





## Gocator 3504

## **3D SMART SNAPSHOT SENSOR**

- PRE-CALIBRATED, 6.7  $\mu m$  XY RESOLUTION 3D DATA IN A SINGLE SNAPSHOT
- ACCURATE 3D MEASUREMENT WITH BLUE LIGHT PROJECTION
- INDUSTRIAL DESIGN FOR LONG LIFE
- REMOVES COST OF LINEAR MOTION SYSTEMS AND MINIMIZES ERROR DUE TO VIBRATION

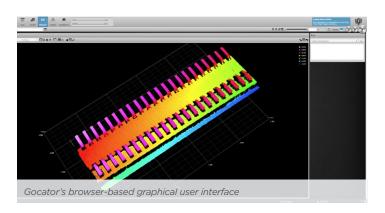
Gocator 3504 is the highest-resolution 3D snapshot sensor on the market today. Its combination of 6.7  $\mu m$  XY resolution and 0.2  $\mu m$  Z repeatability make this sensor ideal for detailed inline inspection of small electronic parts. An industrial stereo camera design helps see more of the part while delivering exceptional measurement stability.

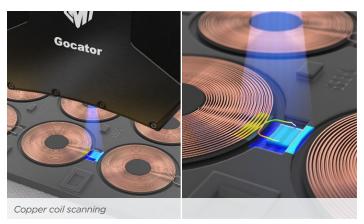
## HIGH ACCURACY WITH START-STOP MOTION

Gocator 3504's 5-megapixel stereo camera reduces occlusion and allows you to measure tiny features in a single snapshot, with the highest resolution and accuracy for an industrial structured light sensor on the market today.

## INLINE INSPECTION READY WITH FASTER PROCESSING

Single sensors require no additional controllers or PCs to produce 3D measurements. The sensor's new dual-core controller and onboard hardware acceleration allow for inline production speeds. For time-critical applications, Gocator 3504 can be further accelerated up to 4x faster using GoMax smart vision accelerator.



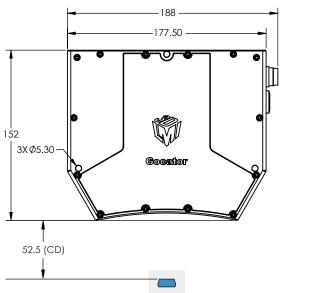


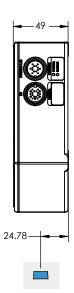


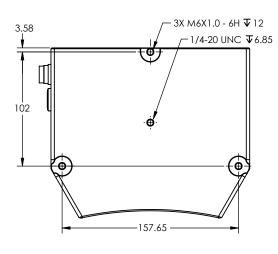
GOCATOR 3504 SPECIFICATIONS	
Scan Rate (Hz)	6
Imagers	5 MP, Stereo
Clearance Distance (CD) (mm)	52.5
Measurement Range (MR) (mm)	7
Field of View (mm)	12.1 x 13.2 (near) 12.7 x 16.4 (maxY) 13.0 x 15.0 (far)
Repeatability Z (µm)	0.2
Resolution XY (µm)	6.7 - 7.1
Accuracy XYZ (μm)*	6
Dimensions (mm)	49x152x177.5
Weight (kg)	1.77
Light Source	Blue LED (465 nm)
Inputs	Differential Encoder, Trigger
Outputs	2x Digital Output, RS485 Serial (115 kbaud), 1x Analog Output (4 - 20 mA)

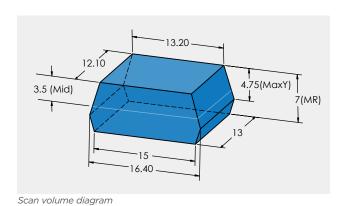
Interface	Gigabit Ethernet
Input Voltage (Power)	+24 to +48 VDC (25 Watts); Ripple +/- 10%
Housing	Gasketed Aluminium Enclosure, IP67
Operating Temp	0 to 50 °C
Storage Temp	-30 to 70 °C
Vibration Resistance	10 to 55 Hz, 1.5 mm double amplitude in X, Y, and Z directions, 2 hours per direction
Shock Resistance	15 g, half sine wave, 11 ms, positive and negative for X, Y, and Z directions
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
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.

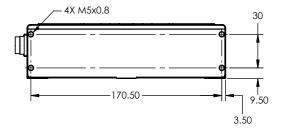
<sup>\*</sup> Based on sphere-fitting at various positions in the scan volume.













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