UltraVision 3.10R7

Limitations and Remaining Anomalies
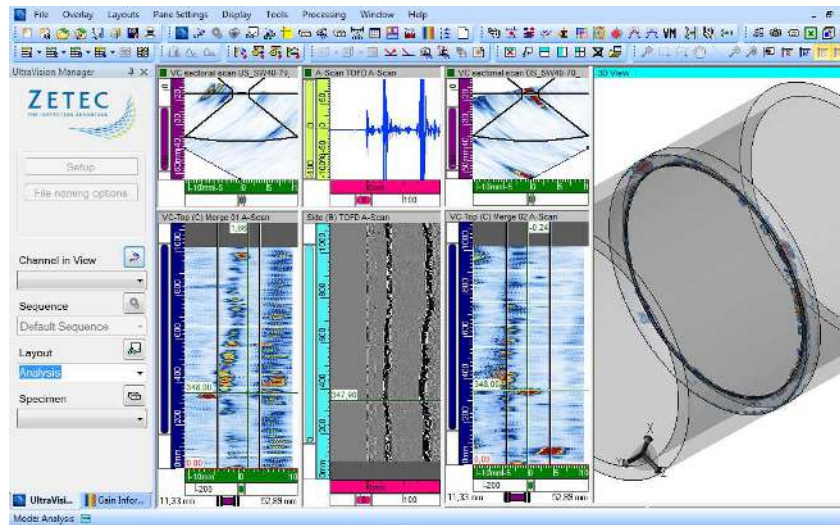
Table of Contents

IMPORTANT MESSAGE

UltraVision® Classic & Touch 3.10R7 is the latest UltraVision release for the UltraVision software. This new software version incorporates a series of new features and improvements as described in the *Product Bulletin* and *Technical Guidelines* documents.

Zetec is committed to the highest levels of product quality. Some limitations and remaining anomalies were detected during the validation campaign and are listed in this document.

If, when using UltraVision Classic or Touch 3.10R7, you detect any other limitations or remaining anomalies not included in this document, please contact us at Support-UTProducts@zetec.com. Detailed information about the problem will help our software team to expedite the correction process.

UltraVision Classic - Fixed Anomalies

Delay in data acquisition once Uncorrected C-scan is displayed in Internal Clock mode

Status:	**Anomaly**	**3899**
Description:	Once the Uncorrected Amplitude C-scan is displayed, the data acquisition in the Internal Clock mode is delayed.	
Bypass:	Fixed.	

Amplitude range cannot be configured in a multi-instrument configuration

Status:	**Anomaly**	**2535**
Description:	Amplitude range cannot be configured in a multi-instrument configuration	
Bypass:	Fixed.	

CVolMaxAmp infofield refresh lag

Status:	**Anomaly**	**2883**
Description:	CVolMaxAmp information field refresh lag	
Bypass:	Fixed.	

Quartz - Hard C-Scan Mismatch

Status:	**Anomaly**	**2125**
Description:	Quartz - Hard C-Scan Mismatch	
Bypass:	Fixed.	

Saturation at 100% whereas Acquisition done with 200%

Status:	**Anomaly**	**594**
Description:	Saturation at 100% whereas Acquisition done with 200%	
Bypass:	Fixed.	

DGS Curve - User Interface missing - Curves cannot be imported

Status:	**Anomaly**	**3734**
Description:	DGS Curve - part of User Interface is missing, so that DGS curves cannot be imported or configured	
Bypass:	Fixed.	

Clicker indexer not supported in multi-instrument configuration

Status:	**Anomaly**	**2103**
Description:	When using a multi-instrument configuration, it is not possible to configure a raster scan type sequence to use the clicker indexer on all instruments.	
Bypass:	Fixed.	

TCG problem with multiple channels

Status:	**Anomaly**	**630**
Description:	For multiples channels configuration with each a calibrated TCG in analog + digital mode, modifying a TCG point in one channel will modify TCG points in every channel.	
Correction:	Fixed.	

