

Gocator Firmware 6.1 SR2 – Release Notes

Firmware Version 6.1.32.12

Document Revision A

Compatibility

- Web Interface
 - The web interface requires Chrome, Firefox or Microsoft Edge version 79 or later.
 - IE 11 and old Edge versions are only supported in a limited fashion (see known issues for details).
- Hardware
 - New measurement tools and PROFINET are not available on G2300 A and B revisions
 - Gocator 1300 and 3100 series sensors are not supported.
- SDK
 - The 6.x releases are compatible with 4.x and 5.x SDK.

Improvements

<i>Surface Align Wide</i>	The Y angle of the alignment target can now also be included in the alignment with the new alignment mode “Sensors with Target Tilt”.
<i>Surface Merge Wide</i>	The Surface Merge Wide tool now supports improved output for continuous scanning with Y-staggered layouts through buffering and merging data in overlapping scan areas.
<i>Russian translation</i>	Russian language support has been added to the user interface.
<i>AVParser removal</i>	The AVParser utility has been removed from the Utilities package since it was uncommonly used. If it is required, please contact LMI support.

Bug Fixes

<i>Region Offset</i>	Measurement tools such as Surface Mask may operate on an incorrect region of data which is offset from the specified region. This could occur when the input into the tool is from the Surface Transform tool.
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<i>SDK connection failure</i>	With some of the new mesh and alignment tools and many files listed in their parameter dropdowns, the SDK could fail to connect to the sensor with a -994 out-of-memory error.
<i>EtherNet/IP Implicit connections</i>	All values including measurements could be returned as zero occasionally when receiving data over an implicit EtherNet/IP connection.
<i>Surface Transform and Stitch</i>	The Surface Stitch tool could fail when used on the output from Surface Transform.
<i>Surface Ball Bar</i>	Measurement of the ball bar radius and spacing could be incorrect.
<i>Raw Profile Matching</i>	The Error Tolerance was incorrectly used as the square root of the average error rather than just the average error. To achieve matching behavior to the 6.1 SR1 release, the value must be squared.
<i>SDK memory leak</i>	The SDK could over time use an increasing amount of memory when many configuration changes are made with measurement tools that include data output.
<i>VB.NET SDK sample error</i>	The VB.NET ReceiveSurface.vb included errors where ZOffset was used instead of XOffset and YOffset.
<i>CSV Export crash</i>	Attempting CSV export could cause a crash in the emulator if an output protocol which is not supported in the emulator is selected.

Known Issues

<i>Factory Restore does not delete tool-created files</i>	Factory Restore does not delete files created by tools. This includes Surface Pattern Matching and Surface Track. To ensure tool files are removed from a sensor, add the appropriate tool and perform a "Delete" operation on any files.
<i>Surface Track</i>	The Surface Track tool is not supported on the GoMax device.
<i>Surface Section</i>	With a profile from the Surface Section tool, it is not possible to obtain Global X & Y measurements from the Profile Bounding Box tool.
<i>Script Tool</i>	Memory leaks can occur when using <i>arrays</i> and <i>structs</i> within a script. Workaround: Avoid using arrays and structs or test thoroughly to ensure stability.
<i>Zoom to rectangle</i>	In profile mode, when disabling 1:1 mode, zoom to rectangle does not fully zoom
<i>Translations incomplete</i>	Not all English text is translated in every language.
<i>G3504 with Interreflection Material</i>	The G3504 does not support the Interreflection Material setting at full field of view due to memory limitations. Workaround: Use the new Interreflective firmware, reduce the field of view, or reduce the scan resolution.



Internet Explorer 11

Several issues exist with Internet Explorer 11:

- Launching and using additional data viewers is very slow.
- When using large data may not be possible due to browser memory limitations. Workaround: Refer to the Gocator user manual for IE 11 specific instructions to work around some of the issues.

SDK and Protocol changes

Protocol version 101.17

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.

The 6.x SDK will not discover any sensors with firmware 4.2 or earlier by default. Use `GoSystem_EnableDiscoveryCompatibility()` to enable discovery of sensors with older firmware.

SDK

No API changes were made compared to the 6.1 SR1 release.

Configuration and Protocol changes

No configuration or protocol changes were made compared to the 6.1 SR1 release.

GDK

No changes were made compared to the 6.1 SR1 release.

