

Gocator® 2375

HIGH-SPEED ROAD & RUT SCANNING

Gocator 2375 sensors deliver high-density transverse road profiles for rut measurements regardless of outdoor conditions and pavement geometry. Networked Gocator 2375 systems scan roads at highway speeds and provide superior ambient light handling.

- » EASILY CREATE A SENSOR NETWORK TO SCAN LANES UP TO 4.2 m WIDE
- » OPERATE RELIABLY DAY AND NIGHT
- » EASY SETUP & CONTROL VIA WEB BROWSER OR SDK
- » LIGHTWEIGHT (<1.5 kg per sensor)



Gocator 2375

BUILT ON ROLINE SUCCESS

Built on the success of the industry-standard RoLine sensor technology, the Gocator 2375 can easily integrate into existing systems with full profile output over Ethernet.

HIGH SPEED, ACCURATE AND WIDE SCAN WIDTH

Scan up to 2000 Hz (-15 mm interval at 110 km/h) with 9600 points across a 4.2 m scan width using a network of sensors.

VEHICLE CHOICES AND SAFETY

Low mounting height (< 1 m) and vertical projection minimizes laser safety hazards.

SCALABLE AND COST EFFECTIVE

Cover different lane widths by networking up to 24 sensors using LMI master hubs. Masters take care of power, distribution, laser safety interlock and microsecond synchronization.



Gocator's built-in web server firmware.

INTENSITY OUTPUT

An intensity output is provided at each point for aligning transverse profiles relative to lane markers.

COMPACT & LIGHTWEIGHT

A full 8 sensor system can mount onto a 2.4 m wide vehicle and weighs under 12 kg.

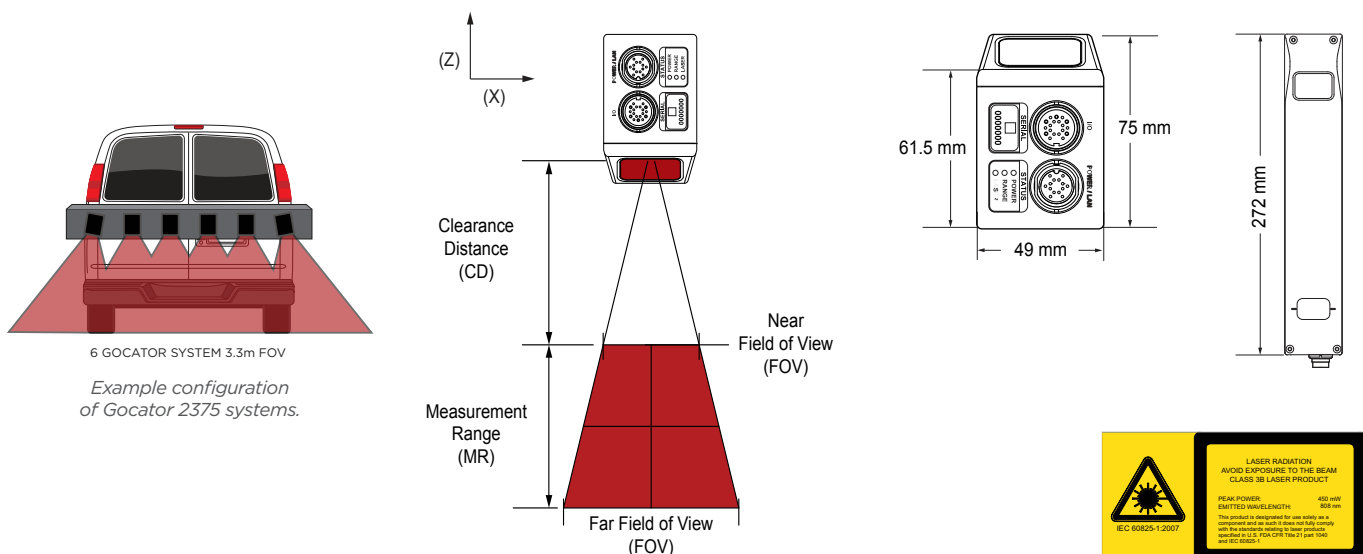
GOCATOR 2375-3B-N-11

Point per Profile	1280
Linearity Z (+/- % of MR)	0.05
Resolution Z (mm)	0.154 - 0.35
Resolution X (mm) (Profile Data Interval)	0.27 - 0.80
Clearance Distance (CD) (mm)	650
Measurement Range (MR) (mm)	1350
Field of View (FOV) (mm)	345 - 1028
Laser Class	3B, 808 nm (Near Infrared)
Dimensions (mm)	Top Mount 49x75x272
Weight (kg)	1.3
Scan Rate	Up to 5 kHz
Interface	Gigabit Ethernet
Inputs	Differential Encoder, Laser Safety Enable, Trigger
Outputs	2x Digital Output, 1x RS-485 Serial, 1x Analog Output (4-20 mA)
Input Voltage (Power)	+48 VDC (20 Watts); Ripple +/- 10%
Housing	Gasketed aluminum enclosure, IP67
Operating Temperature	0 to 50°C
Storage Temperature	-30 to 70°C
Vibration Resistance	10 to 55 Hz, 1.5 mm double amplitude in X, Y and Z directions, 2 hours per direction
Shock Resistance	15 g, half sine wave, 11 ms, positive and negative for X, Y and Z directions
Scanning Software	Browser-based GUI and open source SDK for configuration and real-time 3D visualization. Open source SDK, native drivers, and industrial protocols for integration with user applications, third-party image processing applications, and PLCs.

EXAMPLE CONFIGURATION (8 Gocator system 4.2 m FOV)

Scan Rate	1200 Hz - 5 kHz (VGA mode), 700 Hz - 5 kHz (Full resolution)
Field of View (FOV)	4.2 m with 8 sensors
Points Per Profile (8 sensors)	Up to 9600
Resolution (X) (with 200 mm measurement range) (mm)	0.323 - 0.642
Resolution (Z) (with 200 mm measurement range) (mm)	0.195 - 0.399
Measurement Range (mm)	Typical 200, up to 780

Optical models, laser classes, and packages can be customized. Contact LMI for more details. Specifications stated are based on standard laser classes. Linearity Z, Resolution Z, and Repeatability Z may vary for other laser classes. Refer to specifications in the Gocator Line Profile Sensor user manual for more details.



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