LMI TECHNOLOGIES

# Gocator Classic 6.6

Version 6.6.9.2
Document Revision B

## 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, 2800C/D, and 6500 series line profilers
  - Gocator 3200A/B and 3500A/B series snapshot sensors
  - GoMax ORIN, ORIN+

- No longer supported:
  - Original GoMax, **GoMax NX**
  - Gocator 1300, 2100A, 2300A/B, 2880A, and 3100 series sensors

**SDK**

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

## New Features

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| *G2610 / G2618* | Support added for B version of G2610 and G2618 models |
| *G2715* | This release supports the new Gocator 2715 model |
| *G6 Active Area* | The maximum framerate of G6 sensors is improved for cases where the active area is not vertically centered in the measurement range. |
| *G6 subsampling* | For G6 sensors, a new high-speed subsampling mode has been added |
| *G3 shutdown* | A new shutdown feature for G3 has been added to the SDK and UI. This performs projector mirror parking, helping reduce mechanical wear during planned shutdowns and frequent power cycling. |

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## Improvements

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| *Job load time* | The time to load large job files has been reduced significantly. |
| *Disconnect detection from SDK* | Added a method to, via the SDK, quickly discover when a sensor is disconnected. |
| *G2600 X subsampling* | For G2600 models, the X subsampling options have been removed since they provide no benefit. If you require larger X spacing, use Custom spacing with the desired spacing amount. |
| *GoMax NX* | GoMax NX devices are not supported by this firmware version |
| *SDK samples* | The VB.NET sample ReceiveProfile.vb did not handle ProfilePointCloud data correctly |
| *Surface Align Wide* | For Surface Align Wide and Surface Merge Wide, the maximum number of sensors is increased to 16. |
| *G6 overheat warning* | A warning message is now displayed if a sensor is close to overheating. |

## Bug Fixes

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| *Crash with G2 buddy system* | With two buddied G2 sensors, uniform spacing disabled, and intensity output enabled, outputting both left and right intensity separately, a crash could occur when attempting to receive the data through the SDK. |
| *G2600 X spacing* | When dragging the X resolution slider to its minimum on a G2600 sensor, a false invalid value error could be shown. |
| *G6 processing drops* | At high frame rates, processing drops could occasionally occur and processing latency would spike even though average processing latency was low. |
| *G6 intensity* | G6 intensity results varied in brightness when switching spot selection modes. |
| *Surface Curvature* | Many lines of output could be generated in the log panel if there is no scan data in the region. |
| *SDK Samples* | The C# ReceiveProfile example did not calculate the resolution and offset values correctly for point cloud message data. |
| *Incorrect serial number* | Under rare conditions, a sensor could show a serial number of 10 and not reset to the correct serial number after a power cycle. Now, a power cycle should recover from a temporary glitch unless there is a hardware failure. |
| *GoAccelerator* | If the network IP address specified to accelerate a sensor changed, the acceleration could get stuck on start with no easy way to change the IP address. |
| *SDK Win32 target* | Errors occurred when attempting to build the Win32 target of the SDK. |





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| *G2618 X resolution* | For G2618, the finest X spacing setting was not reliably applied when entering it through the text field. |
| *SDK samples* | VB .NET samples could fail to compile on the first attempt. |
| *Archive tool* | With a multi-sensor system, the Archive tool could cause a memory leak eventually resulting in a crash. |
| *Archive tool* | A .rec file from a mixed model buddy system could not be opened in the emulator. |
| *Archive tool* | Fixed issue where sensor is disconnected when FTP is enabled in Archive tool while making change to jobs or tools. |
| *Surface Filter* | In the Surface Filter tool, the "Use intensity" option was reset when the input was set to Bottom and acceleration was restarted. |
| *Surface Mask* | The output from the tool still included intensity values outside of the masked regions. This was visible in the data in the SDK. |
| *Surface Merge Wide* | The grid shown for the output data was smaller than the data itself. |
| *Cognex GoAIK* | The Cognex GoAIK Vision Pro integration showed an error if the image size was too large. |
| *G63xx intensity* | The G63xx intensity results were too bright |

## Known Issues

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| *G6 video mode* | With a reduced X FOV on a G6 sensor in Video mode, the spot overlay feature could show false spots on the right side of the image. Workaround: Increase the X FOV to full width |
| *G6 false points* | With a specific active area Z Start and MR and data located on the bottom edge of the FOV, additional false points may be generated on the left edge of the FOV. Workaround: Moving the active area slightly avoids this issue. |
| *GoMax upgrade* | Upgrading GoMax Orin from classic firmware (v6.6) to GoPxL v1.6 fails with a "System upgrade failed" error when using a package that includes Pro Tools.<br><br>Workaround: The device remains functional on v6.6 after a failed attempt; to upgrade successfully, use a package without Pro Tools, or stage the upgrade by installing GoPxL v1.5 first before proceeding to v1.6. |
| *GoMax support.cgi* | Downloading a GoMax support file with /support.cgi results in the UI needing to be refreshed.<br><br>Workaround: Manually refresh the UI |
| *Factory Restore does not delete tool-created files* | Factory Restore does not delete files created by tools. This includes Surface Pattern Matching and Surface Track. |





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| | To ensure tool files are removed from a sensor, add the appropriate tool and perform a “Delete” operation on any files. |
| *Surface Track* | The Surface Track tool is not supported on the GoMax device. |
| *Surface Section* | With a profile from the Surface Section tool, it is not possible to obtain Global X & Y measurements from the Profile Bounding Box tool. |
| *Surface Blob* | 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. |
| *Script Tool* | Memory leaks can occur when using *arrays* and *structs* within a script.<br><br>Workaround: Avoid using arrays and structs or test thoroughly to ensure stability. |
| *Accelerated recording* | With a sensor accelerated by a Windows PC, recording for hours could eventually exhaust system memory and cause a browser crash. |
| *G2 trigger drops* | When a trigger drop occurs in surface mode scanning, the last profile’s data is duplicated rather than leaving a missing profile where the drop occurred.<br><br>Always avoid trigger drops by adjusting scan settings such that triggering does not occur during the previous trigger’s exposure time. |
| *G2600 HDR option in Emulator* | The HDR parameter for G2600 sensors is not visible in the Emulator. This is due to sensor hardware needing to be present to show the available options. |
| *Zoom to rectangle* | In profile mode, when disabling 1:1 mode, zoom to rectangle does not fully zoom |
| *Translations incomplete* | Not all English text is translated in every language. |
| *EtherNet/IP in Rockwell Studio 5000 v34-v37* | Due to a change in Rockwell Studio 5000 Logix Designer v34-v37, module tags for EDS AOP devices may not display correctly, or tag structures may change unexpectedly when creating or upgrading projects.<br><br>Workaround: Upgrade to v38 or install the latest Add-On Profile (AOP) update for ControlLogix Analog modules (version 40.14.70).<br><br>For more information, see https://rockwellautomation.custhelp.com/app/answers/answer_view/a_id/1150229. |
| *EtherNet/IP simultaneous implicit and explicit communication* | With EtherNet/IP, simultaneous implicit/cyclic and explicit message communications can cause communication faults. Specifically, an implicit RPI that is a multiple of a shorter, fixed explicit message interval can corrupt multiple implicit messages from GoPxL in row, causing a temporary disconnect. |





## SDK and Protocol changes (Protocol version 101.23)

The 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

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| *Heartbeat disconnection monitoring* | Enables fast heartbeat-based disconnection detection for this sensor. See the Detecting Disconnections page and `GoSensor_EnableHeartbeat()`. |

### Configuration and Protocol changes

No changes

### GDK

No changes



