

AutoSense 618



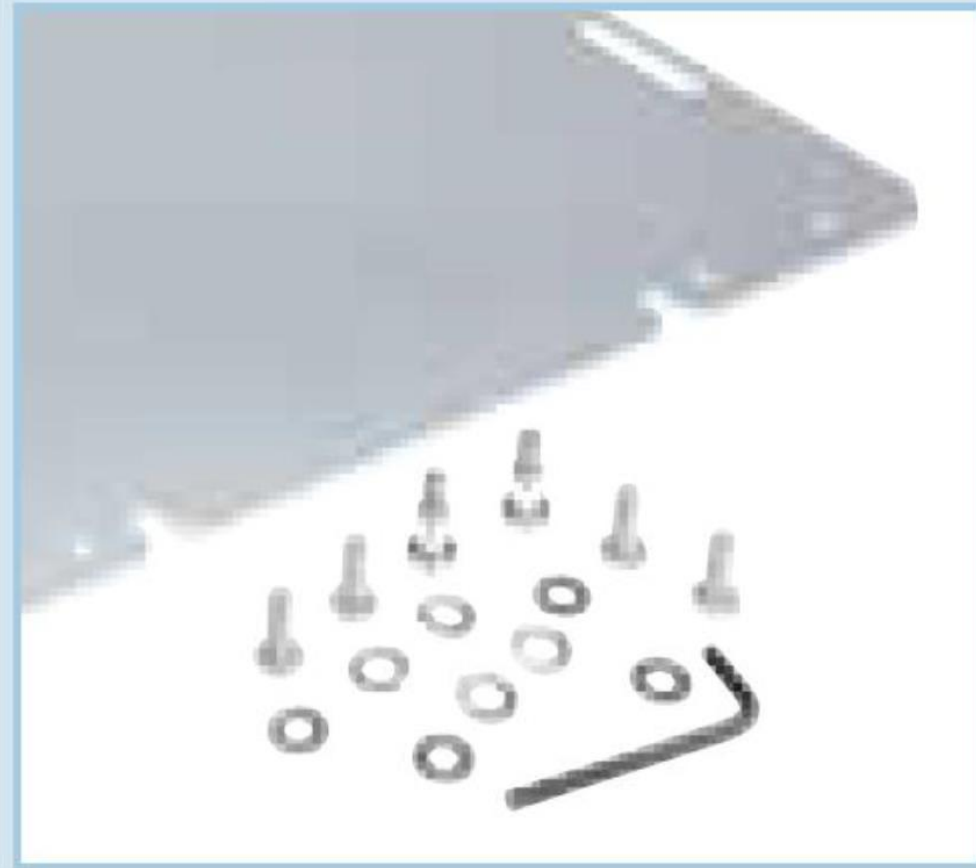
Like its predecessor, the AutoSense II, the **AS 618** is designed to be mounted overhead in order to provide tolling and traffic management agencies with vehicle detection, separation, speed, and classification information. In addition, the AS 618 can be configured to trigger enforcement cameras.

The **AS 618** operates by emitting two laser fields beneath the sensor to scan both the roadway and the vehicles passing through the eye-safe laser. The system can be configured for open road or toll barrier applications and is sensitive enough to detect tow bars and motorcycles. Classification is determined by the vehicle's dimensional characteristics as well as detection of tow bars.

Single Lane / Multi Lane – Overhead Vehicle Detection, Separation and Classification

The **AS 618** is an ideal replacement for both light curtains and magnetic loops in barrier lane applications. In addition, when deployed in open road applications, the AS618 provides full vehicle classification information, either independently or in concert with other sensors, in order to ensure appropriate application of toll rates.

Accessories



Mounting Kit¹
19471022-9



Power Cable^{2,3}
9291011-9-XYZ
(for AE618-UDK-H)



Power Cable^{2,4}
9291111-9-XYZ
(for AE618-EDK-H)



Comms. Cable^{2,5}
9291021-9-XXX
(for RS-422)



Comms. Cable^{2,5}
9291020-9-XXX
(for Ethernet)



Beam Finder
9301000-9

Notes:

1. The Mounting Kit consists of a Mounting Plate (19476022-1) and Mounting Hardware (19471023-9)
2. Cables are offered in lengths of 50 ft, 100 ft, 125 ft, 150 ft and 200 ft. Part no. for e.g. 150 ft Power Cable becomes: 9291011-9-150
3. This cable is equipped with the PW06P12-3S connector
4. This cable is equipped with the PW06P12-3SY connector
5. This cable is equipped with the PW06P12-10S connector
6. Replacement Sponge for the Surge Suppressor is part no. 22NX

AutoSense – Scan rate matters!

