mav *HOME OF ANPR CAMERAS*

Rapier 30HD

High Grade Mobile HD ANPR Camera

The Rapier 30HD camera provides HD images of superb quality in a mobile or fixed environment. The high definition GigE camera module is synchronized to upgraded infrared (IR) pulsed LEDs to offer superior license plate recognition to match the increased capture width that megapixel (MP) HD offers.

RAPIER

Multi Lane
High resolution images providing excellent recognition

Rugged
High grade metal enclosure with simple installation options

Performance
Best-in-class with up to 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 camera and IR settings

PoE
Power over Ethernet for both camera and illumination on single cable

Megapixel HD
GigE Ethernet connectivity for uncompressed images

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

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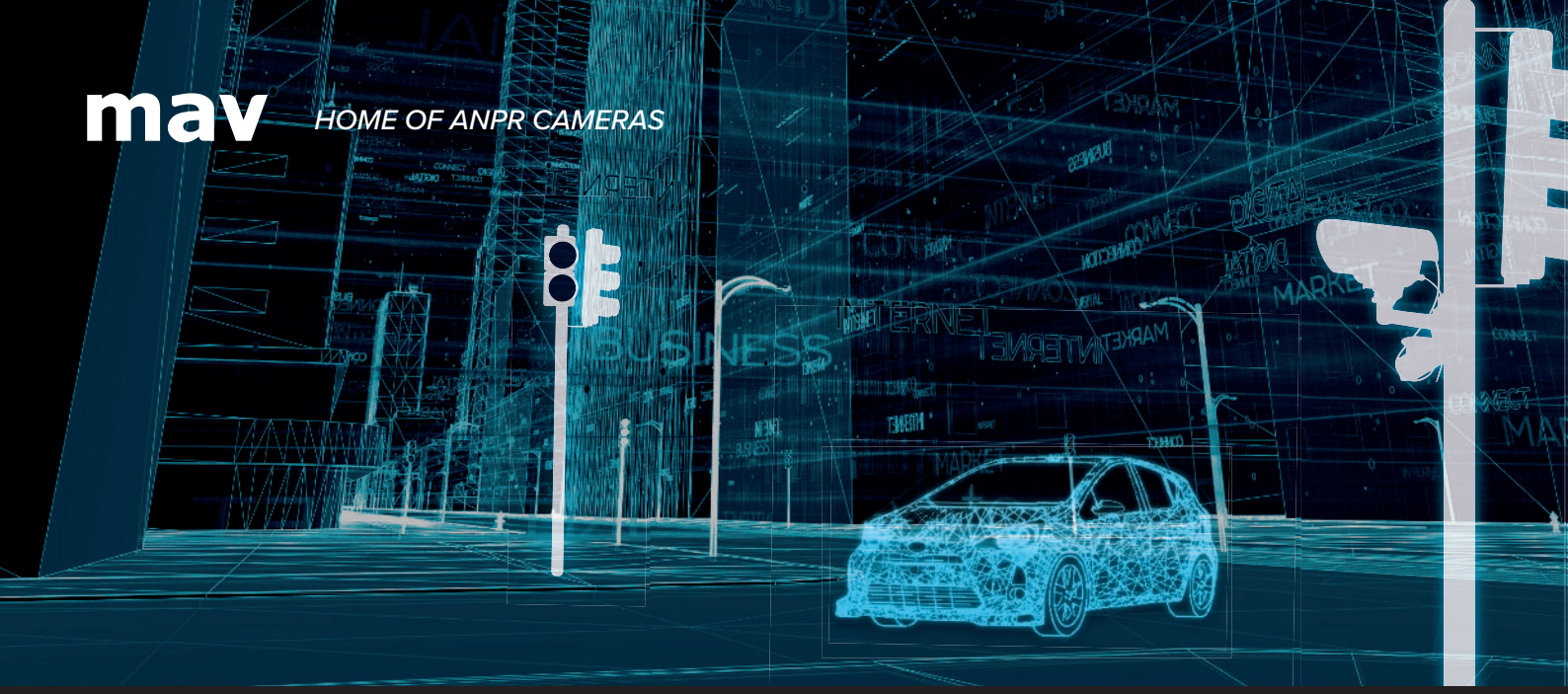

Compact HD Performance

The Rapier 30HD range offers a choice of either 2.0MP or 1.3MP models as a compact ANPR capture head with integrated illumination. These models provide digital ANPR images without any compression allowing every pixel to count. The 2.0MP model will capture license plates over a 10m width when reading EU plates whilst the 1.3MP model still captures plates within 7m of traffic lanes.

The Rapier 30HD is offered with a range of high quality fixed lenses for a choice of target distances with preset focus that covers the full capture range.

Rapier 30HD uses a custom designed bandpass filter and an improved bank of infrared illuminators for full width multilane operation.

Rapier 30HD has been designed for ease of install on vehicles including use within lightbars and is fully hermetically sealed to IP68

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MAV Rapier 30HD Specification

Rapier 30HD is available in two models, 2.0MP or 1.3MP with a choice of lens to meet your exact requirements.

Specifications

Recognition Range	Typical recognition range 8m to 20m. Choice of lens 8mm, 12mm, 16mm, 25mm.
Horizontal Field of View	1.3MP: 7m (approx. 2 lanes of traffic) at high speed with very high accuracy 2.0MP: 10m (up to 3 lanes of traffic) with very high accuracy
Illumination	14 high power pulsed micro-lens LED arrays to match choice of optical lens. 850nm or optionally White Light, 740nm or 940nm
Illumination features	Continuous Pulsed, Snap Mode and Triggered sequences available
Image	1.3MP: 1/1.8” sensor with 1280(H) x 1024(V) providing raw 1.3 Megapixel images 2.0MP: 1/1.8” sensor with 1600(H) x 1200(V) providing raw 2.0 Megapixel images
Image manipulation	Camera based Area of Interest (AoI) facilities and scaling possible via SDK/application
Frame rate	1.3MP: Up to 50 images per second (ips) set by SDK/application. 2.0MP: Up to 35 images per second (ips) set by SDK/application. Snap mode also allows triggered single or sequential capture
Exposure Time	Global exposure 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	Supplied with 5m GigE cable – extendable within limits of 803.2at type 2 standards
Camera Control Protocols	GigE SDK and AVML and other standards available via GigE
Power Requirement	PoE+ (803.2at type 2)
Power Consumption	Nominally 13W
Physical (WxHxD)	138 x 57 x 88 mm - excluding brackets/sunshield
Enclosure	IP68 hermetically sealed hard anodised aluminium in black with rugged mount options
Weight	1.0Kg (2.2lb)
Temperature / Humidity	-20°C to 50°C operating with relative humidity 0%RH to 100%RH (hermetically sealed)

Options and Accessories

Cable harness sets	Connection from the Rapier to the ANPR equipment is available through CAT5e cabling. The unit is powered over the GigE network using PoE+. Commercial PoE+ injectors or PCs that have 803.2at compatible outputs can be used to power the R30HD.
Brackets / Sunshields	A range of metal cradles, brackets and sunshields are available. Modified and bespoke metalwork can be designed and supplied to meet specific demands.
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 options available
Long Term Supply	Complete support for the life of the product
Training	Comprehensive product training programmes for customers

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