Датчики профиля лазерной линии Gocator

Технические характеристики

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Gocator 2100 Series

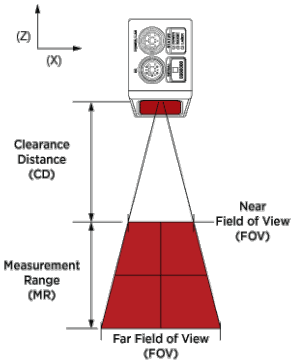
OVERVIEW

Entry-Level 3D Laser Line Profile Sensors

Use Gocator® 2100 for cost-effective inline quality inspection applications where the highest resolution is not required.

- VGA imager. 640 points per profile resolution
- Field-of-view up to 1260 mm
- Measurement range up to 1350 mm

TECHNICAL SPECIFICATION

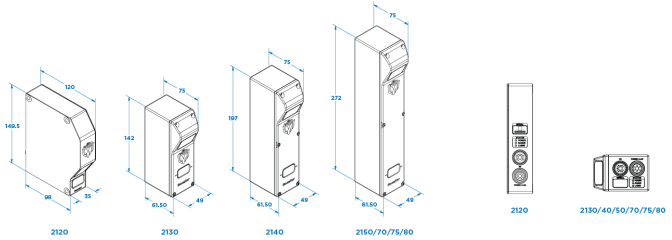


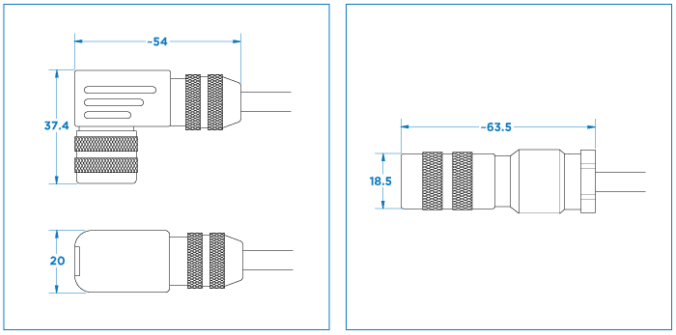
Model	2120	2130	2140	2150	2170	2175	2180
Resolution X (mm)	0.028	0.088	0.19	0.3	0.55	0.51	0.75
Resolution Z (mm)	0.0018	0.006	0.013	0.019	0.055	0.175	0.092
Field of View (mm)	18 – 26	47 – 85	96 – 194	158 – 365	308 – 687	324 – 1010	390 – 1260
Clearance Distance (mm)	40	90	190	300	400	650	350
Measurement Range (mm)	25	80	210	400	500	1350	800

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.

Mechanicals:





90 Degree Connector / Straight Connector

Gocator 2300 Series

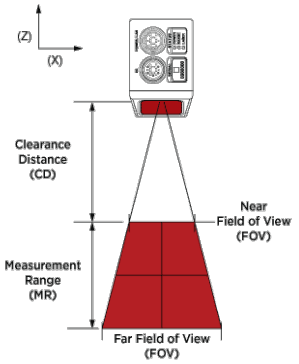
OVERVIEW

Workhorse 3D Laser Line Profile Sensors

Gocator 2300 sensors deliver robust 3D inspection across a wide range of high-speed, high-volume applications.

- Megapixel imager. 1280 points per profile resolution
- Field-of-view up to 1260 mm
- Measurement range up to 800 mm

TECHNICAL SPECIFICATION

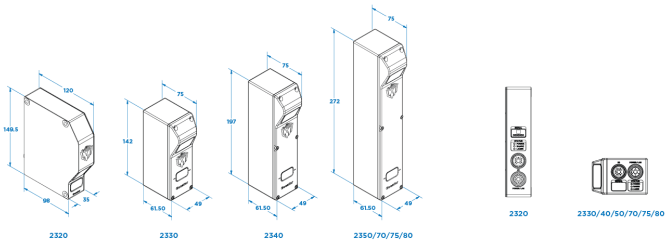


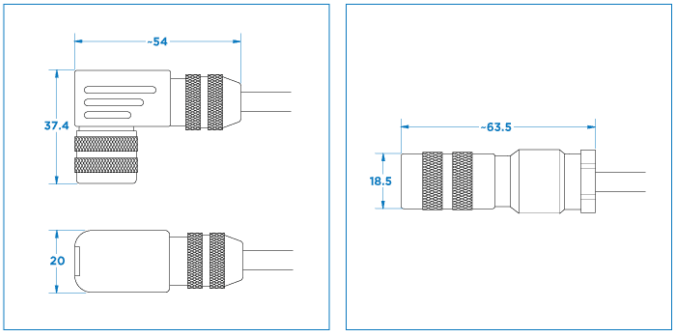
Model	2320	2330	2340	2350	2370	2375	2380
Resolution X (mm)	0.014	0.044	0.095	0.150	0.275	0.255	0.375
Resolution Z (mm)	0.0018	0.006	0.013	0.019	0.055	0.175	0.092
Field of View (mm)	18 – 26	47 – 85	96 – 194	158 – 365	308 – 687	324 – 1010	390 – 1260
Clearance Distance (mm)	40	90	190	300	400	650	350
Measurement Range (mm)	25	80	210	400	500	1350	800

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.

