

Gocator 2880

DUAL CAMERA 3D SMART PROFILE SENSOR

The Gocator 2880 smart sensor is designed for the demanding industrial conditions of the factory floor. Gocator's simple and flexible design enables factories to reduce costs and maximize profitability by improving efficiencies in product validation. With its built-in dual cameras, the sensor can create complete scans of large objects with complicated shapes.

- BUILT-IN DUAL CAMERAS
- HIGH SPEED & LOW LATENCY
- SETUP & CONTROL VIA WEB BROWSER
- BUILT-IN TOOLS, NO PROGRAMMING
- OPEN SOURCE SDK



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COMPLETE SCANS

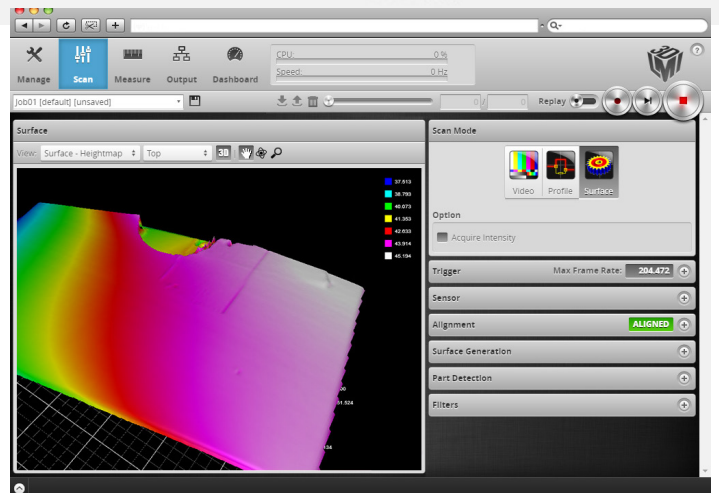
The Gocator 2880 is a profiling sensor designed for the scanning of large objects with complicated shapes, where the two cameras compensate for occlusions around protruding features. The sensor's big field of view and measurement range can accommodate a wide range of targets.

STANDALONE & SCALABLE

Single sensors require no additional controllers, amplifiers or PCs. Gocator systems can effortlessly scale to multiple sensors using LMI Master hubs. Masters take care of power distribution, laser safety interlock, encoder and digital input handling, and microsecond synchronization.

SIMPLE INTEGRATION

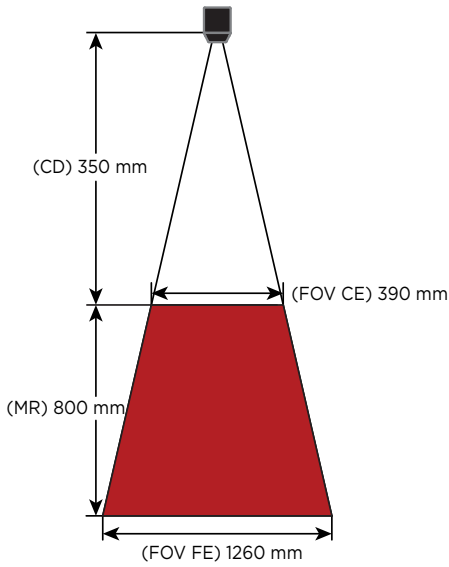
The Gocator 2880 combines a standardized single cable that carries power and all signalling into a compact, lightweight sensor solution that makes mounting and integration effortless.



Gocator's built-in web server firmware.

EASY TO USE

Standardized cabling and a compact 500mm unit size simplify mounting and integration of the sensors. Gocator's built-in GUI allows for flexible configuration of profiling settings and measurement tools using any web browser, computer or operating system. With no additional software to install, Gocator's out-of-the box setup and configuration is fast and easy.



GOCATOR 2880	
Scan Rate	380-920 Hz*
Field of View (FOV)	390 mm - 1260 mm
Points per Profile	1280
Resolution (X)	0.375 mm - 1.100 mm
Resolution (Z)	0.092 mm - 0.488 mm
Linearity (Z)	0.04% of MR
Clearance Distance (CD)	350 mm
Measurement Range (MR)	800 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 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 498 mm
Weight	2.56 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

* Sensor can run up 920Hz in Raw Mode where the user must combine the data from the two cameras

NOTE: Specifications are based on preliminary data. Final specifications may vary.

