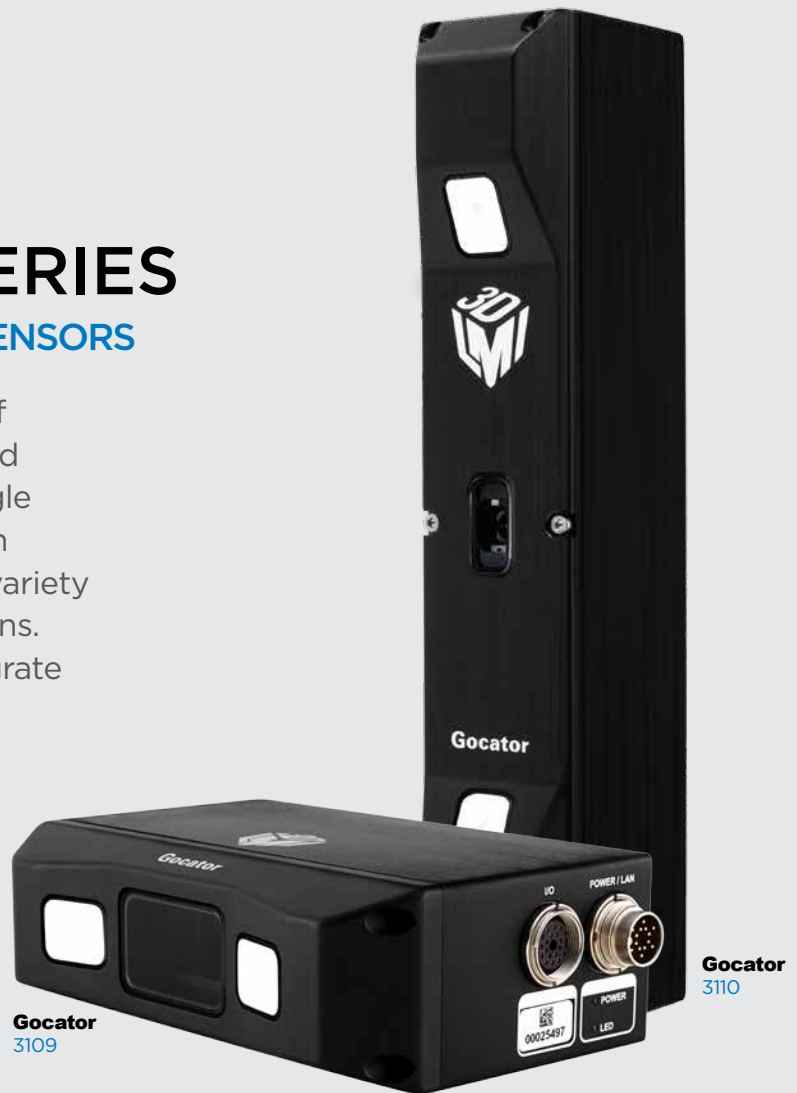


Gocator 3100 SERIES

ALL-IN-ONE 3D SMART SNAPSHOT SENSORS

The Gocator 3100 series is the first family of 3D smart sensors to combine 3D point cloud acquisition and measurement tools in a single industrial package. With a rich set of built-in tools, Gocator sensors are ideal for a wide variety of non-contact, in-line inspection applications. Gocators are simple to setup, quick to integrate and highly reliable.

- CAPTURE 3D POINT CLOUDS IN A SINGLE SNAPSHOT
- FAST SCAN CYCLES (up to 5Hz)
- EXTREMELY ACCURATE 3D MEASUREMENT WITH BLUE LIGHT PROJECTION
- BUILT-IN 3D MEASUREMENT TOOLS



FAST AND ACCURATE

The Gocator 3100 series performs high-resolution non-contact measurement at up to 5Hz. These sensors are ideal for dimensional measurement of many features such as holes, slots, studs, gap and flush.

STANDALONE OR NETWORKED

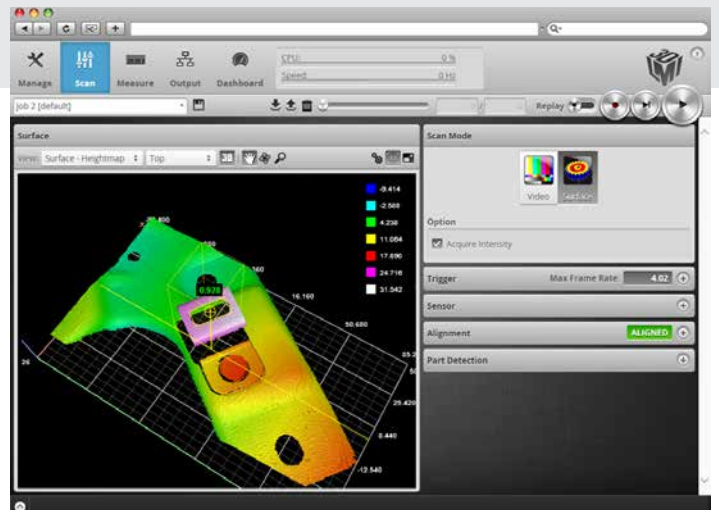
Single sensors require no additional controllers or PCs to produce 3D measurements. Synchronize multiple sensors in the same network to expand your sensors field of view using a LMI Master.

RELIABLE AND REPEATABLE DATA

Structured blue light and stereo scanning technology add extra levels of ambient light immunity; producing reliable data even in challenging lighting conditions.

RUGGED, COMPACT, AND LIGHT WEIGHT

Gocator's IP67 housing, small form factor, and less than 1.5kg weight make it ideal for fitting into small spaces and mounting on robots.



