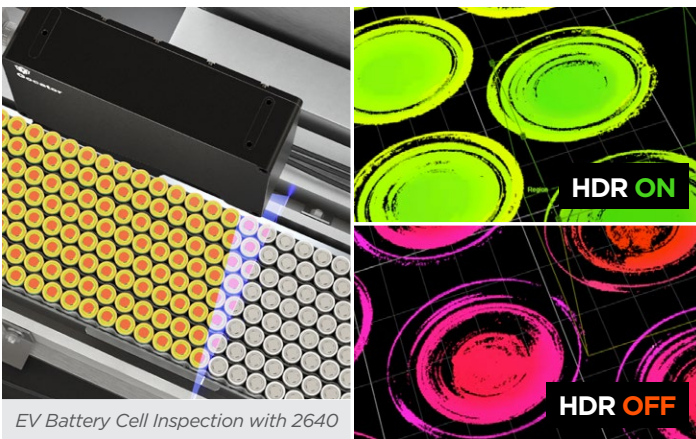
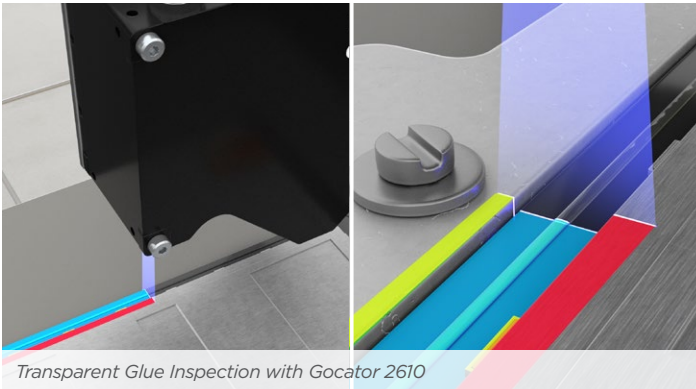


# Gocator® 2600 Series

## 3D SMART LASER LINE PROFILE SENSORS



The remastered Gocator 2600 Series has been optimized for faster default scan speeds, enhanced data quality, increased scanning versatility, and higher 4K+ resolutions.

This remastered sensor lineup can be used to inspect a wide variety of targets from small parts in EV Battery, Consumer Electronics, and Semiconductor manufacturing, to larger coverage applications in Food Processing, Building Materials, Automotive, Rubber & Tire, and general factory automation.

- 9-Megapixel Imager
- Up to 4192 Points per Profile for High-Resolution Measurement and Inspection
- X Resolutions Up to 2.5 Microns
- Z Repeatability up to 0.2 Microns
- Fields of View Up to 2 m (at 0.55 mm X Resolution)
- On-Sensor Measurement Tools and I/O Connectivity
- Native Multi-Sensor Alignment and Networking Support



### HIGHER 4K+ RESOLUTION

The new **Gocator 2610** model generates profile and surface data at up to 2.5 microns X resolution for in-line dimensional measurement and microscopic surface defect detection on small parts such as semiconductor Ball Grid Arrays (BGAs). The new **Gocator 2618** model achieves 5 micron X resolution at 20 millimeters field of view for specialized EV Battery applications such as pre-weld seam gap & flush measurement.

### HIGH DYNAMIC RANGE MODE

The new **High Dynamic Range (HDR) Mode** improves scan quality on challenging targets that previously were susceptible to over or underexposed features (e.g. highly reflective metallic surfaces and objects with a variety of materials and finishes). Targets that previously required multiple exposures to scan challenging features may now be captured with a single exposure and faster cycle time.

### FASTER DEFAULT SCAN SPEED

The Gocator 2600 Series has been optimized to provide higher default scan speeds. Existing job files will retain their original configuration and scan speeds.

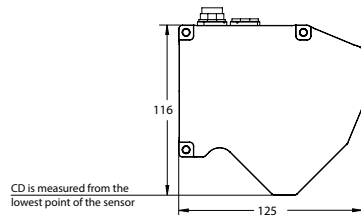
### ENHANCED DATA QUALITY AND SCANNING VERSATILITY

The Gocator 2600 Series has been optimized for surface flatness with a pre-processing pipeline to reduce spatial noise. This allows users to more accurately locate, measure, and identify features on a variety of targets and applications. The new **Gocator 2629** model delivers optimal speed and data quality over a large (>70 mm) field of view. Scan larger CE targets in a single pass with a single sensor, with sufficient optical performance for challenging inspection requirements such as verifying placement of thin adhesives.

