

Vidar Speed – Cameras for Speed Measurement and ANPR

| Imaging | Vidar Speed 2xFHD LT | Vidar Speed 5MpHDx LT |
|------------------|---|---|
| Resolution | Sensor 1&2: 3MP (2048x1536) | Sensor 1: 5MP (2464x2048) Sensor 2: 1.5MP (1440x1080) |
| Max FPS | 60 @ 1080p | 45 @ 3MP on sensor 1 or 120 @ 720p on sensor 2 |
| Sensor | Sensor 1 & 2: Color, Global Shutter | |
| Day/Night switch | Automatic brightness control with predefined traffic environments or manual | |
| Lens | Motorized zoom and focus, remotely adjustable | |
| Lens mount | Custom mount | |
| Angle of View | Optics 1&2: Wide: 26.5° x 20° Tele: 8.1° x 6.1° | Optics 1: Wide 25.1° x 21.3° Tele: 7.7° x 6.4° Optics 2: Wide: 55.7° x 43.2° Tele: 3.4° x 2.5° |
| Optical Zoom | Optics 1&2: 3.3x | Optics 1: 3.3x Optics 2: 18x |
| Focal length | Optics 1&2: Variable, 15 – 50 mm | Optics 1: Variable, 15 – 50 mm Optics 2: Variable, 4.8 – 84.6 mm |



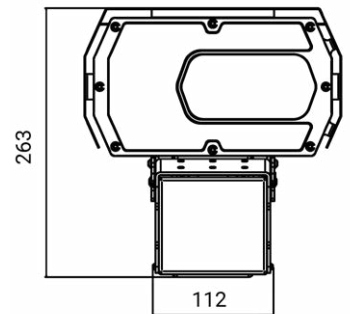
On-Board ANPR+MMR, powered by:

CARMEN®

Distance ANPR Range

Custom sensor configurations (e.g., resolution, color or b/w), optics (zoom or fix, focal length, etc.) and filters (IR-band, IR-Cut, All Pass, and Polarized) are available upon request.

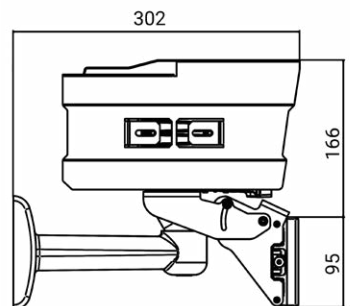
| | | |
|---|---------------------------------------|--------------------|
| Optimal ANPR range at ambient light | 20 m – 40 m (65 feet – 130 feet) | |
| Maximal ANPR range at optimal conditions | 40 m (131 feet) | 50 m (164 feet) |
| Maximum ANPR range at "0" lux* | 35 m (115 feet) | |
| Vehicle speed range (at optimal conditions) | 0 km/h – 320+ km/h / 0 mph – 199+ mph | |
| Maximum road width covered (at standard license plate size) | 8 m (26 feet) | 10 m (33 feet) |
| Maximum number of lanes | 2 | |



On-Board Intelligence

*In the case of reflective license plates ANPR range can be tailored with different lens and sensor combinations to meet specific project requirements.

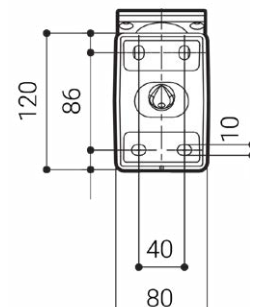
| | |
|-------------------------------|--|
| Carmen on-board ANPR | ✓ |
| GDS compliant | ✓ |
| MMR + Color | ✓ |
| Vehicle category | ✓ |
| Video analytics | License plate detection, vehicle direction detection, category |
| Seat belt usage detection* | ✓ |
| Mobile phone usage detection* | ✓ |
| ADR Recognition | ✓ |



Radar

*Additional AI-based features such as seatbelt detection, mobile phone usage detection, driver photo capture and passenger counting can be enabled for selected projects.

| | |
|--|---|
| Vehicle speed data | METAS-certified |
| Measurement range | 0 – 320 km/h (199 mph) |
| Measurement accuracy | ±1 km/h (0.6 mph) or ±1 % (the bigger of) |
| Object tracking | Position, direction, angle, speed |
| Measurement frequency | 24 GHz* |
| Sample rate | 75 ms |
| Maximum number of lanes covered | 4 |
| Maximum number of objects tracked simultaneously | 64 |

*77 GHz version also available
On request, the device can also be supplied with a radar with different characteristics.**3-year warranty
Made in EU**

Technical specifications are subject to change without prior notice. For any specific requirements beyond our standard products, custom configurations are available. Please contact our sales team to discuss your project needs and explore tailored solutions. We are happy to help.

