

## RELEASE NOTE

# UltraVision software version 3.12R18

This document describes the main enhancements of UltraVision version **3.12R18 released in April 2023**.

## Compatibility

All applications and data files generated in UltraVision 3.2 and above are fully compatible with UltraVision 3.12R18, files generated in UltraVision 3.1 and below remain compatible for data visualization.

## Equivalency statement

UltraVision 3.12R18 is the latest upgrade for the UltraVision software both for the Touch and Classic versions. This software release includes several new features and improvements. Eddyfi's hardware and software development process is performed according to a quality system that is certified ISO 9001-2015.

With this certified software development process, Eddyfi guarantees that the changes between the previous UltraVision versions (3.5R10, 3.6R1, 3.6R5, 3.7R1, 3.7R21, 3.8R7, 3.8R11, 3.8R13, 3.8R16, 3.8R30, 3.9R9, 3.9R20, 3.10R7, 3.10R20 and 3.11R4) to UltraVision 3.12R18 have no consequences on the sensitivity and the accuracy of the signal amplitude and flight time outputs displayed, recorded, or automatically processed by the software. This also includes additions of mathematical modules used for the positioning of indications or for geometric conditions adjustments.

## List of new features

Functions and improvements listed hereafter are available for both UV Touch and UV Classic versions. Nevertheless, TFM functions are only compatible with Topaz64 and Emerald units.

## TFM enhancements

- Automatic frame size calculation for TFM
- Improved TFM images calculation speed
- Raw Data Saving (FMC) increased performance
- DMA configurations available for PWI/TFM

## Generic & ergonomic features

- S-Scan view smoothing for PA channels

## Modifications of existing features

- N/A

## Fixed issues

- Issue #3206 - FMC Beam summation when first element is not 1 gives wrong results
- Issue #11828 - Splitter - Topaz16 64/64 - Wrong last 3 elements for 32 pulser configurations
- Issue #14274 - No probe cursors update in pause mode with sweeper or Paintbrush
- Issue #14286 - PA and TOFD inspection - Scan scales not linked in analysis mode
- Issue #15637 - No cursor in Calculator views if not UV3-3D
- Issue #16883 - Issues with custom resolution of TFM frame
- Issue #17488 - TOFD: UT Scale reset to Half Path mode by the calculator

## Limitations and remaining anomalies

- Issue #602 - Incorrect signal when first element of sweeping (linear) TFM is not 1
- Issue #5906 - Volumetric Merge: Sectorial interpolation gives wrong results when skewed beams are presents
- Issue #5978 - QUARTZ - Incorrect TCG in Parallel firing mode
- Issue #15646 - Error message in case of Compound to TFM setup
- Issue #17493 - TOFD: Wrong initialization of the 2nd Channel in the calculator

- Issue #23739 - Reports: Specimen does not give thickness for pipes in the report

## Installing UltraVision on TOPAZ

To install the downloaded version on your TOPAZ:

- Save the file and unzip it on a USB drive.
- Connect the USB drive to your TOPAZ.
- Go to TOOLS > SYSTEM and click on System Update.
- In the dialog, you should already see the TOPAZ 3.12R18 installer from your USB drive, but if not, click on the arrow at the top-right corner of the dialog until you see your USB, and select the TOPAZ 3.12R18 installer.
- Click Install.

Note: TOPAZ (1st generation) does not support 3.12R18.

## System requirements

The following PC specifications are recommended for running UltraVision software:

- Windows 10 Pro (64 bits edition)
- Quad-core i7 3.6 GHz processor (Intel processor mandatory)
- Minimum of 16 GBytes RAM
- High-speed (1 Gb/s) Ethernet link
- High performance graphics card (Nvidia® Quadro® M2000M w/4GB GDDR5)
- High performance SSD (Solid State Drive) 256 GB or bigger

For any questions, remarks or support needs, please contact us at [support@eddyfi.com](mailto:support@eddyfi.com)