Wrong parameters loaded for Pitch & Catch probes

Status:	**Anomaly**	**1279**
Description:	The wrong parameters are loaded in UV Classic for pitch & catch probes when "toggling" between "Pitch & Catch" and "Pulse-Echo" configurations.	
Correction:	Fixed.	

Acoustic beam simulation: Incomplete visualization in specimen with weld

Status:	**Anomaly**	**1280**
Description:	The results from acoustic beam simulation are not completely visualized in a specimen with weld.	
Correction:	Fixed.	

Report: Element check calibration is not correctly reported

Status:	**Anomaly**	**1316**
Description:	Element check calibration section of the detailed report is not accurate and missing important information.	
Correction:	Fixed.	

Crash when changing specimen shape on a data file

Status:	**Anomaly**	**1374**
Description:	UltraVision crashes when changing the specimen (from cylindrical to flat) on a data file.	
Correction:	Fixed.	

DAT file format not supported in UltraVision 3.9R20 and up

Status:	**Anomaly**	**1469**
Description:	DAT file format not supported for UltraVision release 3.9R20 and up.	
Correction:	Fixed.	

3D views not visible in detailed reports

Status:	**Anomaly**	**2479**
Description:	When producing a detailed report, the 3D view of an indication is not visible.	
Correction:	Fixed.	

UltraVision Touch - Fixed Anomalies

Configuration with 2x TFM (or STF) channels + TOFD channel not working

Status:	Anomaly	2524
Description:	For configuration with two TFM channels, it is not possible to add a TOFD channel.	
Correction:	Fixed.	

Gain application on one channel disturbs TFM TCG on another channel

Status:	Anomaly	1758; 1781
Description:	For configuration with two TFM channels, each calibrated with a TCG, changing the gain on one channel will disturbs the TCG on the other channel	
Correction:	Fixed.	

Issues with gates in long time base range when using compression

Status:	Anomaly	2139; 2945
Description:	For configuration with a long time base range and using a compression factor, gates do not give proper results if set after a certain point. This also affected the TCG calibration.	
Correction:	Fixed.	

Multiple issues with the motorized weld crawler

Status:	Anomaly	2475, 2531, 2533, 2588, 3009
Description:	Not possible to carry out an inspection with a motorized weld crawler due to multiple issues including erratic behavior of motor 2, auto-detect of encoder not always functional, dual motor mode not functional, failure in sending commands to motor 2.	
Correction:	Fixed.	

Velocity Calibration – Gate 2 stays in homing mode during calibration

Status:	Anomaly	1521

Description:	If gate 2 is set to homing on gate 1, it stays in this condition while entering the velocity calibration making it impossible to set it on the second reflector.
Correction:	Fixed.

TFM TCG Calibration – Dynamic merge does not plot data if encoder values are outside the inspection zone

Status:	**Anomaly**	**1733**
Description:	When performing TFM TCG calibration, no data will be plotted in dynamic merge if encoder values are outside the inspection zone.	
Bypass:	Fixed.	

TOPAZ64 – Potential unexpected crashes when using STF configuration

Status:	**Anomaly**	**1598**
Description:	Unexpected crashes can occur when using a STF configuration.	
Correction:	Fixed.	

TOPAZ32 – Cameras drivers not installed properly

Status:	**Anomaly**	**1701**
Description:	Cameras drivers are not detected on TOPAZ32 if UV Touch 3.8R30 has not been previously installed. Impossible to use the vision kit in that case.	
Bypass:	Fixed.	

TOPAZ16 – Erratic behavior of conventional channels when used with a splitter

Status:	**Anomaly**	**1748**
Description:	When using a splitter with multiple conventional or TOFD channel, a mix up of these channels can happen with the auto detection or when doing a reset of the setup.	
Bypass:	Fixed.	

TOPAZ – Automatic "de-zoom" when changing parameter in specimen window

Status:	Anomaly	1934
Description:	When zoomed in the specimen window, changing any parameters will "de-zoom" the view.	
Bypass:	Fixed.	

Reports – Impossible to create reports from a data file of UltraVision 3.9R9 or 3.9R20

Status:	Anomaly	1762
Description:	Unexpected error when trying to create a report from a data saved in UltraVision 3.9R9 or 3.9R20.	
Correction:	Fixed.	

