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Firmware Release Notes, Gocator Displacement, Profile and Snapshot Sensors Version 3.6.4.178

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

New Features:

Texture Roughness and Invalid Count tools	The two Texture tools allow the user to measure the roughness of a surface and inspect it for various properties, e.g., missing profile data due to holes or occlusions or valid profile data in regions where there shouldn't be any data.
C# and VB.NET Sample Code	In addition to the existing C sample code, the Gocator Driver Package now includes C# and VB.NET sample code explaining how to configure the sensor, how to perform alignment and travel calibration, and how to receive different modes of data.

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

Notes:

Gocator Integration Tools Package	C# and VB.NET sample code, CSV converter, GenTL and LabVIEW drivers, are now contained in the package *14453_3.6.4.171_Gocator_Integration_Tools*.

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Improvements:

Selcom serial outputs consistent validity results	Selcom serial now outputs consistent validity results for all of the Selcom serial outputs within one search frame (when tracking window is enabled and the sensor is searching). Previously the second and subsequent Selcom serial outputs for the search frame always output invalid results.
Extended EtherNet/IP message size	An additional extended size EtherNet/IP message is supported. The new extended message format holds 120 measurement values and decisions in a 680-byte packet. The extended message is Instance 0x322.
Gap and Flush Noise Filtering	The Gap and Flush algorithm now suppresses noise from large jump in the range in the surface region. This feature does not require changes to any user parameters. Note: The algorithm might return no in cases where the parameters are significantly different from scanned feature. Previous to this release the algorithm might return unreliable results instead.

Fixes:

Corrupted recorded data	Recorded data could become corrupted when the buffer is almost full. This is now corrected.
Configuration stored in replay data not uploaded together with replay data	Sensor configuration stored in replay data is now loaded when replay data is uploaded to the sensor, allowing users to view the measurement results of the replay data (at the time it was recorded).
Switching operation mode when switching configuration	When the configuration is switched, the sensor now switches its operation mode according to the mode saved in the configuration. Previously this was not the case, making it impossible to switch operation mode using EtherNet/IP, Modbus, or ASCII protocols.
Selcom serial with tracking window	Previously Selcom serial did not output data when the sensor entered search mode when tracking window was enabled. This is now corrected.
Support ".set" extension when changing configuration	To load a configuration that has the Transformation Source set as "All Configurations" using EtherNet/IP, Modbus, ASCII, and SDK, users should specify the ".set" file extension.
Gated input triggering failed in Whole Part mode	Sensor failed to start with gated triggering in Whole Part mode. This is now corrected.

The time to change sensor configuration on a calibrated dual sensor system increases	In release 3.6, the time to change sensor configuration on a calibrated dual sensor system increases with every change. This is now corrected.
Changing the Active Area of a calibrated dual sensor system causes a sensor crash.	In release 3.6, changing the Active Area of a calibrated dual sensor system causes a sensor crash. This is now corrected.
Bridge value algorithm corrected for Gocator 2342 model	Under some circumstances, the bridge value output was invalid even though there was valid data. This is now corrected.

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. *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	EtherNet/IP and Modbus protocol support sending up to 20 measurement

for Industrial Ethernet Protocol could exceed 20 measurements	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.

Gocator Protocol and SDK Changes:

No changes in patch release 3.6.1