

Gocator Firmware 5.2 SR1 - Release Notes

Firmware Version 5.2.19.71

Document Revision A

Compatibility

The Gocator 5.x web interface requires Chrome, Firefox or Edge. IE 11 is supported in a limited fashion (see known issues for details).

The 5.x releases are compatible with 4.x SDK.

General support for older hardware models continues, but new measurement tools and PROFINET are not available on the following sensor models:

- G1300
- G2300 A and B revisions

With version 5.2 and later, the EtherNet/IP device information product code and version reported from the sensor have all been changed to 1. This allows using the same EDS configuration across different devices and firmware versions. However, existing implicit EtherNet/IP PLC configurations may need to be updated by either:

- Using the new EDS file
- Modifying the existing configuration's product code and version numbers
- Disabling electronic keying

New Features

<i>Surface Ball Bar</i>	This new tool allows easy robot calibration. It can be used directly with the Gocator Universal Robots URCap plugin.
<i>Feature Robot Pose</i>	The Feature Robot Pose tool allows creating a 6DOF pose from geometric features for easy integration with the Gocator Universal Robots URCap plugin. This eliminates the need for a script or GDK programming.

Improvements

<i>G3 Accelerated Performance</i>	The maximum frame rate of accelerated G3 sensors is improved for both GoMax and PC acceleration. Additionally, acceleration on PC now makes use of some graphics cards supporting CUDA for further acceleration.
-----------------------------------	--

<i>URCap plugin</i>	Several general improvements were made to the Universal Robots URCap plugin. This includes separating the GocatorScan node into GocatorTrigger and GocatorReceive nodes. The Gocator Receive now can output in UR pose format.
---------------------	--

Bug Fixes

<i>Accelerated G3 with multiple exposures</i>	Scan results are incorrect when accelerating a G3 snapshot sensor with multiple exposures.
<i>Exposure end</i>	An exposure end event was not received over the Gocator Ethernet protocol.
<i>G3504 crash</i>	A G3504 sensor could crash when changing the Padding parameters of the Part Detection panel.
<i>Video mode recording</i>	Upload of video mode recorded data could fail under some circumstances.
<i>SDK Part Matching</i>	A call to GoSensor_PartMatchModelCount() could cause a failed assertion.
<i>SDK anchoring lost</i>	When modifying the configuration through the SDK such as changing the exposure, the anchoring of tools was lost.
<i>Emulator launch</i>	The Emulator failed to launch when it was located in a file system path with non-English characters.
<i>Script bit shift operator</i>	The right shift operator >> shifted bits to the left.
<i>Tool region not resizable</i>	With repeated start stop operations, a tool region could get into the state of not being resizable when it should be.
<i>G2 raw surface</i>	Surfaces with Uniform Spacing disabled were not being displayed if they were set to be very long.
<i>G2880 alignment error</i>	An alignment error occurred when attempting to align an accelerated G2880 sensor to a flat surface.

Known Issues

<i>Internet Explorer</i>	Several issues exist with Internet Explorer 11 when using large data sets due to browser memory limitations. Refer to the Gocator user manual for IE 11 specific instructions to work around some of the issues.
<i>Translations incomplete</i>	Not all English text is translated in every language.
<i>Selcom output latency</i>	Processing latency with Selcom serial output has increased. The default delay for Selcom serial output has been increased to account for the increased latency.



SDK and Protocol Changes

Protocol Version 101.13

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 from the most recent previous release. Refer to the Gocator 4.x SDK migration guide for details on how to port your 3.x application to Gocator 4.x or 5.x firmware.

There are no SDK API or protocol changes in this release.

GDK Changes

Note that with 5.2 and newer, new tools are added to allow performing GDK builds for GoMax. Use the “Gocator GDK Prerequisites – Version 3.0.0.0” from the LMI website.

There are no GDK API changes in this release.