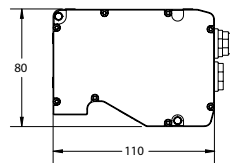
2600 SERIES MODELS	2610	2618	2629	2630	2640	2650	2670	2690
Data Points / Profile	4192	4192	4192	4192	4192	4192	4192	3700
Scan Rate (Hz) *	1100 - 9000	700 - 10000	2500 - 9000	600 - 9000	600 - 9000	600 - 9000	600 - 9000	900 - 10000
Resolution X (µm) (Profile Data Interval)	2.5	5.0 - 5.4	18 - 23	18 - 33	28 - 46	47 - 104	67 - 197	124 - 550
Linearity Z (+/- % of MR) **	0.015	0.015	0.03	0.03	0.04	0.04	0.05	0.08
Repeatability Z (µm) **	0.22	0.38	0.30	0.30	1.00	2.70	10.00	12.00
Clearance Distance (CD) (mm)	19.5	44.5	110	110	170	330	495	325
Measurement Range (MR) (mm)	5.0	12	45	130	190	475	1060	1550
Field of View (FOV) (mm)	10.2 - 10.8	20 - 23	71 - 93	71 - 135	105 - 198	190 - 430	272 - 817	385 - 2000
Laser Class	2, 3R, 3B (blue, 405 nm)	3R, 3B (blue, 405 nm)	2, 3R, 3B (red, 660 nm; blue, 405 nm)	2, 3R, 3B (red, 660 nm; blue, 405 nm)	2, 3R, 3B (red, 660 nm; blue, 405 nm)	2, 3R, 3B (blue, 405 nm)	2, 3R, 3B (blue, 405 nm)	2, 3R (red, 660 nm)
Dimensions (mm)	50 x 116 x 125	46 x 80 x 110	55 x 105 x 165	55 x 105 x 165	55 x 105 x 195	55 x 105 x 280	55 x 105 x 280	55 x 105 x 280
Protective cover ***	-	-	●	●	●	●	●	●
Weight (kg)	0.9	0.65	1.34	1.34	1.48	2.12	2.12	2.12

### ALL 2600 SERIES MODELS

Interface	Gigabit Ethernet	<p>* <b>Speed Ranges</b> are from default configuration (full field-of-view and full measurement range) to high speed configuration (reduced field-of-view and measurement range, uniform spacing disabled, optimized data spacing and output, acceleration enabled).</p> <p>** These results are achieved with LMI standard target and optimized sensor configuration.</p> <p>*** <b>Protective Covers</b> are now available for specific G2 sensor models. The cover protects the sensor's camera and laser windows from scratching caused by dust, debris, and cleaning.</p>
Inputs	Differential Encoder, Laser Safety Enable, Trigger	
Outputs	2x Digital output, RS-485 Serial (115 kBaud)	
Factory Communication	PROFINET, Modbus, EtherNet/IP, ASCII, Gocator	
Input Voltage (Power)	+24 to +48 (15 Watts); Ripple +/- 10%	
Housing	Gasketed metal enclosure, IP67	
Operating Temperature	0 to 50°C (Gocator 2610: 0 to 40°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, robots, and PLCs.	



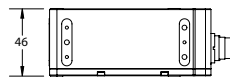
2610



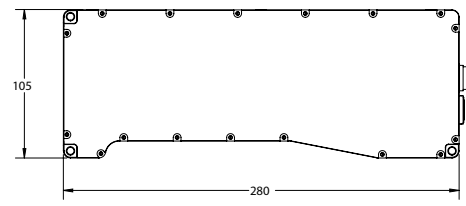
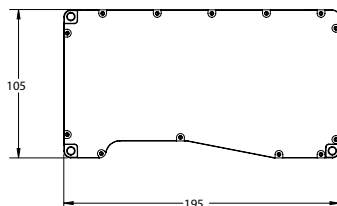
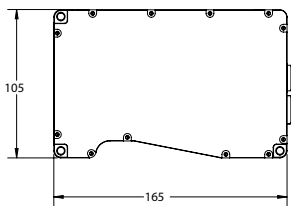
2618



2629, 2630



2640



2650, 2670, 2690

