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Firmware Release Notes, Gocator Displacement, Profile and Snapshot Sensors Firmware Version 3.6.5.15

This is patch release 3.6.2. For a complete list of changes between 3.5 and 3.6, refer to the 3.6.0 and 3.6.1 release notes.

New Features:

<i>Raw Operation Mode support in GenTL driver</i>	The GenTL driver now support receiving data from the raw operation mode, allowing faster data rates to 3rd party vision libraries that support GenTL. Refer to the Halcon and CB interface guide on how to setup operation for raw operation mode.
<i>Change exposure value thru GenTL driver</i>	Users can now change exposure value thru the GenTL driver. <i>Note: Only single exposure mode is supported.</i>

Important: This version requires Flash version 11.3 or later in order for the 3D viewer to function properly.

Notes:

<i>Units of the offset and Resolution values returned from GenTL driver are changed</i>	The GenTL driver now returns xyz offsets and resolutions in nm. Previously these values were returned in um. Halcon users who uses the <i>GenTL_ParseData</i> procedure must update their procedure with the ones supplied in the <i>Continuous_Acq.hdev</i> example code.
<i>Master 100 shielding required for Gocator 3000 series sensors.</i>	Gocator 3000 series must use the latest version Master 100 that includes a metal-shielding device. The old version of the Master 100 may cause damage to the laser safety control resulting in the sensors LEDs to not be able to turn on. This information has been added to the Gocator 3000 series User's Manual.





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Improvements:

CSV converter updated to support conversion of Raw Mode csv data to XYZ coordinate data.

The CSV converter now supports converting raw profile CSV data to XYZ coordinate pairs.

Gocator 3110 output light power increased

The light output power on the Gocator 3110 is increased

Fixes:

Gocator 1x00 dual-sensor may not boot-up properly.

A dual-sensor Gocator 1x00 system might not boot-up properly when it has a Difference measurement instantiated. This is now corrected.

G3 SDK documentation not included properly in release package

G3 SDK documentation is now correctly included in the release package.

Known Issues:

Incomplete language translations

The web interface is not fully translated in some supported languages (i.e., Japanese and Korean).

3D mesh does not function in Chrome web browser on some systems

On some systems, Chrome web browser may incorrectly access the GPU capabilities of the system, affecting the function of the 3D mesh viewer. This is most common on Mac systems. Users can work around this by enabling the "Override software rendering list" flag in the chrome://flags page of the browser.

Data loss when using Selcom serial with frame rate lower than 3 kHz

A frame rate lower than 3 kHz may cause data loss when outputting on Selcom serial.

The frame rate achievable with encoder or external input trigger with dynamic exposure mode on the Gocator 1 series is slightly below the maximum frame rate

The frame rate achievable with encoder or external input trigger on the Gocator 1 series is approximately 8% lower than the maximum possible rate.

Multiple dual-sensor systems on the same Ethernet network may disrupt operation

If two dual-sensor systems are on the same Ethernet network and one of them resets while the other system is running, the system that is running may stop operation. Users can work around this problem by separating the systems into two Ethernet networks.





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Note: This issue does not affect the ability of using one Master 400/800/1200/2400 to power up multiple dual-sensor systems.

Trigger drop values displayed in dashboard reset after reaching 65535

The trigger drop values displayed in the dashboard will reset to 0 when the value reaches 65535.

Sensor could be set to IP address starting with 0.x.x.x

A sensor could stop responding on Ethernet if its IP address is set within 0.x.x.x. The sensor's web interface and SDK do not prevent users from setting the sensor to this invalid IP address range. Users should avoid setting IP address within 0.x.x.x.

Measurement list in the web interface for Industrial Ethernet Protocol could exceed 20 measurements

EtherNet/IP and Modbus protocol support sending up to 20 measurement results. When users instantiate more than 20 measurements, only the 20 measurements with the lowest IDs will be sent. The web interface incorrectly includes all the measurements in the Ethernet panel.





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Gocator Protocol and SDK Changes:

No changes in patch release 3.6.2

