

Gocator Firmware 6.3 SR1

Firmware Version 6.3.7.2

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

- Supported models
 - Gocator 2100C/D, 2300C/D, 2400, 2500, 2600, and 2800C series line profilers
 - Gocator 3200 and 3500 series snapshot sensors

LMI recommends that all Gocator 3210 and 3506 B version customers upgrade to version 6.3 SR1.

Gocator 3210 and Gocator 3506 B version hardware will no longer be supported on the previously released 6.3 firmware (6.3.3.1). **After updating existing units to 6.3 SR1, installation of firmware 6.3.3.1 will be blocked** (3210 and 3506 B version only).

In order to provide more consistent data quality, a reduction in the maximum achievable scan rate may be observed in certain sensor configurations, especially when using multiple exposures. These reductions can be up to ~10% in terms of theoretical maximum scan speed, but are not expected to impact typical applications.

Note that even with this reduction, the B version sensors still offer higher scan rates than earlier hardware in most applications! This change also affects the Gocator 3520.

- Older Gocator 1300, 2100A, 2300A/B, 2880A, and 3100 series sensors are *not* supported.

SDK

- The 6.x releases are compatible with the 4.x and 5.x SDK.

Windows 32-bit support removed

- Only 64-bit versions of Gocator Emulator, Accelerator and SDK binaries are available.

Improvements

General

<i>GoMax Localizations</i>	GoMax now includes UI translations in Japanese and Spanish for enhanced accessibility.
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Tool Enhancements

<i>Surface Cylinder</i>	Surface Cylinder now has the capability to output a circle feature at the center of the fitted cylinder.
<i>Surface Align Wide</i>	Surface Align Wide now supports an increased number of sensors, expanding from 8 to 12.
<i>Surface Merge Wide</i>	Surface Merge Wide has also been enhanced to support a total of 12 sensors.
<i>Surface Edge</i>	The Surface Edge tool now includes new Error Min Point and Error Max Point feature point outputs corresponding to the Min and Max Error measurements.

Bug Fixes

General

<i>Pattern Editor upload failure</i>	The Pattern Editor utility might fail to upload model files to a sensor.
<i>Pattern Editor in Windows 11</i>	The Pattern Editor utility on Windows 11 might display a black screen after opening a pattern in the editor.
<i>Spot Selection set to None</i>	G2500 sensors with Spot Selection set to "None" could fail to trigger the laser.
<i>G3210B and G3506B data quality</i>	The G3210B and G3506B sensors could exhibit reduced data quality under certain multiple exposure settings.
<i>G3210B and G3506B firmware upgrade compatibility check</i>	Gocator G3210B and G3506B could allow upgrade to unsupported firmware versions, resulting in an unresponsive sensor.
<i>G3520 data corruption</i>	Under certain configurations the G3520 could intermittently produce corrupted data.

Tool Bug Fixes

<i>Surface Transform & Surface Merge Wide</i>	Fixed an issue where the visualization of the output from Surface Transform and Surface Merge wide could result in poor visualization with other tools like Surface Plane.
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Known Issues

<i>HDR Mode in Support File</i>	HDR Mode settings are not displayed in the UI when a support file is loaded into the Emulator. While the HDR functionality is fully functional, its absence in the UI may affect usability when working on a 2600 Emulator scenario.
<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>Surface Blob</i>	Renaming some of the measurement outputs from Surface Blob is not supported. Though the change may appear to be made, it is not persisted when saving a job file.
<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>Internet Explorer 11</i>	Several issues exist with Internet Explorer 11: <ul style="list-style-type: none">• Launching and using additional data viewers is very slow.• Using large data sets 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 101.21)

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 6.3 release.

Configuration and Protocol changes

No configuration or protocol changes were made compared to the 6.3 release.

GDK

No significant changes were made compared to the 6.3 release.