Mechanicals:





90 Degree Connector / Straight Connector

Gocator 2400 Series

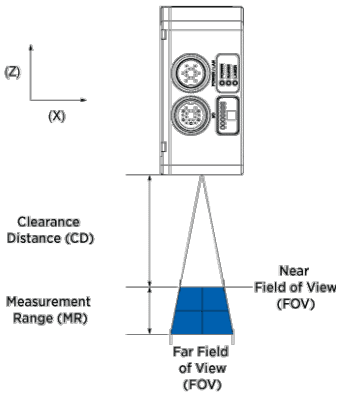
OVERVIEW

High-Resolution 3D Laser Line Profile Sensors

Gocator 2400 sensors are designed for 100% inspection of difficult targets such as microphotographs on small electronic parts and dark materials such as tire treads/sidewalls and rubber sheets in high-speed in-line applications.

- 2 megapixel imager. Up to 1940 dots per profile resolution
- Up to 2000 mm field of view (FOV)
- Measuring range up to 1525 mm
- Available in RED and BLUE laser models for optimal performance and maximum flexibility in your scanning applications

TECHNICAL SPECIFICATION

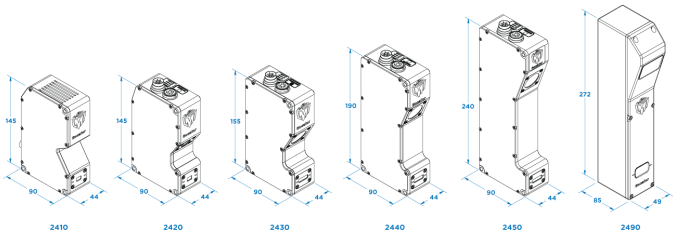


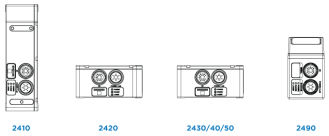
Model	2410	2420	2430	2440	2450	2490
Data Points/Profile	1710	1940	1500	1500	1800	1920
Resolution X (mm)	0.0058	0.014	0.037	0.090	0.100	0.250
Resolution Z (mm)	0.0002	0.0004	0.0008	0.0012	0.002	0.012
Field of View (mm)	10	27 – 32	47 – 85	96 – 194	145 – 425	390 – 2000
Clearance Distance (mm)	19.0	60.0	75	183	270	350
Measurement Range (mm)	6	25	80	210	550	1525
Laser	Blue	Blue	Red/Blue	Red/Blue	Blue	Red

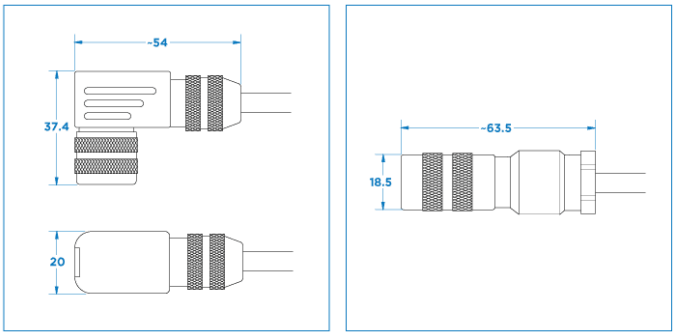
Scanning Software:

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.

Mechanicals:







90 Degree Connector / Straight Connector

Gocator 2500 Series

OVERVIEW

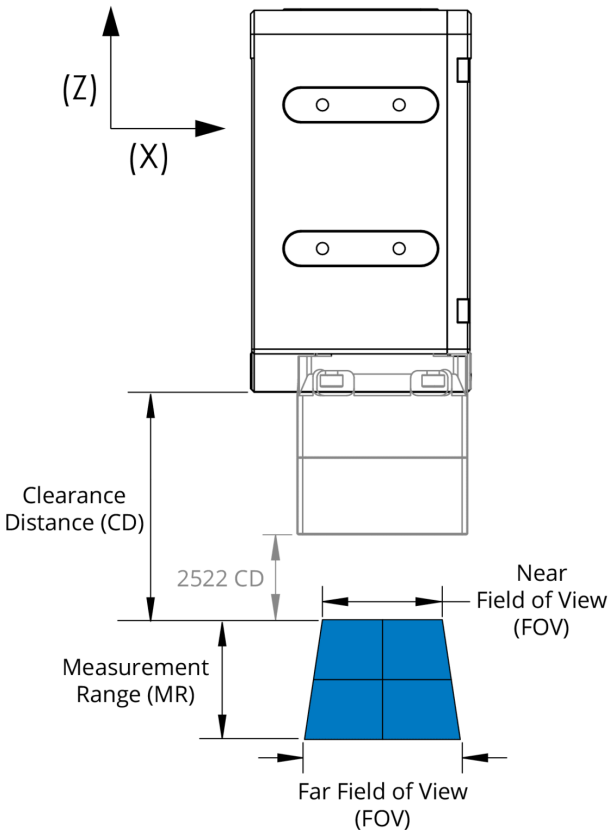
High-Speed 3D Blue Laser Line Profile Sensors

