



Gocator Firmware 4.2 SR 1 - Release Notes

Firmware Version 4.2.5.17

Document Revision A

Note: This is a Service Release for the 4.2 firmware.

New Features

Gocator 2375 Support	The Gocator 2375 model is now officially supported with this 4.x release after previously only having been supported on the 3.x firmware versions. An increase in the current draw may be seen from 3.x firmware versions, while still within the documented limits.
GenTL Video Mode	Gocator camera video data can now be streamed through the GenTL driver. This allows full integration of the exposure tuning and setup experience in your own application.
Temperature Safety	Temperature safety support has been added which is applicable for sensors with invisible high power NIR lasers. This function will shut off the sensor if the ambient temperature exceeds 50°C. The feature is not enabled by default.

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, Firefox or Chrome. Adobe Flash version 11 or above is also required.

Improvements

<i>Reduced CPU usage</i>	CPU usage is reduced in some cases when operating over 1 kHz frame rate
<i>Japanese language</i>	Japanese language has been added to the web interface
<i>Status bar messages</i>	Increased the duration status bar messages are shown
<i>Emulator Scenarios</i>	Added more default emulator scenarios



Fixes

<i>Far range missing points</i>	Fixed an issue present only in release 4.2 where some large model Gocators (2342, 2375, and 2380) could miss some points in their extreme far or wide range
<i>Part detection</i>	Part detection produced partial scans with small encoder spacing and a Master 100. This issue is resolved.
<i>Discovery tool - Factory Restore</i>	For the Discovery tool from the tools package, the Factory Restore button has been removed. Factory Restore through the Gocator web interface is recommended instead.
<i>Select Mode in profile view</i>	It was possible to switch to the inapplicable "Select Mode" through right clicking on the profile in Profile Mode. This has been fixed.

Known Issues

<i>SDK documentations search function</i>	SDK documentation search function may not work on some Chrome installation due to privacy settings.
<i>Incomplete language translations</i>	The web interface is not translated in some previously supported languages (i.e. Spanish, Portuguese, and Korean).

Protocol Changes

Protocol Version 101.4

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 4.2* and *Release 4.2 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.

Action	Type	Name
Add	Health	Over temperature state
Add	Health	Over temperature duration