



# Gocator 2880

## FAILSAFE 3D WOOD SCANNING

Gocator 2880 3D Smart Sensors are engineered specifically for the demanding conditions of wood processing in saw and planar mills. With high-speed 3D log scanning capability of up to 800Hz at full frame, mill technicians are able to inspect large volumes of lumber in the finest detail, increasing downstream production rates and maximizing grade-based value recovery. The Gocator 2880 is capable of deploying various combinations of resolution, speed, measurement range, and field-of-view depending on the specific application. Its lightweight, compact, flexible and scalable design makes the device easy to integrate into any wood processing system.

- BUILT-IN Y OCCLUSION ELIMINATION
- HIGH SPEED DATA ACQUISITION
- SETUP & CONTROL VIA WEB BROWSER
- BUILT-IN TOOLS, NO PROGRAMMING
- OPEN SOURCE SDK



### HIGH SPEED AND ACCURATE

The Gocator 2880 can scan up to 800Hz full frame, and even up to 920Hz with reduced field-of-vision. It features built-in Y occlusion elimination and high data density capture to maximize scan coverage and accuracy.

### FLEXIBLE & SCALABLE

Users can easily tailor the Gocator 2880 to the specific wood scanning application. Simply deploy any combination of resolution, speed, measurement range and FOV to achieve the best results for any mill application. Users can choose between the Gocator 2300 series and the 2800 series models based on application using the same SDK.

### SIMPLE INTEGRATION

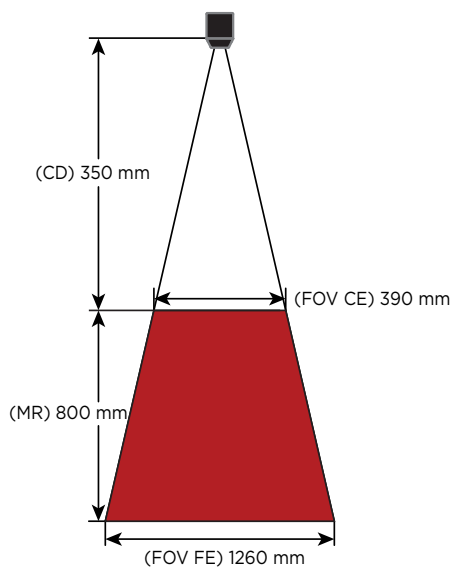
Standardized cabling and a compact 500mm unit size simplify mounting and system integration.



Gocator's built-in web server firmware.

### EASY TO USE

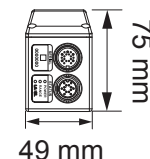
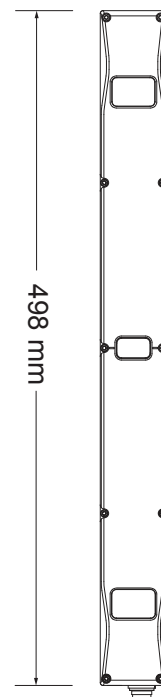
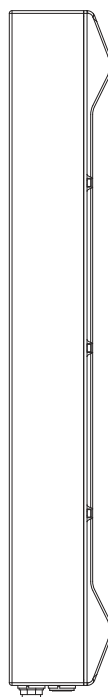
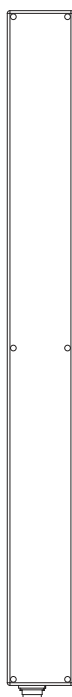
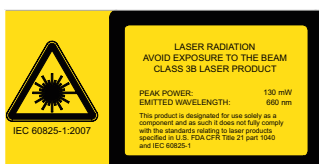
Gocator's built-in Graphical User Interface (GUI) allows for flexible configuration of profiling settings and measurement tools on any web browser, computer or operating system. With no additional software to install Gocator's out-of-the-box setup and configuration is fast and easy.



### 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 user must combine data from the two cameras  
 NOTE: Specifications are based on preliminary data. Final specifications may vary.



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