

# VIDAR

## 4<sup>TH</sup> GENERATION, MODULAR ANPR CAMERA



**3**  
YEAR  
WARRANTY

VIDAR is a highly sophisticated ANPR camera line with optional modules for onboard plate recognition and laser-sharp vehicle detection.



Smart-enabled VIDAR models are capable of running onboard ANPR with superior accuracy, along with vehicle make, model and color recognition, in order to quickly gather vehicle identification information on the spot.

Each unit is protected inside a compact and robotically assembled IP67 rated weatherproof housing to ensure impressive performance in all environments from the arctic cold to the desert heat.

Integrated illumination and advanced brightness control work together to capture clearly visible high-contrast images of both reflective and non-reflective plates.

Also good news for our ITS customers is that VIDAR is natively GDS-ready.



TOLL  
COLLECTION



JOURNEY TIME  
MEASUREMENT



TRAFFIC  
MONITORING



ACCESS  
CONTROL



TRAFFIC  
MONITORING



BORDER  
CONTROL

## Main benefits

- VIDAR can work as a standalone traffic solution.
- Carmen ANPR and Make and Model Recognition runs on-board (optional).
- Built-in synchronized illumination for superior imaging at any traffic speed.
- Variable motorized optics for easy fine-tuning .
- Built-in laser trigger for precise vehicle detection.
- 150% faster OCR recognition than in the previous models.
- High-quality automated manufacturing using robotic assembly.

# Specifications

- Dual motorized optics • high-performance 4-core ANPR processor • built-in laser trigger • optional MMR + color
- reads reflective/non-reflective plates simultaneously • overview lens • optical speed measurement • direction detection
- wealth of features • 2 types of illumination • spectacular night-time performance • natively GDS-ready

	VIDAR HDx	VIDAR HDx LT	VIDAR SMART HDx	VIDAR SMART 2xHDx LT	VIDAR SMART 2xFHD LT
<b>Imaging</b>					
Resolution	1440 x 1080		Sensor 1 & 2: 1440x1080		Sensor 1 & 2: 2048x1536 1920x1080
Max FPS	30 FPS		Sensor 1 & 2: 30 FPS		
Sensor	Color, Global shutter		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	Wide: 54° x 42° Tele: 3,4° x 2,5°		Optics 1 & 2: Wide: 54° x 42° Tele: 3,4° x 2,5°		Optics 1 & 2: Wide: 26° x 20° Tele: 8° x 6°
Optical Zoom	17x		Optics 1 & 2: 17x		Optics 1 & 2: 3.3x
Focal length	Variable 4.8 – 84.6 mm		Optics 1 & 2: Variable 4.8 – 84.6 mm		Optics 1 & 2: Variable 15 – 50 mm

## ANPR

ANPR range	4 m – 20 m / 13 ft. – 65 ft.		10 – 20 m / 33 ft. – 65 ft.		
Maximum ANPR range (at optimal conditions)	50 m / 164 ft.		40 m / 131 ft.		
Maximum ANPR range at *0° LUX	20 m / 65 ft.				
Vehicle speed range (at optimal conditions)	0 km/h – 300+ km/h / 0 mph – 190+ mph				
Maximum lane width covered (at standard license plate size)	6 m / 20 ft.		9 m / 30 ft.		

## On-Board Intelligence

Carmen ANPR onboard	–	–	✓	✓	✓
ANPR Cloud compliant	✓	✓	✓	✓	✓
GDS & EVTS compliant	✓	✓	✓	✓	✓
MMR + Color	–	–	Opt.	Opt.	Opt.
Video analytics	Image preselection (vehicle detection)		Image preselection (vehicle detection), vehicle direction, approximate vehicle speed.		

## Illumination

Wavelength	850 nm (white and 760 nm are optional)				
Illumination modes	Synchronized or continuous				
Illumination beam-angle	16°				
Variable intensity	Adjustable in 100 increments, parity flash (different intensity for odd and even frames)				

Technical specifications are subject to change without prior notice. This document does not constitute an offer.

	VIDAR HDx	VIDAR HDx LT	VIDAR SMART HDx	VIDAR SMART 2xHDx LT	VIDAR SMART 2xFHD LT
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### Processing & I/O

ANPR Processing unit	ARM Quad-core 1.4 GHz				
Communication protocols	ONVIF, ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP, HTTPs, SFTP				
I/O ports	12-pin (UART, GPIO, USB, RS232)				
GPS	Optional (external GPS box)				
In-built Laser Trigger	X	8 mRad Point Laser	X	8 mRad Point Laser	
Laser wavelength & safety class	X	905 nm CLASS 1 (60825-1 2014)	X	905 nm CLASS 1 (60825-1 2014)	
Radar for triggering	Optional, K-Band				
Certified vehicle speed data	X		Optional		

### Electrical Data

Power requirement	24-28 V AC				
Typical power consumption	11 W		12 W		18 W

### Mechanical Data

Operating temperature*	-45°C – 70°C / -49°F – 131°F (158°F)*				
IP&IK rating	IP67, IK10				
Dimensions (LxWxH)	250x251x145 mm / 9.84"x9.88"x5.7"				
Weight	4.5 kg / 9.92 lbs				
In the box	Camera, bracket, shield				

### Accessories

Binder M12 power cable, Phoenix Ethernet cable, Freeway-RADAR (Doppler radar), Junction Box, External IR-light, External GPS

### Certificate

Made in EU, NDAA compliant



\*internal temperature / ambient temperature: 55°C (131°F)

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