

Gocator Firmware 5.2 SR3 - Release Notes

Firmware Version 5.2.29.3

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, major version and minor version reported from the sensor have all been changed to 1. This allows using the same EDS configuration across different devices and future 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

Improvements

<i>Surface Segmentation</i>	Improved consistency for Width and Length measurements by ensuring Length is always the larger dimension.
<i>Profile Closed Area</i>	Added new Center feature input to allow custom center point to override default center of bounding box.

Bug Fixes

<i>G3210 24V</i>	A Gocator 3210 sensor could fail to scan with a 24V power supply at specific exposure settings.
<i>SDK memory leak</i>	A memory leak could occur within the Gocator SDK in the case of using multiple sensors.

<i>G2500 stability</i>	Gocator 2500 sensor could under rare circumstances enter an error state which required a power reset to recover from.
<i>PROFINET job load</i>	Job loading could not always be performed successfully if the .job file extension was not included in the job name.
<i>PROFINET job load</i>	When an error occurred when trying to load a job no error would appear in the user interface.
<i>.NET SDK</i>	It was not possible to obtain the ID of a geometric feature output from a GDK tool without error.
<i>G3 alignment</i>	Alignment could fail with an error -999 when Gate on External Input was enabled.
<i>Intensity visualization</i>	Intensity information on surface data was not always updated in the visualizer when it was updated from tool output.
<i>Top & Bottom layout</i>	Part Detection with Edge Filtering on Top & Bottom layout resulted in data processing error.
<i>Video Mode multiple exposure</i>	Switching between viewing different multiple exposures in video mode could result in the video image disappearing.
<i>GoAccelerator</i>	No scroll bar was shown in GoAccelerator when there were more sensors on the network than could be displayed at once in the sensor list panel.
<i>G2880 Show Spots</i>	Enabling show spots in the visualizer in Video mode did not show spots correctly for both cameras.
<i>Profile Advanced Height</i>	An offset could be observed after comparing a master profile to the same profile it was generated from.

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.
<i>Surface Track</i>	The Surface Track tool is not supported on the GoMax device.
<i>G3504 with Interreflection Material</i>	The G3504 does not support the Interreflection Material setting at full field of view due to memory limitations. Reducing the field of view allows the sensor to run with Interreflection.



<i>Script Tool</i>	Memory leaks can occur when using <i>arrays</i> and <i>structs</i> within a script. Both should be avoided when possible or tested thoroughly to ensure stability.
<i>Buddy system processing drops</i>	A memory leak can cause high CPU usage and processing drops after buddying and unbuddying sensors hundreds of times.
<i>AVParser not included</i>	The Adaptive Vision integration package AVParser is not included in this release.

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.

SDK

There are no SDK API changes.

Configuration and Protocol changes

There are no Configuration or Protocol changes.

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” from the LMI website.

There are no GDK API changes in this release.

