with the standards relating to laser products specified in U.S. FDA CFR Title 21 Part 1040.

This product is designated for use solely as a component and as s

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broduct names mentioned herein may be trademarks of their respective owners.

NOTE: Gocator must be connected to a host computer in order to launch the user interface and set up the sensor.

Gocator sensors are configured by connecting with a web browser.

The user interface supports FireFox 3.5+, Chrome 4.0+, and Internet Explorer 8.0+. (Use Firefox or Chrome for optimal performance.) The Adobe Flash browser plugin version 10.0+ must be installed. Version 4.0 of the interface is shown here.

A. Launching the interface

Change network setting on host computer

- •Open the Control Panel>Network and Sharing Center>Change Adapter Settings
- •Right-click desired network connection, then click Properties
- •On the Networking tab, click Internet Protocol Version 4 (TCP/IPv4), then click Properties.
- •Select "Use the following IP address" option.
- •Enter IP Address "192.168.1.5" and Subnet Mask "255.255.255.0", then

In Mac OS X 10.6

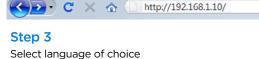
- •Open the Network Pane in System Preferences and select Ethernet.
- Set Configure to "Manually
- •Enter IP Address "192.168.1.5" and Subnet Mask "255.255.255.0", then

Gocator is shipped with the following default network configuration

Setting	Default
DCHP	Disabled
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Gateway	0.0.0.0

Step 2

Open a web browser and enter the sensor address





The Administrator password is initially blank. Press the Login button to connect

An example of the user interface in use

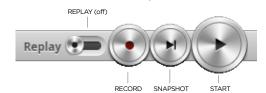
B. RUNNING GOCATOR

Select the Manage page.



Step 2

Ensure that Replay mode is off (slider set to left) and that the Laser Safety switch is enabled or the Laser Safety input is high. Press the Start button in the toolbar to start the sensor (a laser line should now be visible).



Step 3

Move target into the laser plane and measure!

Once connected to the Gocator, click the Help icon to

view the user manual or download the SDK

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manufacturing or any other purpose without prior written permission of This document, submitted in confidence, contains proprietary information which shall not be reproduced or transferred to other documents or disclosed to others or used for

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MI TECHNOLOGIES

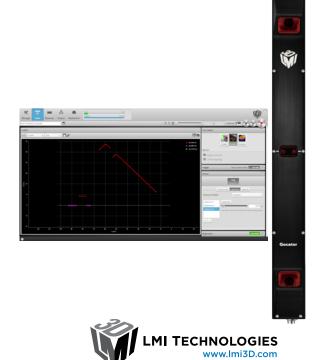
moo:@lmi3D.com :liem3 Worldwide moo. Q Siml. www

NOTE

Gocator sensors can also interface directly with HexSight. Refer to the HexSight Quick Start Guide for more information.



Quick Start Guide

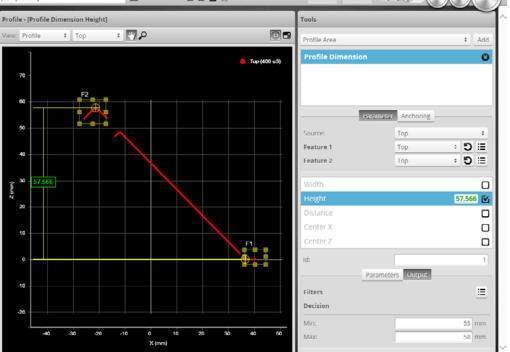




and more, go to www.lmi3D.com/downloads

15212-1.2_Manual_Quickstart_Gocator-2880-Series

100 土土 🏗 rofile - [Profile Dimension Height] : 70 Feature 1



TROUBLESHOOTING

The sensor emits laser light, but the Range Indicator does not illuminate

and/or points are not displayed in

The sensor CPU level is near 100%.

the Profile Viewer.

PROBLEM SUGGESTED RESOLUTION Mechanical / Environmental The sensor is warm. • It is normal for a sensor to be warm when powered on. Connection • Verify the sensor power is on. This will be indicated by an illuminated POWER LED. • Verify the Power & Ethernet cordset is connected to the Power/LAN connector and the Ethernet end's RJ45 of the cordset is connected to the Ethernet switch When connecting with a web · Verify that the client computer's network settings are properly configured. Refer to the Connecting to a New Sensor section in the Gocator user manual or to browser, the sensor is not found your computer's documentation on configuring a network adapter. (page does not load). Download 14405-x.x.x.x_software_go2_tools.zip from the downloads area of LMI's website at www.lmi3D.com. Unzip and run the Sensor Discovery Tool [bin>win32>kDiscovery.exe] to verify that the sensor has the correct network settings. Download 14405-x.x.x.x_software_go2_tools.zip from from the downloads area of LMI's website at www.lmi3D.com. When attempting to log in, the Unzip and run the Sensor Discovery Tool [bin>win32>kDiscovery.exe] to discover the sensor on the network and restore default settings. password is not accepted. NOTE: Using the Sensor Discovery tool will reset your configuration settings to default - these settings can be recovered from the backup **Laser Profiling** • Ensure that the decal covering the laser emitter window, normally affixed to new sensors, has been removed. When the Play button is pressed, · Verify that the LASER LED on the Gocator is illuminated, if not, the laser safety input signal is off. Refer to the sensor does not emit laser light. Laser Safety Input Section in the Gocator user manual to determine the correct solution for your application. The exposure setting may be too low. Refer to the Exposure section in the Gocator User Manual for more information on configuring exposure time.

