



# Rapier 30HD

HIGH GRADE MOBILE HD ANPR CAMERA




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Multilane Mobile ANPR  
 Multilane Fixed ANPR  
 Congestion Charging  
 Journey Time Analysis  
 Road Tolling  
 Security

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## COMPACT HD PERFORMANCE

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.

The Rapier 30HD range offers 1.3MP models in a compact ANPR capture head with integrated illumination. These models provide digital ANPR images without any compression allowing every pixel to count. The total width when reading EU plates with 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

## REASONS TO BUY RAPIER 30HD

**MULTI LANE** – High resolution images providing excellent recognition

**PERFORMANCE** - Best-in-class with up to fifty HD images per second

**ILLUMINATION** - Pulsed illumination with control capabilities over network

**Power** – DC power for efficient deployment or vehicle installation

**RUGGED** - High grade metal enclosure with simple installation options

**SEALED** - Hermetically sealed to IP68 for demanding physical environments

**CONTROL** - Full control and feedback of camera and IR settings

**MEGAPIXEL HD** – GigE Ethernet connectivity for uncompressed images

## RAPIER 30HD SPECIFICATION

Rapier 30HD is available with the, 1.3MP Sensor and a range of IR including 850nm or 940nm with a choice of lens to meet your exact requirements.

| Specification             |   |
|---------------------------|---|
| Recognition Range and     | Typical recognition range 8m to 20m.<br>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  |
| Illumination              | 12 high power pulsed micro-lens LED arrays to match choice of optical lens.<br>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  |
| 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.<br>Snap mode also allows triggered single or sequential capture   |
| Exposure Time             | Global exposure 50µs - 20ms / Equivalent shutter speed 1/20,000 <sup>th</sup> to 1/50 <sup>th</sup> second  |
| Illumination period/power | Illumination pulse width, offset and power variable under software control including tracking of exposure   |
| Cabling                   | Supplied with 3 x fitted 0.5m GigE and composite cables – extendable within limits of 803.2at type 2 standards  |
| Camera Control Protocols  | GigE SDK and AVML and other standards available via GigE  |
| Power Requirement         | 10.5 – 15VDC  |
| Power Consumption         | Nominally 14W   |
| Physical (WxHxD)          | 138 x 57 x 148 mm (WxHxD) - excluding brackets/sunshield  |
| Enclosure                 | IP68 hermetically sealed hard anodised aluminium in black with rugged mount options   |
| Weight                    | 1.2Kg (2.5lb)   |
| 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 2 inline Binder connectors 0.5M long extra adapters 720/8 to CAT5e cable, and 720/5 to powered over the DC  |
| 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   |
| Long Term Supply          | Complete support for full life of the product   |
| Training                  | Comprehensive product training programmes for customers   |



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