TOPAZ32 – Can't create multiple time reversal channels on the Touch interface

Status:	Limitation	983
Description:	It is not possible to use time reversal on configuration with more than one channels on the Touch interface.	
Correction:	Fixed.	

TOPAZ64 – Failure in following the encoder position in inspection mode with RF TFM channels

Status:	Anomaly	1501
Description:	Encoder position gets stuck at preset value when the rectification of one (or more) TFM channel is set to RF.	
Correction:	Fixed.	

Paintbrush buttons not working when setup is created manually

Status:	Limitation	1174
Description:	It is not possible to use the paintbrush button if the setup is created manually (not using the proposed setup).	
Correction:	Fixed.	

UltraVision Classic - Limitations and Remaining Anomalies

Beam Simulation – Unexpected error when doing simulation in pitch & catch with a weld

Status:	**Anomaly**
Description:	Doing a beam simulation in phased array pitch & catch will return no simulation when the defined sample has a weld.
Bypass:	None.

Cannot program second alarm output

Status:	**Anomaly**
Description:	On QUARTZ and TOPAZ instruments, the second alarm output cannot be configured.
Bypass:	None.

UltraVision Touch - Limitations and Remaining Anomalies

TFM TCG Calibration – Anomaly with visualization for probe with skew 180 & 270 degrees

Status:	**Anomaly** 1681
Description:	When performing TFM TCG calibration with a probe configured with a skew of 180 or 270 degrees, and with frame location set at "relative", the scan/index scale of the calibration traces is not correct.
Bypass:	Use frame location "Absolute".

TOPAZ64 – Incorrect signal when first element of sweeping(linear) TFM is not 1

Status:	**Limitation**
Description:	When configuring a sweeping (linear) TFM, if the first element of the sweep is not set to 1, the generated signal is not correct.
Bypass:	Always set linear TFM with the 1st element at 1.

FMC Raw Data Saving when first element is not 1 gives wrong results

Status:	**Anomaly** 3206
Description:	When performing FMC raw data saving, the aperture must start with first element at #1 to gives proper results. have the same aperture in order to have a UVDataFMC file that is functional.
Bypass:	Use first element #1 with probe orientation at normal (not reversed).

FMC Raw Data Saving with 2x channels

Status:	**Anomaly** 3601
Description:	When performing 2x channel live TFM with FMC raw data saving, the 2x channel must have the same aperture in order to have a UVDataFMC file that is functional.
Bypass:	Use same aperture for each channel of TFM to be able to do FMC raw data saving properly.

Weld Crawler – Not possible to inspect properly if selected encoder is not #1

Status:	**Anomaly** 3180

Description:	If encoder ID selected is 2 with the weldcrawler on auto-detect, the scan will not be perform correctly.
Bypass:	Use Encoder ID #1 with the weld crawler on auto-detect.

Time Reversal - Inverting the encoder could causes no data feedback in inspection mode

Status:	**Anomaly** 3530
Description:	Changing the encoder polarity to "invert" can causes no data feedback in inspection mode for configuration with Time Reversal activated.
Bypass:	Use encoder in "normal" polarity for inspection mode.

Can't change channel using the "current channel" menu

Status:	**Anomaly** 3499
Description:	When multiple channel including at least one TFM channel, It is not possible to switch configuration parameters between channel using the menu Channel/Current Channel.
Bypass:	Click on the frame of the channel you want to select.

NDT Sweeper – One wire index encoder needs to be reversed

Status:	**Anomaly** 3523
Description:	For NDT sweeper that are auto-detected, the encoder index resolution is positive (normal) but should be negative (inverted).
Bypass:	Invert index encoder polarity to reversed after the auto-detect of the scanner.

Quality

All work is performed in accordance with Zᴇᴛᴇᴄ Quality standards program, which complies with 10CFR50 Appendix B, ISO 9001:2015 and ISO/IEC 17025:2017.

Toll free: 800.643.1771 (USA)

ZETEC

info@zetec.com

www.ZETEC.com