**www.adaptiverecognition.com**

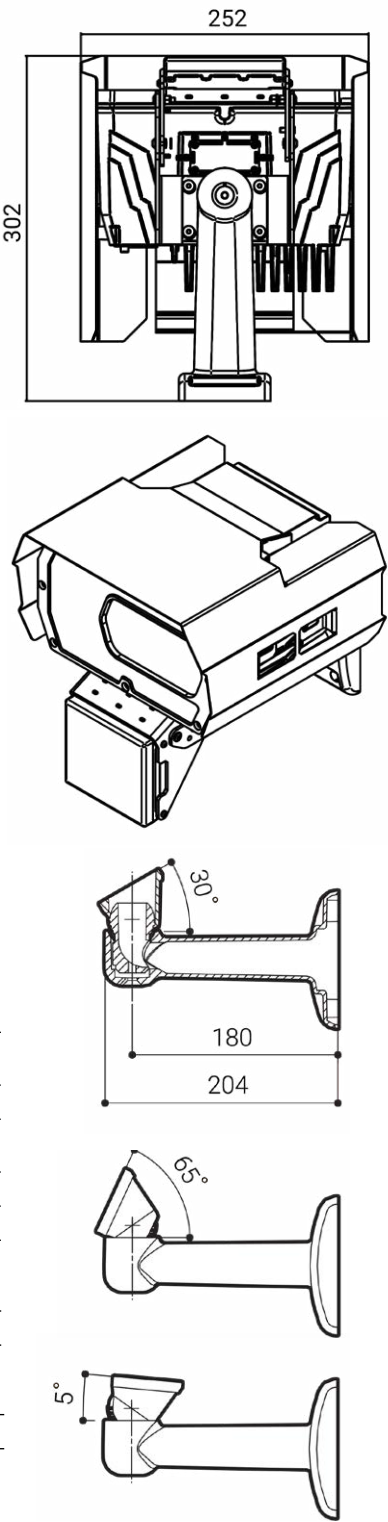
- dual motorized optics · high-performance 4-core ANPR processor · built-in laser trigger · MMR + color · up to 120 FPS
- reads reflective/non-reflective plates simultaneously · overview lens · direction detection · wealth of features
- 850 nm IR illumination · spectacular night-time performance · natively GDS-ready · vehicle categorization

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Release date: 12/03/2025

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| Illumination | | Vidar Speed 2xFHD LT | | Vidar Speed 5MpHDx LT | |
|--|--|----------------------|---------------|-----------------------|--|
| Wavelength | 850 nm | | | | |
| Number of LEDs | 12 high-power LEDs | | | | |
| Illumination modes | Synchronized or continuous | | | | |
| Illumination beam-angle | 22° | | | | |
| Variable intensity | Adjustable in 100 increments, parity flash (different intensity for odd and even frames) | | | | |
| Any required wavelength (white, 760nm IR, 850nm IR, etc.) even mixed with different beam-angles are also available upon request. | | | | | |
| Processing & I/O | | | | | |
| ANPR Processing unit | ARM 64-bit Quad-Core @ 1.4 GHz | | | | |
| Communication protocols | ONVIF, ARP, TCP/IP, DHCP, NTP, FTP, HTTP, RTSP, HTTPS, SFTP, DNS, SNMP, SSL/TLS, NTCIP | | | | |
| I/O ports | 12-pin (UART/GPIO/USB/RS232) | | | | |
| In-built Laser Trigger | 8 mRad Point Laser | | | | |
| Laser wavelength & safety class | 905 nm CLASS I (60825-1 2014) | | | | |
| Certified vehicle speed data | Included | | | | |
| Storage | | | | | |
| Internal storage size and type | 32 GB* SSD | | | | |
| Stored number of events (Internal)** | approx. 50000 | | approx. 40000 | | |
| Event package size for external upload** | 350 - 500 kB | | 400 - 550 kB | | |
| External storage type | FTP, SFTP, HTTP, HTTPS | | | | |
| * Internal storage: max. 1 TB SSD (available upon request) **With default settings | | | | | |
| Electrical Data | | | | | |
| Power requirement | 24 - 28 V AC*, min. 2.5A | | | | |
| Typical power consumption | 24 W | | 26 W | | |
| Maximum power consumption | 60 W | | 65 W | | |
| *36 V DC, when galvanically isolated, double-insulated power supply is in use | | | | | |
| Mechanical Data | | | | | |
| Operating temperature* | -45°C – +70°C (-49°F - +158°F) | | | | |
| IP&IK rating | IP67, IK10** | | | | |
| Dimensions (with bracket) L x W x H | 302 x 252 x 263 mm / 11.89" x 9.92"x 10.35" | | | | |
| Weight (with bracket) | 5.7 kg / 12.56 lbs | | | | |
| In the box | Camera, radar, bracket, shield | | | | |
| ** For IK10 protection an additional accessory component might be required | | | | | |
| Accessories | | | | | |
| M12 power cable, Ethernet cable, Junction Box, External illuminator | | | | | |
| Certificate | | | | | |
| Made in EU, NDAA compliant | | | | | |



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