

GoPxL Software Release Notes

Software Version 1.1.52.14

Document Revision D

WARNING: To upgrade a GoMax NX device, follow the steps below:

1. When upgrading from GoPxL 1.1.11.1, perform a Factory Restore and power cycle the device. This is due to a known issue where with insufficient free memory upgrade can fail partway through, requiring rescue.

OR

When upgrading from Classic, upgrade to [Classic firmware 6.4 \(6.4.41.16\)](#) or later firmware.

NOTE: Classic firmware 6.3 SR2 will not allow upgrading to this build due to its large size.

2. Upgrade to GoPxL 1.1.52.14 for GoMax NX.

Compatibility

- Devices supported:
 - Gocator Line Profilers: 2100 C/D version, 2300 C/D version, 2400, 2500, 2600
 - Gocator Snapshot Sensors: 3200, 3500 (including 3210 and 3506 B version)
 - Gocator Line Confocal Profilers: 4000, 5500
 - GoMax NX, GoMax ORIN and GoMax ORIN+
- The following series and models are not supported:
 - Gocator Point Sensors: 1300
 - Gocator Line Profiler: 2629, 2880
 - Gocator Multi-point Profiler: 200
 - GoMax (pre-NX version)
- Web Interface
 - Google Chrome 91, Mozilla Firefox 79 or Microsoft Edge version 91 or later

New features

Surface Anomaly Detector tool for GoMax NX, ORIN and ORIN+

The Surface Anomaly Detector tool can be used to train a deep learning model and run inference to detect anomalies on uniform surfaces and intensities. In order to access the tool, users need to update the system to the GoMax Anomaly Detector firmware.

Training Archive tool

The Training Archive Tool is used to store production data for subsequent training of new models.

USB dongle licensing

The Surface Anomaly Detector tool is protected and requires a license when used with a LIVE sensor. Switching the system into REPLAY enables tool outputs and model training.

Synthetic Data Generation

In cases when NG frames are not available, users can enable generation of synthetic data during Training Configuration. This will allow the system to train a model using OK frames only.

Known Issues and Limitations

Anomaly Detector for GoMax

On GoMax NX, the replay buffer is limited to 300 MB

This limitation is present on GoMax NX but not on GoMax ORIN/ORIN+, where the replay buffer is limited to 2 GB.

Maximum project or recording download or upload size is 1.9 GB.

Users can download a Surface Anomaly project or selection of frames using the training wizard. While the maximum project size is limited by storage capacity, the maximum download size of the project is currently 1.9 GB.

GoMax NX freeze during training

Under rare circumstances, the training process can cause a GoMax NX to become unresponsive. In this case, the device must be power cycled to recover. This issue does not impact operation during inference.

Multiple instances and batching of Surface Anomaly Detector tool are not fully supported

While users can add multiple instances of the Surface Anomaly Detector tool in their jobfile or enable batching, these configurations are not supported by the Training wizard and not recommended.

Creating an empty project will block access to the Training Archive Tool

Users that create a project and exit the Training wizard while navigating the project page, will receive an error when trying to add the Training Archive Tool to their jobfile. To address this limitation, launch the Training wizard, select the empty project and proceed to the labelling page before exiting the wizard.

GoPxL Utilities and Sensor Firmware

Gocator 2610 with part detection produces frames with lost data

Using Gocator 2610 with part detection and high resolution scan settings may result in frames with lost data. Users are recommended to reduce encoder spacing if experiencing this issue.

Gocator 3210 upgrade

The free storage on a Gocator 3210 sensor may limit its ability to be upgraded to a different firmware version.

Workaround: If upgrade fails, perform a factory restore and ensure that any tool-created files are removed (for example from Surface Pattern Matching or Surface Track) by adding the tool and then deleting any files from the tool's Operation drop-down. If you have previously run the Gocator Classic firmware on the sensor, make sure files created with these tools are also removed (you will need to downgrade first)

<i>Large job files</i>	With a large job file and the UI open, performing Start and Stop operations could be delayed.
<i>Job loading/switching</i>	Loading or switching jobs may be slower than expected with small job files with less than 10 tools.
<i>Industrial Protocols: PROFINET</i>	Once the service is enabled, it cannot be disabled. Workaround: Toggle off the service, save the job, restart the sensor, and load the job again.
<i>Industrial Protocols: Ethernet/IP</i>	The sensor's serial number is incorrectly formatted within the Identity Object (Class 0x01).
<i>GoPxL Manager: Disabled buttons</i>	Users that launch GoPxL 1.0, close the application and launch GoPxL 1.1.11.1 or later on the same PC, may see buttons that are disabled in GoPxL Manager. Workaround: Close GoPxL Manager and delete any old instances located at C:\ProgramData\LMI\GoPxLService.
<i>Gocator 6.x .rec file load</i>	Loading scan data from .rec files from Gocator 6.x is generally supported but some exceptions apply: <ul style="list-style-type: none"> • Video mode and Top & Bottom buddy system recordings cannot be loaded • Scan page filters (Gap filling, Smoothing etc.) are not applied
<i>Failed recording load</i>	If a recording or support file load fails, the GoPxL instance may be left in a state where other issues can occur. Workaround: Factory restore and restart the GoPxL instance if you experience other issues after failing to load recorded data.
<i>Missing input for profile tools</i>	A profile tool with “missing input” may still output profile data in the Visualizer and show measurement values rather than marking the outputs as “invalid”.
<i>Tool performance</i>	The execution time of some tools may be slower than expected. Workaround: Ensuring that the Web UI is closed can improve performance of some tools.
<i>Track editor with multiple GoPxL instances</i>	When using multiple GoPxL instances on PC, it is not obvious which instance is which in the Track editor application’s Source drop-down.
<i>Updating GoHMI App on PC</i>	The browser cache must be cleared in order for a newly updated or created HMI app to show. In Chrome, open Developer Tools (Shift+Ctrl+J or F12), Right-Click on the browser Reload Button, and select “Empty Cache and Hard Reload”. This is not required for GoHMI on sensor or GoMax NX.



GoHMI System Tray Icons

In Windows versions before 11, GoHMI Server may leave behind multiple icons in the system tray after a crash or if it's forcefully closed. This is due to a design limitation in Microsoft's OS that can affect applications without a graphical user interface. To address this issue and remove the excess icons, simply hover your mouse cursor over them.