· Check that the exposure time is set to a reasonable level. Refer to the Exposure section in the Gocator User Manual

· Verify that the measurement target is within the sensor's field of view and measurement range.

• Review the active measurements and eliminate any that are unnecessary measurements.

The RANGE LED on the Gocator will illuminate when the target is in range.

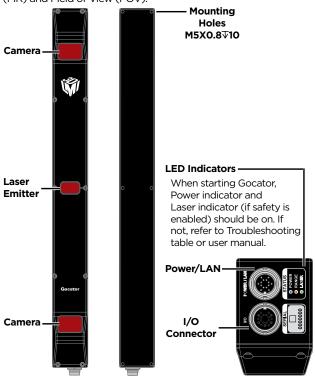
for more information on configuring exposure time.

• Consider reducing the laser profiling resolution.

• Consider reducing the trigger speed.

GOCATOR OVERVIEW

Refer to the Gocator user manual for more information about the sensor, including Clearance Distance (CD), Measurement Range (MR) and Field of View (FOV).



GROUNDING GOCATOR

Gocator housings should be grounded to the earth and the grounding shield of the Gocator I/O cordsets. Gocator sensors have been designed to provide adequate grounding through the use of M5 x 0.8 screws. Always check grounding with a multi-meter to ensure electrical continuity between the mounting frame and the Gocator connectors.

The frame or electrical cabinet that the Gocator is mounted to must be connected to earth ground.

GROUNDING CORDSET (RECOMMENDED)

To minimize interference with other equipment, the Power & Ethernet or the Power & Ethernet to Master cordset (depending on cordset used in system) can be grounded by terminating the cordset shield before the split. The most effective grounding method is to use a 360-degree clamp. See User Manual for instructions.

ELECTRICAL SAFETY

Minimize voltage potential between system ground and sensor ground

Care should be taken to minimize the voltage potential between system ground (ground reference for I/O signals) and sensor ground. Use shielded cables with shield grounded at both ends. Sensor housing should be connected to earth ground.

Use a suitable power supply

The +24-48V power supply used with Gocator 2880 sensors should be an isolated supply with inrush current protection.

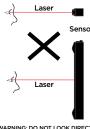
Use care when handling powered devices

Wires connecting to the sensor should not be handled while the sensor is powered. Doing so may cause electrical shock to the user or damage to the equipment.



Failure to adhere to the guidelines described in this section may result in electrical shock or equipment damage.

The full laser safety details including precautions, responsibilities and requirements are stated in the Gocator User Manual. Use of controls or adjustments or performing procedures other than those specified in the User Manual may result in hazardous radiation exposure.



NG: DO NOT LOOK DIRECTLY INTO THE LASER BEAM



with IEC60825. However, staring into the beam, whether directly or indirectly, must be avoided. IEC60825 classifies laser products into three different categories depending on light emitted, elength and eye safety.

This product is designated for use solely as a component and as such it does not fully comply with the standards relating to laser products specified in U.S. FDA CFR Title 21 part 1040 and

Class 2M: LASER RADIATION DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 2M LASER PRODUCT



Class 3R: LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT

AVOID EXPOSURE TO BEAM

CLASS 3B LASER PRODUCT



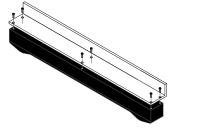






1. MOUNTING

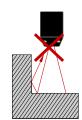
NOTE: Mounting the Gocator is recommended before applying power. Also, ensure that a proper earth ground is established and that a heat sink has been fitted before applying power.

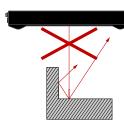


Mount the sensor using six M5 x 0.8 screws of suitable length.

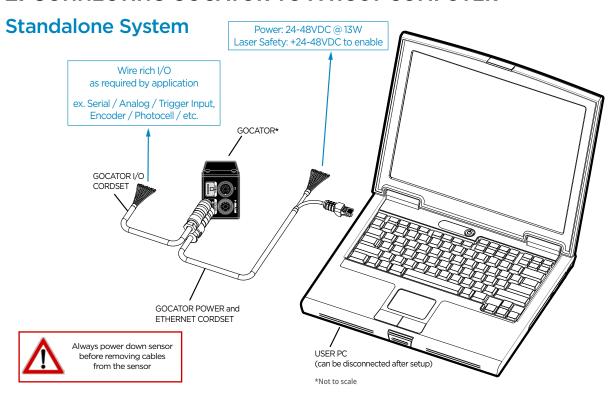
The recommended thread engagement into the housing is 8 - 10 mm.

Do not install near surfaces that might create unanticipated laser reflections.

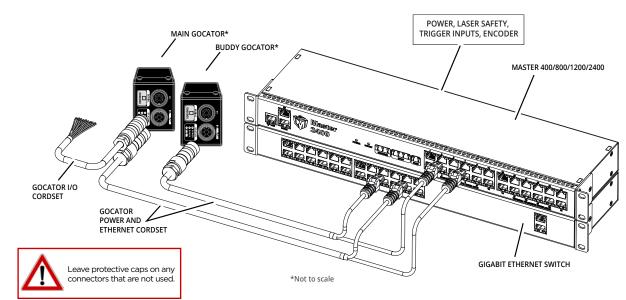




2. CONNECTING GOCATOR TO A HOST COMPUTER



Dual / Multi-Sensor System



Connector Pin Details

