TRAFFIC MONITORING CAMERAS

ANPR + MMR RESULTS:

DK AF 42 885

Number plate:	AF42885
Nationality:	EU-Denmark
Make:	BMW
Model:	320d
Color:	Blue
Speed:	108 Mph / 174 kmh
Blacklist:	---NO---
Recognition time:	08-03-2020 19:20+00:00

VIDAR
4TH 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.**
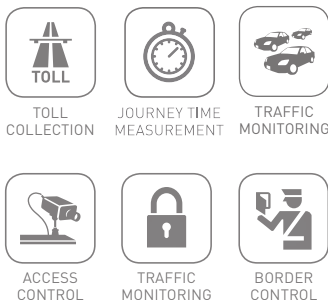
Smart-enabled VIDAR models are capable of running onboard ANPR with superior accuracy, along with vehicle make, model and color recognition, in order to quickly gather vehicle identification information on the spot.

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

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.

Adaptive Recognition **America**
Adaptive Recognition **Hungary**

Adaptive Recognition **Nordic**
Adaptive Recognition **Singapore**

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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 2×HDx LT	VIDAR SMART 2×FHD LT

Imaging

	VIDAR HDx	VIDAR HDx LT	VIDAR SMART HDx	VIDAR SMART 2×HDx LT	VIDAR SMART 2×FHD LT
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	17×			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

	VIDAR HDx	VIDAR HDx LT	VIDAR SMART HDx	VIDAR SMART 2×HDx LT	VIDAR SMART 2×FHD LT
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

	VIDAR HDx	VIDAR HDx LT	VIDAR SMART HDx	VIDAR SMART 2×HDx LT	VIDAR SMART 2×FHD LT
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.		
ADR Recognition	–	–	✓	✓	✓

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 2×HDx LT	VIDAR SMART 2×FHD LT

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 tempreture*	-45°C to +55°C / -49°F to +131°F (158°F)*
IP&IK rating	IP67, IK10
Dimensions (L×W×H)	250x251x145 mm / 9.84"×9.88"×5.7"
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

CE FC UL RoHS ONVIF

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