Intelligent 3D sensors

Gocator combines 3D scanning, measurement and control in a single device that requires no external PC or controller. This efficient design and high-performance functionality make it easy to integrate the Gocator into existing inspection systems, minimizing system costs and maximizing product quality and throughput.

All Gocators are factory calibrated, so the sensor can be set up immediately via web browser and functions such as exposure time, trigger, dimensional measurement tools and transfer method can be adjusted.
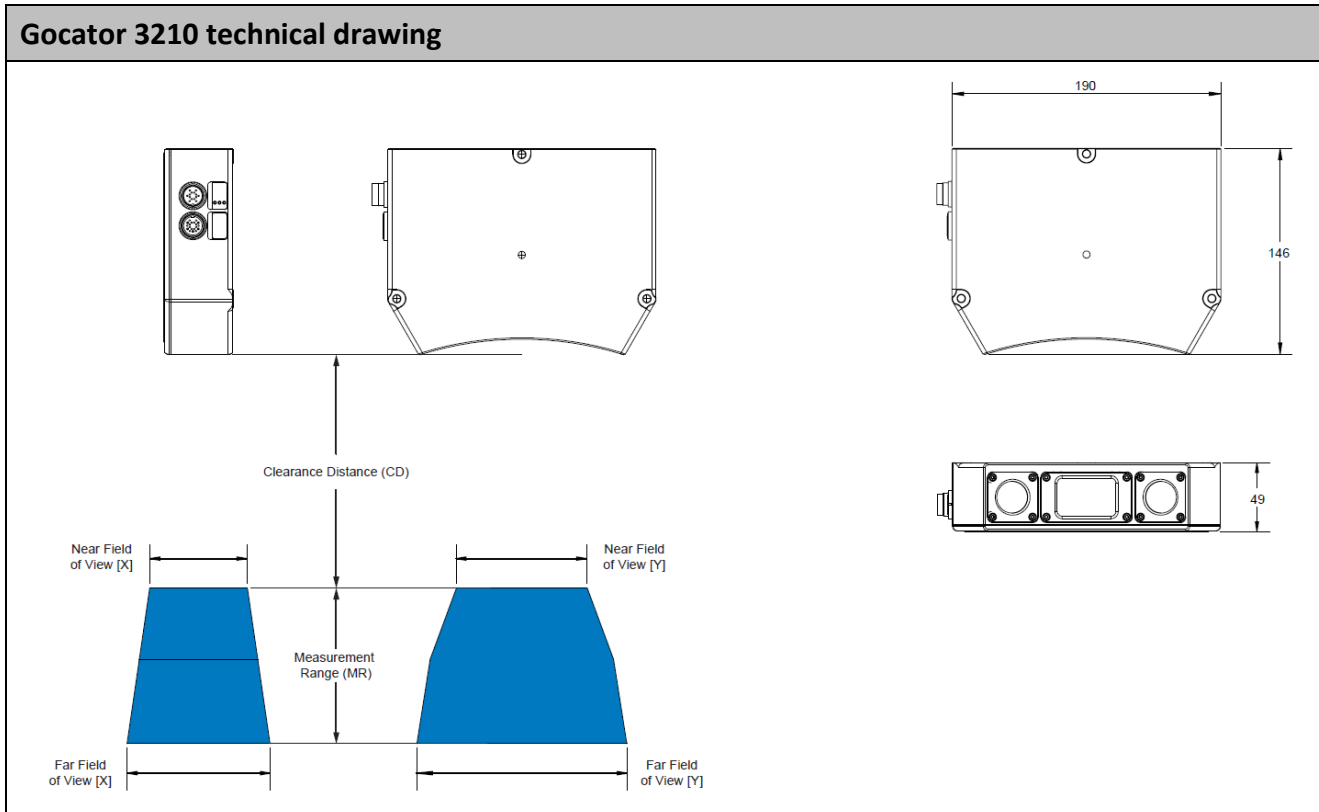
Once setup is complete, simply disconnect the sensor from the PC and the Gocator provides high-speed, real-time, micrometer-scale measurements in stand-alone mode for a wide variety of inspection applications.