The 2500 series are high-speed 3D laser line profile sensors in the most compact and advanced Gocator® design yet. These sensors achieve inspection speeds up to 10 kHz—including scan, built-in 3D surface measurement, and pass/fail control—to meet inline production speed.

- Blue laser + custom optics for optimal performance on dark and specular targets
- IIoT-ready with built-in web server, configure with any web browser
- Built-in tools for 3D alignment, part segmentation, and 3D feature extraction
- Native support for multi-sensor networking

TECHNICAL SPECIFICATION

Model	2510	2512	2520	2522	2530	2540	2550
Data Points/Profile	1920	1920	1920	1920	1920	1920	1920
Scan Rate (Hz) *	2400-20000	2400-20000	1600-20000	1600-20000	2000-20000	1700-20000	1800-20000
Resolution X (mm)	0.008	0.008	0.013 – 0.017	0.013 – 0.017	0.028 – 0.054	0.064 – 0.16	0.08 – 0.27
Repeatability Z (µm) **	0.2	0.2	0.4	0.4	0.5	1.2	2.0
Field of View (mm)	13.0 – 14.5 (diffuse)	13.0 – 14.5 (diffuse & specular)	25.0 – 32.5 (diffuse) 25.0 (specular)	25.0 – 32.5 (specular)	48 – 100 (diffuse)	120.0 – 292.0 (diffuse)	154.0 – 518.0 (diffuse)
Clearance Distance (mm)	17.0	17.0	47.5	17.75	40.0	152	216
Measurement Range (mm)	6	6	25	25	80	295	595
Laser	2 (Blue, 405nm)	2 (Blue, 405nm)	2 (Blue, 405nm)	2 (Blue, 405nm)	2 (Blue, 405nm)	2, 3R, 3B (Blue, 405nm)	2, 3R, 3B (Blue, 405nm)
Protective Cover ***	–	–	–	–	–	yes	yes

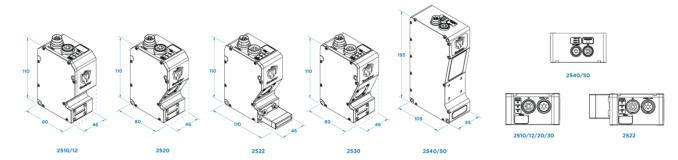


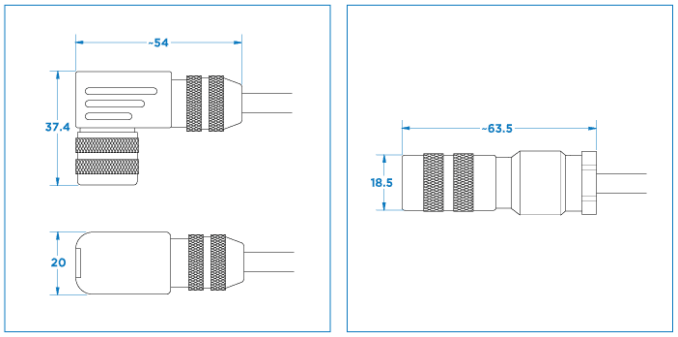
Scanning Software:

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.

- Speed ranges 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).
- These results are achieved with LMI standard target and optimized sensor configuration.
- Protective Covers 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.

Mechanicals:





90 Degree Connector / Straight Connector

Gocator 2600 Series

OVERVIEW

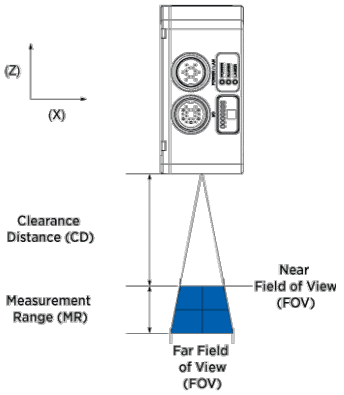
Smart 3D Laser Line Profilers

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

- 9-megapixel Imager
- Up to 4192 Points Per Profile for High-resolution 3D Measurement and Inspection
- X Resolutions Up to 0.0025 mm
- 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