Gocator's browser-based graphical user interface

EASY TO USE

Gocator's built-in GUI provides users with an intuitive setup experience, using any web browser, computer or operating system. With no additional software to install, Gocator can work with any computer and operating system.

| Model | 3109 | 3110 |
|------------------------------|-------------------------------|-------------------------------|
| Clearance Distance (CD) (mm) | 157 | 150 |
| Measurement Range (MR) (mm) | 70 | 100 |
| Field of View (mm) | 67 x 86 - 93 x 88 | 60 x 105 - 90 x 160 |
| Linearity Z (+/- % of MR) | 0.038 | 0.050 |
| Resolution Z (mm) | 0.023 - 0.044 | 0.035 - 0.108 |
| Resolution XY (mm) | 0.065 x 0.071 - 0.091 x 0.092 | 0.090 x 0.100 - 0.150 x 0.160 |
| Dimensions (mm) | 49 x 100 x 155 | 49 x 74.4 x 276 |
| Weight (kg) | 1.04 | 1.35 |

Linearity Z values and Resolution Z are typical values.
 Field of View and Resolution XY are specified as [X] x [Y], near to far.
 Refer to specifications in the Gocator 3100 Series user manual for more details.

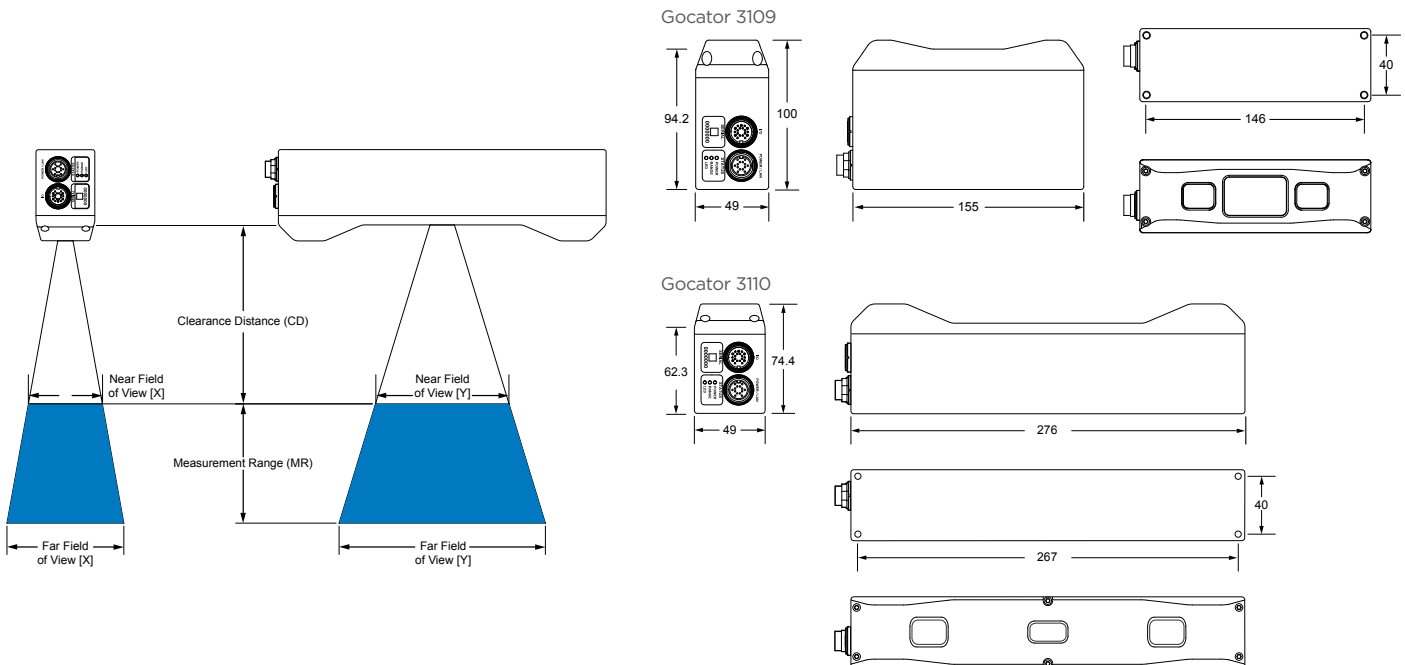
All 3100 Series Models

| | |
|-----------------------|--|
| Scan Rate | Up to 5 Hz |
| Light Source | Blue LED (465 nm) |
| Interface | Gigabit Ethernet |
| Inputs | Differential Encoder, Light Safety Enable, Trigger |
| Outputs | 2x Digital Output, RS485 Serial (115 kbaud), 1x Analog Output (4 - 20 mA) |
| Input Voltage (Power) | +24 to +48 VDC (25 Watts); RIPPLE +/- 10% |
| Housing | Gasketed Aluminium Enclosure, IP67 |
| Operating Temp | 0 to 50 °C |
| Storage Temp | -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 |

Software and Built-in 3D Measurement Tools

| | |
|----------------------|--|
| 3D Feature Tools | Openings (holes, slots), Cylinders, Studs (threaded and non-threaded), Plane |
| 3D Volumetric Tools | Volumes, Areas, Bounding boxes, Positions (min, max, centroid), Ellipses, Orientations |
| Measurement Accuracy | +/- 50 um |
| 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. |

Differential Encoder requires the use of Master 400/800/1200/2400.



AMERICAS
 LMI Technologies Inc.
 Delta, BC, Canada

EMEAR
 LMI Technologies GmbH
 Teltow/Berlin, Germany

ASIA PACIFIC
 LMI (Shanghai) Trading Co., Ltd.
 Shanghai, China



LMI Technologies has offices worldwide. All contact information is listed at lmi3d.com/contact/locations