



LMI TECHNOLOGIES

Gocator 2342

HIGH-SPEED ROAD ROUGHNESS SCANNING

Measure pavement roughness and ride quality at highway speed, regardless of outdoor conditions and pavement geometry.

Incorporating the success of the RoLine technology, the Gocator 2342 delivers high-density road profile scanning for roughness measurement with superior ambient light handling.

- **ROLINE TECHNOLOGY INSIDE**
- **HIGH SPEED & LOW LATENCY**
- **WIDE PROFILE SCAN WIDTH**
- **IDEAL FOR ALL PAVEMENT TYPES**



Gocator 2342

PROVIDES ACCURATE DATA UNDER ALL CONDITIONS

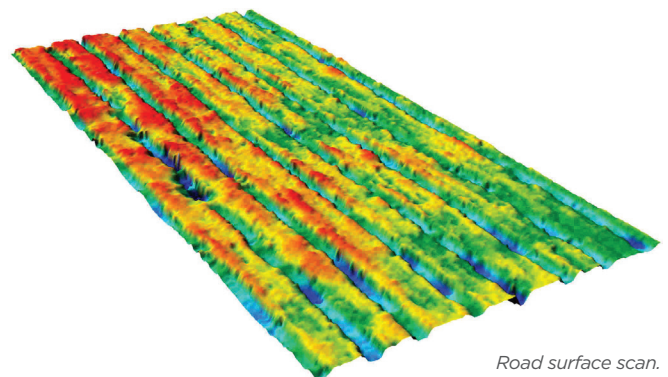
Industrially designed for the rugged needs of open road inspection, Gocator provides accurate data under all conditions and on all pavement types, including tined, grooved, or diamond-ground concrete and asphalt.

BUILT ON ROLINE'S SUCCESS

Gocator 2342 builds on the success of the industry - standard RoLine sensor technology and further improves performance by leveraging the flexibility of Gocator. Integrate into existing systems with selectable output modes; full profile over Ethernet, bridged single value, or Selcom Serial Interface.

HIGH SPEED, ACCURATE AND WIDE SCAN WIDTH

High speed, 5 kHz maximum profile output with scan width of 140 mm. By acquiring data from a wide area, measurement accuracy is far superior than results achievable by single point sensors



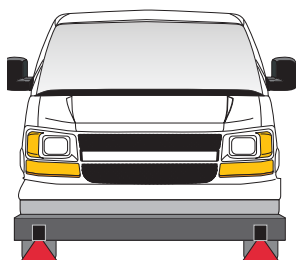
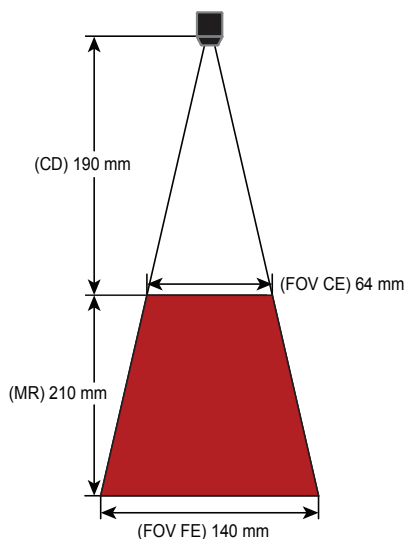
Road surface scan.

ALL-IN-ONE WITH SYNC

Single Gocator 2342 sensors require no additional controllers or PCs. External sync pulse output synchronizes profile data to external accelerometers with microsecond precision.

COMPACT & LIGHT WEIGHT

Gocator's small footprint and 0.94 kg weight make it ideal for fitting into tight spaces and mounting onto vehicles.



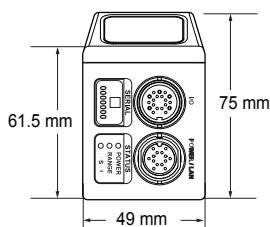
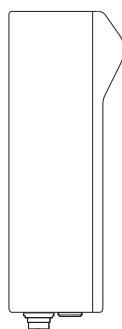
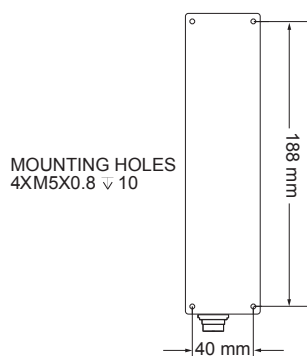
A Gocator 2342 system
with two sensors

GOCATOR 2342 SPECIFICATIONS

Model	Gocator 2342-3B-12
Scan Rate	Up to 5000 Hz
Field of View (FOV)	64 mm - 140 mm
Points per Profile	1280
Resolution (X)	0.095 mm - 0.170 mm
Resolution (Z)	0.015 mm - 0.040 mm
Linearity (Z)	0.01% of MR
Clearance Distance (CD)	190 mm
Measurement Range (MR)	210 mm
Laser Class	Visible 3B (<500 mW)
Interface	Gigabit Ethernet
Inputs	Differential Encoder Input, Laser Safety Enable, Trigger
Outputs	2x Digital output, 1x RS-485 Serial, 1x Selcom Serial, 1x Analog Output (4 - 20 mA)
Input Voltage (Power)	+24 to +48 VDC (13 Watts); RIPPLE +/- 10%
Laser Profiler Dimensions	49 mm x 75 mm x 197 mm
Weight	0.94 kg
Housing	Gasketed aluminum enclosure, IP67
Operating Temperature	0°C to +50°C
Storage Temperature	-30°C 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 in X, Y and Z directions

DEFAULT CONFIGURATION (RoLine Mode)

Scan Rate	3000 Hz
Points Per Profile	640
Resolution (X)	0.380 mm - 0.680 mm
Resolution (Z)	0.026 mm - 0.074 mm



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