



Gocator Firmware 4.4 SR 1 - Release Notes

Firmware Version 4.4.4.69

Document Revision A

Note: This is a Service Release for the 4.4 Firmware

Compatibility

Gocator 4.x firmware is NOT compatible with Gocator 3.x firmware. Users need to setup their configurations using the Gocator 4.x firmware. SDK users need to update their software to work with the Gocator 4.x SDK.

The Gocator 4.x Setup and SDK migration guides explain how to migrate from Gocator 3.x firmware to Gocator 4.x firmware. The migration guides can be downloaded from <http://www.lmi3d.com/resources/gocator/#how-to-guides>

Sensors upgraded to the Gocator 4.x firmware can downgrade back to Gocator 3.x firmware.

Users should back up their sensors before upgrading from Gocator 3.x firmware to Gocator 4.x firmware.

Gocator 4.x interface requires IE 9 or newer, Firefox or Chrome. Adobe Flash version 11 or above is also required.

Fixes

Opposite buddy mode	Measurements on profile data in opposite buddy mode were invalid when using both Top and Bottom sources.
Countersunk Hole XAngle	The Surface Countersunk Hole tool XAngle measurement was incorrect. This measurement should report the angle of the plane surrounding the hole.
SDK GoDataType values changed	Datatype IDs in the SDK were changed from previous values. In case hard-coded IDs were used such as in some of the C# SDK sample applications, expected messages could not be identified correctly.
Spaces in support file name	With Firefox, when trying to download a support file, using spaces in the name could cause the file to be downloaded with a partial name without file extension.
CSV converter tool	When using the CSV converter to convert a CSV file to a GenTLRGB png file, and the X resolution was greater than the Y resolution in the CSV data, the incorrect aspect ratio could be produced in the converted file.
Emulator scenario disconnects	If the Gocator Emulator had an open scenario running while the PC was switched to sleep mode, the session could be interrupted when attempting to resume.
Tracking window	When the search threshold value for the Tracking Window feature was set low (20% for example), some Gocator 2300 series sensor models could get stuck in a state of continuously searching for a valid tracking window.
Emulator crash	The Gocator Emulator could crash on startup under Windows 10 when the culture was set to "English (Europe)".
Decimation X Inconsistency	The Decimation in X filter produced inconsistent results when comparing applying the filter in Profile and Surface mode.
Digital Output	In some buddy mode configurations, Digital Output 2 was affected by the Digital Output 1 trigger event setting.



Part Matching Model	After having edited a Model for the Part Matching feature in Edge mode, it was possible that the changes to the model could not be saved.
Decimation Filter in 3D view	When viewing a Surface mode scan in the 3D view mode and enabling the Decimation filter, the view was not updated as expected.

Known Issues

Default CSV filename	In the emulator under Windows 10, the CSV export default file name may show as "replay.csv.csv" when the Windows Explorer feature "File Name Extensions" is enabled.
Scroll Wheel in Microsoft Edge Browser	At the time of the release, the mouse scroll wheel did not work as expected in the visualizer view (zoom in/out) when using the Microsoft Edge browser under Windows 10. A workaround is to hold down the right mouse button and scroll.
Downloading Manual/SDK with Windows XP / IE 8	Downloading user manuals and SDK package may not work under Windows XP and Internet Explorer 8 due to default security settings. This can be worked around by disabling the pop-up blocker (Tools > Pop-up Blocker Settings > Turn off) and enabling automatic prompting (Tools > Internet Options > Security > Custom level > Enable Automatic Prompting for File Downloads).
Translations incomplete	Not all English text is translated in every translation.

SDK and Protocol Changes

Protocol Version 101.6

Protocol version is specified as [Major].[Minor]. Firmware releases with the same Protocol Major version are backward compatible and users do NOT need to recompile their applications unless features in the newer version are used.

Note that these are protocol and SDK changes between *Release 4.4* and *Release 4.4 SR1*. Refer to the Gocator 4.x SDK migration guide for details on how to port your 3.x application to Gocator 4.x firmware.

SDK

Action	Name	Description of change
Add	GoDigital_SetOutputInverted + GoDigital_IsOutputInverted	Digital output inversion methods
Add	GoSensor_ResetEncoder	Resets sensor encoder value (only for encoders connected directly to sensor)
Fix	Message IDs	IDs that were incorrectly changed in the 4.4 release were reverted back to their previous values. This only affects the SDK but not the protocol.
Fix	Discovery	Discovery on QNX now finds devices beyond the first 8 devices
Fix	Job Loading	Loading job files with different sets of tools is now handled correctly



Configuration and Protocol changes

Action	Type	Name	Description of change
Add	Configuration	Output/Digital(0 1)/Invert	Digital output inversion