

# Gocator® 2510/2520

## 3D SMART LINE PROFILE SENSORS



BLUE  
LASER

- PRE-CALIBRATED TO SCAN OUT-OF-THE-BOX
- X RESOLUTION DOWN TO 8  $\mu\text{m}$
- 10,000 PROFILES PER SECOND INCLUDING 3D MEASUREMENT
- SETUP & CONTROL VIA WEB BROWSER OR SDK
- BUILT-IN TOOLS, NO PROGRAMMING
- EXTEND WITH GDK AND GOMAX

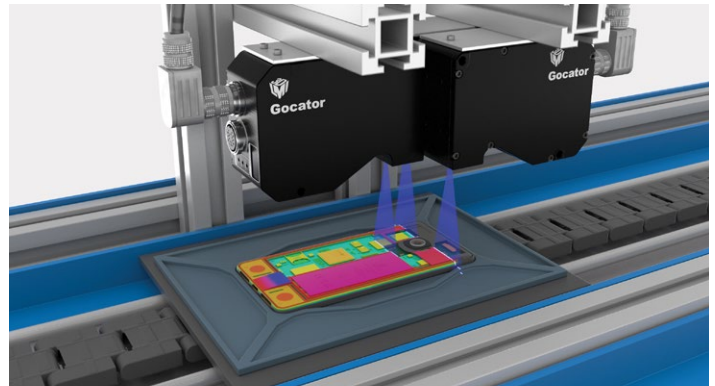
Gocator 2510 and 2520 3D smart sensors are the fastest, most compact, and advanced Gocator laser line profilers to date. Designed for high performance small parts inspection, these line profilers achieve fast scan speeds (up to 10 kHz), and high X resolution (8  $\mu\text{m}$ ). With a custom 2MP high-speed imager, advanced optical design, and blue laser light, Gocator 2510 and 2520 generate excellent data with highly repeatable results even on shiny surfaces.

### INSPECT WITH SPEED AND PRECISION

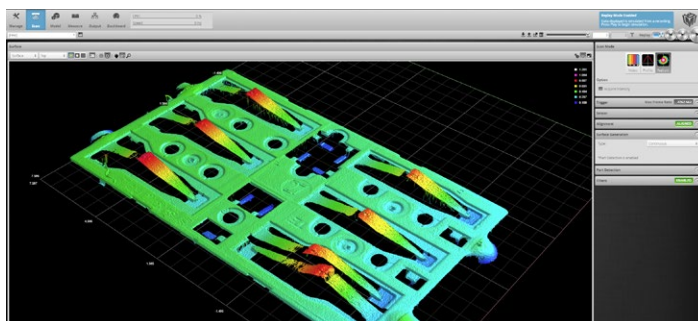
See and do more with micron resolution and faster scan rates. Take advantage of the higher speed by enabling multiple exposures to measure high-contrast targets at production speed. With an X resolution down to 8  $\mu\text{m}$ , small features such as edges or gaps can be easily measured.

### LARGE FIELD OF VIEW AND MEASUREMENT RANGE

Accomplish more with fewer sensors, while still capturing the finest surface and edge details with a large field of view. A large measurement range lets you handle a wider variety of parts.



