

VIDAR

Traffic Monitoring Cameras

Extend your view of ANPR cameras.

Get more than just license plate recognition: on-board intelligence, built-in triggering, make-and-model recognition, and even speed measurement... independently of light conditions and enduring all weather conditions on the planet.

That's all yours with Vidar.

Setup is a breeze

It guides you through the steps and automatically tunes itself for the best settings.

Smart triggering

Multiple non-intrusive vehicle detection functions, performed on-board.

Adaptive to everything

The ever-changing light conditions in 0-24, weather and temperature extremes... Vidar still withstands.



DISTANCE RANGE

	Vidar HDx	Vidar HDx LT	Vidar Smart HDx	Vidar Smart 2xHDx LT	Vidar Smart 2xFHD Smart LT
Optimal ANPR range at ambient light	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	10 m - 20 m / 33 ft - 65 ft
Optimal ANPR range at "0" LUX	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	4 m - 20 m / 13 ft. - 65 ft.	10 m - 20 m / 33 ft - 65 ft

Maximum ANPR range at optimal conditions	50 m / 164 ft.	50 m / 130 ft			
Maximum ANPR range at "0" LUX, optimal conditions	35 m / 115 ft.	35 m / 115 ft			

ON-BOARD INTELLIGENCE

	Vidar HDx	Vidar HDx LT	Vidar Smart HDx	Vidar Smart 2×HDx LT	Vidar Smart 2×FHD Smart LT
CARMEN® ANPR	-	-	Included	Included	Included
Dangerous Goods Recognition (HAZMAT)	-	-	With the required engine	With the required engine	With the required engine
Vehicle Detection (Virtual Loop & Plate Finder)	Included	Included	Included	Included	Included
Position determination	Included	Included	Included	Included	Included
Motion detection	Included	Included	Included	Included	Included
Private Zone	Included	Included	Included	Included	Included
Trigger sources	GPIO/ UART / Software trigger (controlled via HTTP request) / Video Analytics	GPIO/ UART / Software trigger (controlled via HTTP request) / Video Analytics / Laser	GPIO/ UART / Software trigger (controlled via HTTP request) / Video Analytics	GPIO/ UART / Software trigger (controlled via HTTP request) / Video Analytics / Laser	GPIO/ UART / Software trigger (controlled via HTTP request) / Video Analytics / Laser

IMAGING

	Vidar HDx	Vidar HDx LT	Vidar Smart HDx	Vidar Smart 2×HDx LT	Vidar Smart 2×FHD Smart LT
Sensor color mode	Color	Color	Color	Sensor 1 & 2: Color	Sensor 1 & 2: Color
Resolution (H × V pixels) & framerate	1440 x 1080: 30fps	1440 x 1080: 30fps	1440 x 1080: 30fps	Sensor 1 & 2: 1440 x 1080: 30fps	Sensor 1 & 2: 2048 x 1536: 20fps
Sensor type	CMOS	CMOS	CMOS	Sensor 1 & 2: CMOS	Sensor 1 & 2: CMOS
Shutter speed (Full resolution, Max. framerate)	1/22727 - 1/62 sec (44-16000 μs)	1/22727 - 1/62 sec (44-16000 μs)	1/22727 - 1/62 sec (44-16000 μs)	Sensor 1 & 2: 1/22727 - 1/62 sec (44-16000 μs)	Sensor 1 & 2: 1/22727 - 1/20 sec (44 - 49800 μs)
Day mode / night mode	Intelligent light sensor and video analytics controled auto-switching day/night mode	Intelligent light sensor and video analytics controled auto-switching day/night mode	Intelligent light sensor and video analytics controled auto-switching day/night mode	Intelligent light sensor and video analytics controled auto-switching day/night mode	Intelligent light sensor and video analytics controled auto-switching day/night mode
Exposure control mode	Manual and software adjustable auto brightness control				
Shutter type	Global shutter				
Video output format	JPEG, MJPEG stream, H.264				
JPEG quality	Adjustable 40 % - 90 %				

LENS

	Vidar HDx	Vidar HDx LT	Vidar Smart HDx	Vidar Smart 2×HDx LT	Vidar Smart 2×FHD Smart LT
Focal length	Variable: 4.8 – 84.6 mm	Variable: 4.8 – 84.6 mm	Variable: 4.8 – 84.6 mm	Camera 1 & 2: Variable: 4.8 – 84.6 mm	Camera 1 & 2: Variable: 15 – 50 mm
Zoom Ratio (optical)	17 ×	17 ×	17 ×	17 ×	3.3 ×
Field of View (degrees) Horizontal x Vertical	Wide: 54° x 42° Tele: 3,4° x 2,5°	Wide: 26° x 20° Tele: 8° x 6°			
Zoom & focus functions	Remote control, motorized, programmable presets				
Iris functions	Automatic, Remote Control, Motorized				
Built in optical filter	IR cut / all pass				

ILLUMINATION

	Vidar HDx	Vidar HDx LT	Vidar Smart HDx	Vidar Smart 2×HDx LT	Vidar Smart 2×FHD Smart LT
Number of SMD LEDs	12	12	12	12	12
Wavelength	760 850 nm (Infrared) + White				
Illumination modes	Synchronized flash or continuous				
Flash time	30 - 950 μs				

PROCESSING & I/O

Processing unit	ARM Dual Core processor with image processing chip				
Operating memory	1 GB + 256 MB				
Storage for image buffer reserved from the operating memory	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic
CPU for ANPR	-	-	ARM 4×1.4 GHz	ARM 4×1.4 GHz	ARM 4×1.4 GHz
Communication protocols	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP
Interface	1 Gbit/sec Ethernet				

LASER

Wavelength	-	905 nm	-	905 nm	905 nm
Eye safety class	-	CLASS 1 60825-1 2014	-	CLASS 1 60825-1 2014	CLASS 1 60825-1 2014
Laser beam divergence	-	8 mRad	-	8 mRad	8 mRad

ELECTRICAL DATA

Power requirement	24-28 V AC				
Temperature regulation	Intelligent modular temperature control				
Connectivity	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (12 pin)	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (12 pin)	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (12 pin)	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (12 pin)	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (12 pin)

MECHANICAL DATA

Minimum operating temperature	- 45 °C / - 49 °F	-40 °C / -40 °F			
Maximum operating temperature	55 °C / 131 °F				
Maximum operating temperature (internal)	70 °C / 158 °F				
Minimum startup temperature	-40 °C / -40 °F				
IP & IK ratings	IP67 & IK10				
Dimensions (length × width × height)	260x240x135	260x240x135	260x240x135	260x240x135	260x240x135
Weight (without bracket)	4.5 kg	4.5 kg	4.6 Kg	4.6 Kg	4.6 Kg
Weight (bracket)	0.6 kg / 1.32 lbs				
Housing material	Vandal proof aluminium				
Housing color	RAL 9007 (grey aluminium)				
Shield color	RAL 9007 (grey aluminium)				
In the box	Camera, Bracket				

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ADAPTIVE RECOGNITION