera or dual with a second colour module for evidential image capture. The 50HD cameras are provided with megapixel lenses in a range of focal lengths from 5m to 50m.Rapier 50HD has been designed to work in conjunction with our optional Rapier 50LX illumination unit that can be added to installations to provide improved night-time overview images.

Rapier 50HD 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. Connectivity is provided via CAT5e cabling to networks and ANPR processor units.

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Technical Data

SPECIFICATIONS

Recognition Range and Field of View	Typically 5 to 50 metres depending on choice of lens (8, 12, 16, 25, 35mm) Field of view typically 6m (2 lanes of traffic) at high speed with very high accuracy
Illumination (built in)	4 high power pulsed LED arrays (White Light, 740nm, 850nm or 940nm) with lens beam pattern options
Illumination (built in)	Trigger I/O available with MAV Snap Mode and Triggered sequences available
Image	1/1.8” sensor with 1280(H) x 1024(V) effective picture elements providing raw 1.3 Megapixel images
Image manipulation	Camera based Area of Interest (AoI) facilities and scaling possible via SDK or control application
Image manipulation	Camera based Area of Interest (AoI) facilities and scaling possible via SDK/application
Frame rate	Up to 50 images per second (ips). Snap mode also allows triggered single or sequential capture
Exposure Time / Equivalent Shutter (based on 50 ips)	Global exposure time 50µs - 20ms / Equivalent shutter speed 1/20,000th to 1/50th second
Illumination period/ power	Illumination pulse width, offset and power variable under software control including tracking of exposure
Cabling	Maximum cable length 100m without GigE network relay
Camera Control Protocols	GigE SDK and 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 30W
Physical (WxHxD)	163 x 163 x 114 mm (cylindrical) - excluding brackets/sunshield
Enclosure	IP68 hermetically sealed hard anodised aluminium in natural aluminium with rugged mount options
Weight	Camera 2.45 Kg – Camera with Sunshield and bracket 3.00 Kg
Temperature / Humidity	-20°C to 50°C operating

OPTIONS AND ACCESSORIES

Options and Accessories	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 by12VDC 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.

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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