

# Vidar Axle Counting Camera

## Image-Based Axle Counting with a Single, Intelligent Camera



### Imaging

#### Vidar Axle Counting Camera

Resolution	Sensor 1 & 2: 1440x1080
Max FPS	Sensor 1 & 2: 120 @ 720p
Sensor	Sensor 1: color + Allpass filter, global shutter Sensor 2: black & white + IR Bypass filter, 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: 79.2° x 63.7° Tele: 30.9° x 23.4°
Optical Zoom	Optics 1 & 2: 3x
Focal length	Optics 1 & 2: Variable 3-9 mm



### Axle Counting

OCR - ACCR range	1.5 - 8 m (4.92-26.25 feet)
Vehicle speed range (at optimal conditions)	0 km/h - 120+ km/h / 0 mph - 74.5+ mph
Maximum number of lanes	1

### Onboard Intelligence

Carmen® ANPR	No
GDS compliance	Yes
Axle counting data	Number and position of wheels (lifted and retracted axles incl.)
Vehicle categorization	Yes

### Illumination

Wavelength	White LED + 850 nm IR
Illumination modes	Synchronized or continuous
Illumination beam-angle	22°
Variable intensity	Adjustable in 100 increments, parity flash (different intensity for odd and even frames)

### Processing & I/O

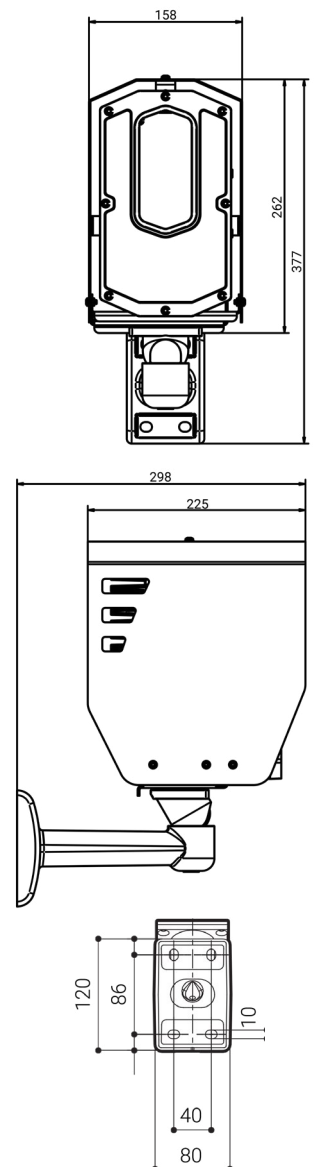
Communication protocols	ONVIF, ARP, TCP/IP, DHCP, NTP, FTP, HTTP, RTSP, HTTPS, SFTP, DNS, SNMP, SSL/TLS, NTCIP
I/O ports	12-pin (External Illuminator, UART, GPIO, USB, RS232)
In-built laser trigger	8 mRad point laser
Laser wavelength & safety class	905 nm CLASS 1 (60825-1 2014)

### Electrical Data

Power requirement	24 - 28 V AC*; min. 2.5A
Typical power consumption	18 W
	*36 V DC when a common ground is used with external illuminator

### Mechanical Data

Operating temperature*	-45°C - +70°C (-49°F - +158°F)
IP & IK rating	IP67, IK10 (additional accessory component required)
Dimensions with bracket (LxWxH)	298 x 158 x 377 mm / 11.73" x 6.22" x 14.84"
Weight	5.3 kg / 11.68 lbs
In the box	Camera, bracket, shield



### Accessories

M12 power cable, Ethernet cable, Junction Box, External IR-light, External GPS, I/O cable

### Certificate

Made in EU, NDAA compliant



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



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• dual motorized optics • high-performance 4-core OCR processor • built-in laser trigger • up to 120 FPS  
• 850 nm IR illumination • spectacular night-time performance • natively GDS-ready

**3-year warranty**  
**Made in EU**

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