AutoSense technology

The highly dynamic toll operation environment continues to demand very precise data collection systems which are flexible, upgradable, and able to work in tandem with legacy elements as well. With millions in revenue on the line every day, **AutoSense** delivers the level of precision and functionality you require.

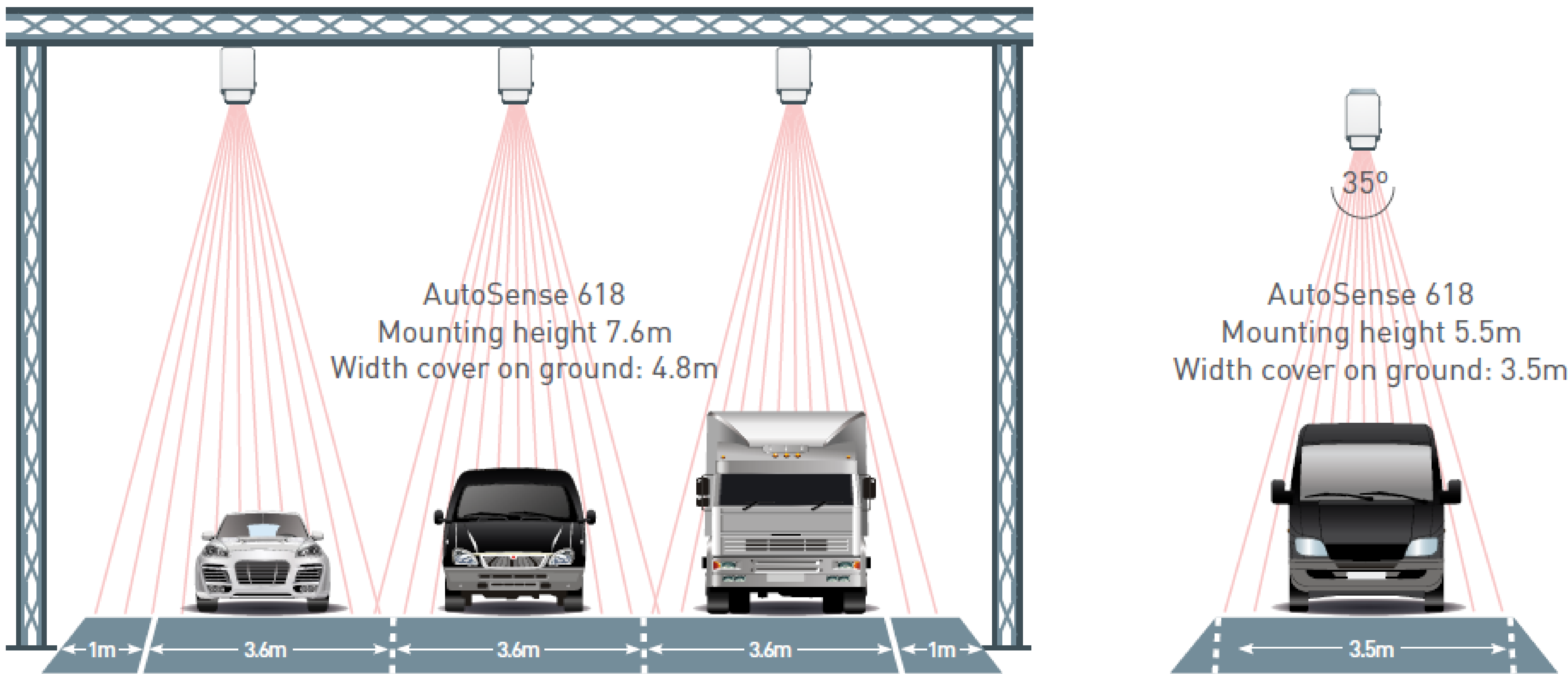
AutoSense products are developed to provide a highly sophisticated, noninvasive solution to track and analyze traffic across a wide range of applications, including toll collection, traffic flow analysis, bridge/tunnel clearance verification, weight-in motion, as well as traffic control and surveillance.

