



LMI TECHNOLOGIES



Gocator® 2880

DUAL CAMERA 3D SMART PROFILE SENSOR

FOR WOOD SCANNING APPLICATIONS

- Dual 1-Megapixel imagers - up to 1280 points per profile
- Reduced occlusion with dual camera design
- X Resolution: 0.015" - 0.043" (0.0375 mm - 1.1 mm)
- FOV: 15.4" - 49.6" (390 mm - 1260 mm)
- Measurement range: 31.5" (800 mm)

The Gocator 2880 smart sensor is built to thrive in the demanding conditions of the modern mill. Gocator's simple and flexible design enables mill operators to reduce cost and maximize profitability by significantly improving efficiencies in product validation. With its built-in dual cameras, the 2880 can rapidly generate complete 3D scans of logs using a minimum number of sensors.

360° SCANNING CAPABILITY

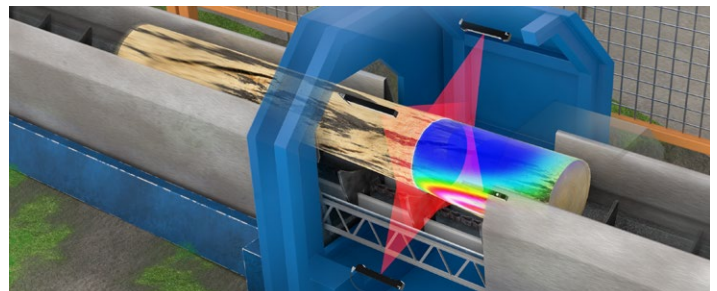
Gocator systems can effortlessly scale to multiple sensors using LMI Master hubs. For example, Gocator 2880 line profilers can be arranged in a ring configuration that logs pass through to scan the entire 360° circumference of the log and generate a complete 3D point cloud. Shape data is used to calculate wood volume and determine shape features such as taper, sweep, and crook.

REDUCED OCCLUSION

The Gocator 2880's dual camera construction minimizes occlusions around protruding features and the sensor's large field-of-view and measurement range are easily able to accommodate a wide range of targets.

SIMPLE TO INTEGRATE & EASY TO USE

Standardized cabling and a compact envelope size simplify mounting and system integration. Gocator's built-in Graphical User Interface (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.



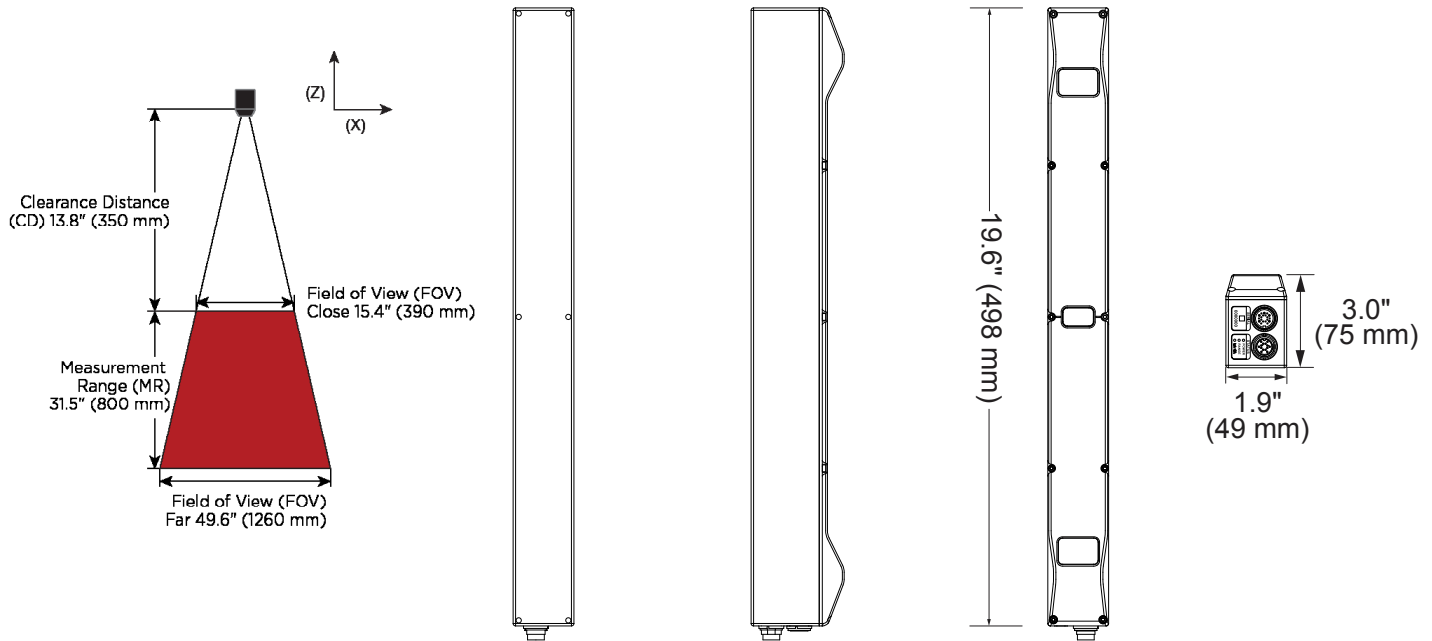
Ring layout of Gocator® 2880 laser line scanners scanning a log traveling along a lineal transport system



As the log moves through the scan plane, a full 3D map of the log surface is generated

GOCATOR 2880

Scan Rate	380 - 5000 Hz
Field of View (FOV)	15.4" - 49.6" (390 mm - 1260 mm)
Points per Profile	1280
Resolution (X)	0.015" - 0.043" (0.375 mm - 1.100 mm)
Resolution (Z)	0.004" - 0.019" (0.092 mm - 0.488 mm)
Linearity (Z)	0.04% of MR
Clearance Distance (CD)	13.8" (350 mm)
Measurement Range (MR)	31.5" (800 mm)
Laser Class	3R
Interface	Gigabit Ethernet
Inputs	Differential Encoder Input, Laser Safety Enable, Trigger
Outputs	2x Digital output, 1x RS-485 Serial
Input Voltage (Power)	+24 to +48 VDC (13 Watts); Ripple +/- 10%
Laser Profiler Dimensions	1.929" x 2.953" x 19.606" (49 mm x 75 mm x 498 mm)
Weight	5.644 lbs (2.56 kg)
Housing	Gasketed aluminum enclosure, IP67
Operating Temperature	+32 to +122°F (0°C to +50°C)
Storage Temperature	-22 to +158°F (-30°C to +70°C)
Vibration Resistance	10 to 55 Hz, 0.059" (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

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