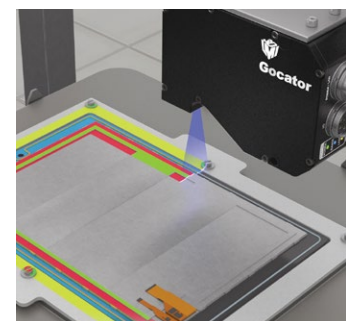
Phone component & frame inspection



Gocator's browser-based graphical user interface



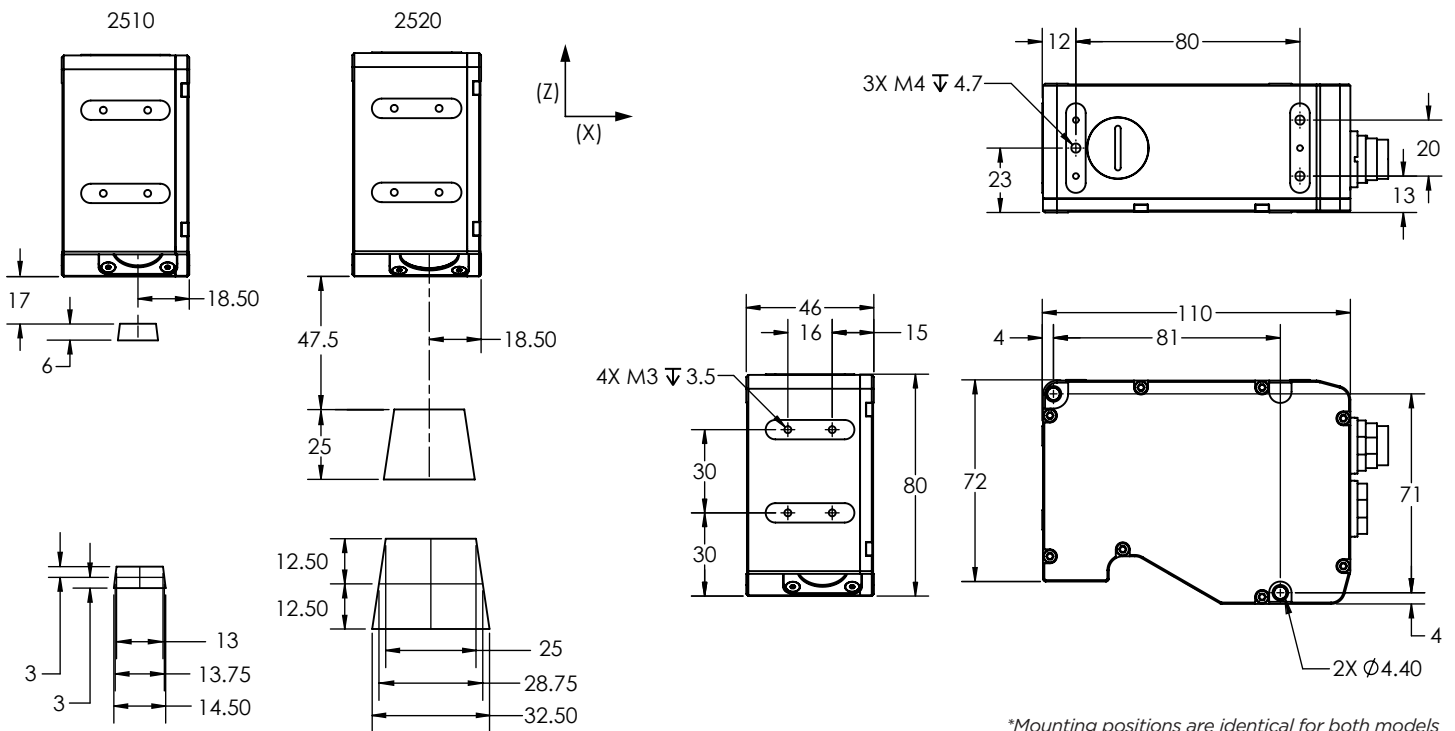
Phone bezel gap and flushness



Glue bead inspection

| GOCATOR 2500 SERIES MODELS                   | 2510             | 2520             |
|--|------------------|------------------|
| Data Points / Profile                        | 1920             | 1920             |
| Resolution X (μm)<br>(Profile Data Interval) | 8.0              | 13.0 - 17.0      |
| Linearity Z (+/- % of MR)                    | 0.015%           | 0.006%           |
| Repeatability Z (μm)                         | 0.2              | 0.4              |
| Clearance Distance (CD) (mm)                 | 17.0             | 47.5             |
| Measurement Range (MR) (mm)                  | 6                | 25               |
| Field of View (FOV) (mm)                     | 13.0 - 14.5      | 25 - 32.5        |
| Laser Class                                  | 2 (blue, 405 nm) | 2 (blue, 405 nm) |
| Dimensions (mm)                              | 46x80x110        | 46x80x110        |
| Weight (kg)                                  | 0.65             | 0.65             |

| ALL 2500 SERIES MODELS |  |
|------------------------|--|
| Scan Rate              | 2.4 kHz (2510 full field of view) / 1.6 kHz (2520 full field of view) to 10 kHz  |
| Interface              | Gigabit Ethernet   |
| Inputs                 | Differential Encoder, Laser Safety Enable, Trigger   |
| Outputs                | 2x Digital output, RS-485 Serial (115 kBaud)   |
| Input Voltage (Power)  | +24 to +48 VDC (15 Watts); Ripple +/- 10%  |
| Housing                | Gasketed aluminum enclosure, IP67  |
| Operating Temperature  | 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. |



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