AutoSense products are also commonly used as highly accurate trigger sensors for enforcement cameras.

Concessionaires that employ **AutoSense** have realized substantially lower life cycle costs when compared to other technologies, due to ease of maintenance, extreme reliability and all-weather performance with advanced Multi-Pulse™ Logic.

Today, more than 5000 units are in the field, providing extremely accurate information via patented, eye-safe laser scanning technology that continuously self-tests to feature **vehicle detection accuracy exceeding 99%**.

AutoSense technology features unique **continuous line pixel technology** that allows accurate measurement of vehicle volumetric dimensions, vehicle speed and direction of travel.



Specifications

PERFORMANCE		AS618-UDK-H (120V)	AS618-EDK-H (240V)
Use, Single Lane		Single Lane - Open Road or Toll Barrier to achieve vehicle detection, separation, classification and camera trigger	
Use, MultiLane		Multi Lane - Open Road to achieve vehicle detection, separation, classification and camera trigger when integrated with additional AS618's	
Typical mounting location		Overhead: 16.5 Ft – 25 Ft	Overhead: 5.5 – 7.6m
Field of View		35 degrees	
Angular resolution		1 degree	
Scan rate		360 scans per second per beam	
Vehicle Classification Categories		11 standard, plus 20 user-definable categories	
Vehicle Detection Accuracy		>99% (ORT)	
Vehicle Classification Accuracy		>95% (into 6 vehicle classes)	
Vehicle Speed Accuracy		± 10% (Under assumption of constant speed during passing of entire vehicle under scanner)	
Vehicle Length Accuracy		± 10% (Under assumption of constant speed during passing of entire vehicle under scanner)	
Vehicle Height Accuracy		± 0.5 inches Max	± 12.7 mm Max
PHYSICAL			
Power Input		90-140 V, 50-60 Hz, 1.5 A	200-264 V, 50-60 Hz, 1.0 A
Power Consumption		35 W nominal, 157W maximum	
Dimensions (L x W x H)		17.9 x 9.6 x 6.1 inches	455 x 244 x 155 mm
Weight		20.5 pounds	9.3 kg
DATA INTERFACE			
Ethernet		TCP/IP 10/100 Mbps	
RS-422		19.2, 38.4, 57.6 Kbaud (User selectable), 8 data bits, 1 start, 1 stop, no parity	
ENVIRONMENTAL			
Temperature (with sun loading)		-40 to +160 degrees F	-40 to +70 degrees C
Thermal Shock		60 degrees F/minute	15.5 °C/minute
Humidity		0 to 100% condensing	
Rain		0.8 inches/hour operating, 4 inches/hour maximum	20 mm/hour operating, 100 mm/hour maximum
Snow Loading		20 lb./ft2	98 kg/m ²
Wind Loading		43 knots steady, 73 knots gusts	22 m/s steady, 37 m/s gusts
Reliability (MTBF)		>35,000 hours	
Maintainability		15 minutes (Mean Time to Replace)	
ACCESSORIES			
Mounting Kit		19471022-9	
Power Cable		9291011-9-XYZ (XYZ = 50ft, 100ft, 150ft, 200ft or 250ft)	9291111-9-XYZ (XYZ = 15m, 30m, 45m, 60m or 75m)
Power Cable Connector		PW06P12-3S	PW06P12-3SY
Communications Cable (RS-422)		9291021-9-XYZ (XYZ = 50ft, 100ft, 150ft, 200ft or 250ft)	9291021-9-XYZ (XYZ = 15m, 30m, 45m, 60m or 75m)
Communications Cable (Ethernet)		9291020-9-XYZ (XYZ = 50ft, 100ft, 150ft, 200ft or 250ft)	9291020-9-XYZ (XYZ = 15m, 30m, 45m, 60m or 75m)
Communications Cable Connector		PW06P12-10S	
Surge Suppressor (RS-422)		81000143-9	
Beam Finder		9301000-9	

Standards and Certifications

• IEC 60825-1 2007 (Class 1 Laser product) • UL 60950-1:2007 ED:2 • IEC 60950-1:2005 ED:2 • CAN/CSA C22.2 • 21 CFR 1040.10 & 1040.11

This product is manufactured in a facility certified to • AS9100B / ISO 9001:2008 • US Patent 5,546,188

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