TECHNICAL SPECIFICATION

Model	NEW! 2610	NEW! 2618	NEW! 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)	2.5	5.0-5.4	18-23	18 – 33	28 – 46	47 – 104	67 – 197	124 – 550
Repeatability Z (µm) **	0.22	0.38	0.30	0.30	1.00	2.70	10.00	12.00
Clearance Distance (mm)	19.4	44.5	110	110	170	330	495	325
Measurement Range (mm)	5.0	12	45	130	190	475	1060	1550
Field of View (mm)	10.2-10.8	20-23	71-93	71 – 135	105 – 198	190 – 430	272 – 817	385 – 2000
Weight (kg)	0.9	0.65	1.34	1.34	1.48	2.12	2.12	2.12
Laser	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Red
Protective Cover ***	–	–	yes	yes	yes	yes	yes	yes



Scanning Software:

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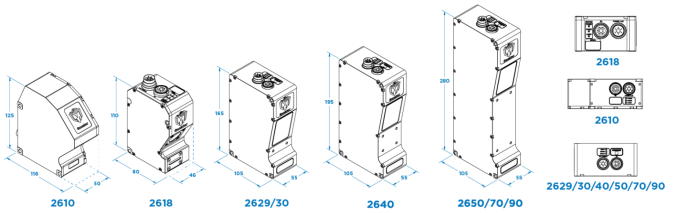
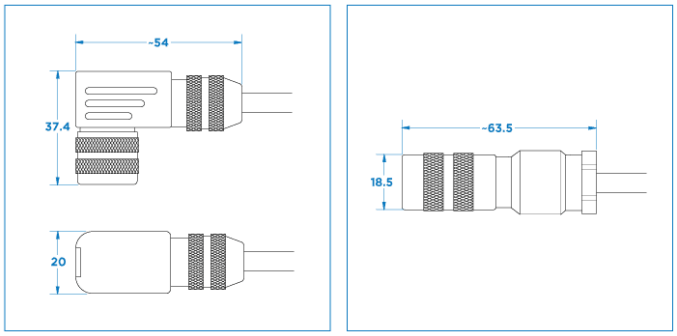
- Speed ranges are from default configuration (full field of view and full measurement range) to high-speed configuration (reduced field-of-view and measurement range, uniform spacing disabled, optimized data spacing and output, acceleration enabled).
- These results are achieved with LMI standard target and optimized sensor configuration.
- Protective Covers 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.

Mechanicals:





90 Degree Connector / Straight Connector

Gocator 2800 Series

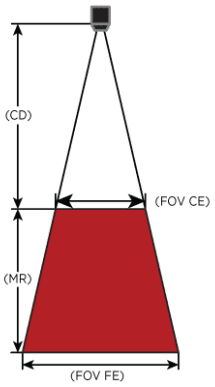
OVERVIEW

Dual Triangulation 3D Laser Line Profile Sensors

Two cameras maximize scan coverage and minimize occlusions for applications such as primary log scanning.

- Megapixel imager. 1280 points per profile resolution
- Field-of-view up to 1260 mm
- Measurement range up to 800 mm

TECHNICAL SPECIFICATION

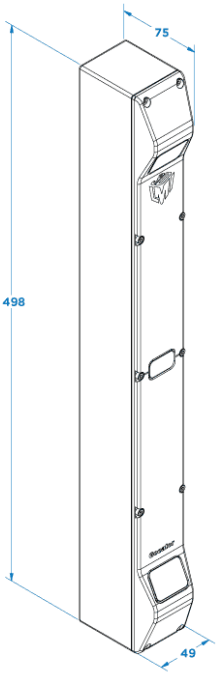


Model	2880
Resolution X (mm)	0.375
Resolution Z (mm)	0.092
Field of View (mm)	390 – 1260
Clearance Distance (mm)	350
Measurement Range (mm)	800

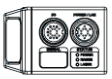
Scanning Software:

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.

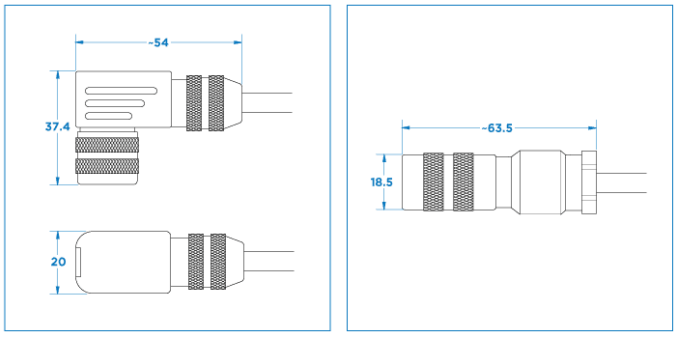
Mechanicals:



2880



2880



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