Snapshot sensors combine structured light (blue LED light) with integrated 3D measuring tools for specific object features. Unlike laser lines that scan objects in motion, snapshot sensors use a single snapshot scan to scan objects in start/stop mode.

✓   3D point cloud with a single snapshot

✓   Accurate 3D measurement with blue light strip projection

✓   Industrial design for long life

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Gocator 3210 specifications	
Item No.	041740
Measuring frequency (Hz)	4
Image sensor (Megapixel)	2
Measuring distance (mm)	164.0
Measuring range (mm)	110.0
Field of view (mm)	71.0 x 98.0 – 100.0 x 154.0
Repeat accuracy Z (µm)	4.7
Resolution XY (mm)	0.060 (near) – 0.090 (far)
VDI/VDE accuracy (mm)	0.035
Housing size (mm)	49 x 146 x 190
Weight (kg)	1.7
Light source	Blue LED (465 nm)
Interface	Gigabit Ethernet
Signal Inputs	Differential rotary encoder, trigger
Signal Outputs	2x digital outputs, RS-485 serial output (115 kbaud), 1x analogue output (4 - 20 mA)
Power supply	+48 VDC (50 Watt); RIPPLE +/- 10%.
Housing	Sealed aluminium housing, IP67
Operating temperature	0 to 45 °C
Storage temperature	-30 to 70 °C
Vibration resistance	10 to 55 Hz, 1.5 mm hub in X, Y and Z direction, 2 hours / direction
Impact resistance	15 g, half sine wave, 11 ms, positive and negative in X, Y and Z direction

Software and integrated 3D measuring tools	
Tool for 3D characteristics	Openings (holes, slots), cylinders, posts (with and without thread), levels
3D tools for volumes	Volumes, regions, bounding box, positions (min., max., centre), ellipses, orientations
Scan software	Browser-based user interface and OpenSource SDK for configuration and 3D visualisation in real-time. OpenSource SDK, generic drivers and industrial protocols for integration into user applications, third party vision solutions, applications and PLC controllers.

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Gocator 3210 technical drawing

Gocator accessories order data

Item No.	Description
041745	LMI Gocator I/O cable 1.2m M16 connector to open ends
041746	LMI Gocator I/O cable 2m M16 connector to open ends
041747	LMI Gocator I/O cable 5m M16 connector to open ends
041748	LMI Gocator I/O cable 10m M16 connector to open ends
041749	LMI Gocator I/O cable 15m M16 connector to open ends
041750	LMI Gocator I/O cable 20m M16 connector to open ends
041751	LMI Gocator I/O cable 25m M16 connector to open ends
041752	LMI Gocator Power/Ethernet cable 2m M16 connector to 1x open ends, 1x standard RJ45
041753	LMI Gocator Power/Ethernet cable 5m M16 connector to 1x open ends, 1x standard RJ45
041754	LMI Gocator Power/Ethernet cable 10m M16 connector to 1x open ends, 1x standard RJ45
041755	LMI Gocator Power/Ethernet cable 15m M16 connector to 1x open ends, 1x standard RJ45
041756	LMI Gocator Power/Ethernet cable 20m M16 connector to 1x open ends, 1x standard RJ45
041757	LMI Gocator Power/Ethernet cable 25m M16 connector to 1x open ends, 1x standard RJ45
041758	LMI Gocator I/O extension cable 2m * M16 male to M16 female * Suitable for drag chain
041759	LMI Gocator power/ethernet extension cable 2m * M16 male to M16 female * Suitable for drag chain
041790	LMI Gocator I/O extension cable 5m * M16 male to M16 female * Suitable for drag chain
041791	LMI Gocator I/O extension cable 10m * M16 male to M16 female * Suitable for drag chain
041792	LMI Gocator power/ethernet extension cable 5m * M16 male to M16 female * Suitable for drag chain
041793	LMI Gocator power/ethernet extension cable 10m * M16 male to M16 female * Suitable for drag chain

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