

ULTRAVISION® V3.15R10 RELEASE NOTES

Release date: July 17th, 2026

Build version: v3.15R10

Compatibility

All applications and data files generated in UltraVision 3.2 and above are fully compatible with UltraVision 3.15R10, files generated in UltraVision 3.1 and below remain compatible for data visualization.

Equivalency Statement

UltraVision 3.15R10 is the latest upgrade for the UltraVision software both for the Touch and Classic versions. This software release includes several bug fixes. 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, 3.11R4, 3.12R18, 3.12R22, and 3.12R27) to UltraVision 3.15R10 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 when used with TOPAZ64 and Emerald instruments. This also includes additions of mathematical modules used for the positioning of indications or for geometric conditions adjustments.

New Features

- Support for FIPS-enabled environments
- AI-powered flaw detection and sizing in UltraVision through TrueFlaw
- Support of Panther instrument in UltraVision to acquire and save data
- Introduce a preliminary version of ATFM with Panther, including TCG support
- Support live acquisition and data saving with Panther in UltraVision using advanced TFM algorithms, including TFM, CF, SCF, PCF, PCI, and SCI
- Support FMC/TFM and PWI/TFM acquisitions with 128-element pulse-echo probes on Panther
- Support opening and analyzing Capture 5.1 data in UltraVision
- Software gates for Panther live TFM channels (PWI/TFM and FMC/TFM)
- Self-Diagnostic report for the Emerald Instrument

Resolved Issues

- **#3-651** Incorrect gate signal position on TOPAZ64 and Emerald when using compression setting 2
- **#3-1909** Gain linearity issue for PR1 and PR2 on TOPAZ64 and Emerald
- **#3-1664** TFM channel creation on the second device in Multi-Emerald configurations
- **#3-816** Recording issues with conditional recording mode "Channel (gate X)"
- **#3-1937** Restored DGS operation in recent UltraVision Classic versions
- **#3-943** and **#3-1342** Issues with the support of J-weld and pipes with axial J-Weld
- **#3-1060** Elbow flex: abnormal operation of the clicker
- **#3-1795** Exception when clicking on "Import Profile" in Specimen Generator Tool
- **#3-1070** Exception when performing ACS calibration with Distance time base in Touch PC
- **#31271** and **#3-2048** Improved Rule-Based Automated Analysis performance for Weld and HAZ

Known Issues & Remaining Anomalies

- **#3-1737** Installer appeared frozen while waiting for a hidden HASP key dialog in the background.
- **#3-895** Connection to UltraVision may hang if Panther is powered before the PC
- **#3-2127** Per-law manual TCG editing for Panther TFM is not available when All Laws is unchecked
- **#3-937** ACS calibration details may be missing from reports
- **#3-1840** Assisted Analysis import settings may retain values from the previously loaded file
- **#3-933** Errors may occur in C-Scans of soft gates homed on hard gates in sectorial channels
- **#3-1271** Opening some large data files may cause high memory use and application freeze
- **#3-865** Averaging may affect signal amplitude and position with Panther
- **#3-1485** Panther homing gates may fail to detect signals if the gate end extends outside the timebase
- **#3-1482** Activating a gate by setting its homing reference may give the wrong detection position
- **#3-508** An exception may occur when creating a 9th channel with Panther
- **#3-1506** Signal may become incorrect when using a very long timebase at specific digitizing frequency with Panther
- **#3-691** Filters applied on one Panther channel may in some cases affect other channels
- **#3-2120** Signal rendering may be incorrect at the lowest digitizing frequency in Panther TFM/PWI pulse-echo setups
- **#3-849** Wrong displayed voltage and voltage unit may appear with TOPAZ when changing connector type in the calculator
- **#3-687** Soft C-Scan processing may not complete after a gate reset sequence
- **#3-810** Signal may slightly shift when comparing rectified and smoothed display with Panther
- **#3-1026** Issues remain when editing and saving asymmetric plate butt welds (V and J)
- **#3-971** TFM data collection mode remains locked to FMC
- **#602** - Incorrect signal when first element of sweeping (linear) TFM is not 1
- **#30257** Generate Specimen Surface and Thickness feature is not working
- **#30415** Saturated signals may occur with offline TFM data reconstruction from live PCI channels
- **#30771** For PWI configurations with 4 focal laws or fewer, manually reduce Recurrence to Auto to avoid slowing down acquisition on TOPAZ64 and Emerald

- **#31291** Difficulty using splitter with TOPAZ16 64/64 and TOPAZ64 64/64 configurations
- **#31318** Remove any license key from the PC when installing a new version of UltraVision
- **#31737** Minor compatibility issues remain with modified V and J welds created in UV 3.12R22 and later when loaded in previous versions
- **#3-1866** Capture/Acquire data files opened in UltraVision may have some compatibility limitations

Additional Notes

- A **valid UltraVision license** is required to use **Panther** with UltraVision. Connecting Panther hardware does not replace or bypass the UltraVision licensing requirement.
- The algorithm previously labeled **PCI** in earlier versions is now labeled **PCIB**. This change improves naming consistency with the actual algorithm behavior and helps preserve predictable setup handling across software versions.
- The offline algorithm previously labeled **PCF** is now labeled **CF**. This change improves naming consistency with the actual algorithm behavior and helps users better interpret differences between offline and live results.
- When installing the new version of UltraVision on PC, make sure that no license key is connected to the PC.

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 3.15R10 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 3.15R10 installer.
- Click Install.

Optimal System Requirements

- **Operating System:** Windows 10 (or 11) Pro (64 bits edition)
- **Processor:** Quad-core i7 4.0 GHz or better (Intel processor mandatory)
- **Memory:** 64 GB RAM
- **Network Interface:** 10 Gbit Dual port Ethernet card with SFP+ Connector's
- **Graphics Card:** High performance (Nvidia® RTX® 4000 series, 24G)
- **Storage Drive:** High performance SSD (Solid State Drive) 1 TB (ex.: M.2 2280 PCIe Gen4 TLC)

Recommended System Requirements

- **Operating System:** Windows 10 (or 11) Pro (64 bits edition)
- **Processor:** Quad-core i7 3.6 GHz processor or better (Intel processor mandatory)

- **Memory:** Minimum of 16 GB RAM
- **Network Interface:** High-speed (1 Gb/s) Ethernet link
- **Graphics Card:** High performance graphics card (Nvidia® Quadro® M2000M w/4GB GDDR5) (For Panther: Nvidia® RTX® 3000 series or better)
- **Storage Drive:** High performance SSD (Solid State Drive) 256 GB or bigger

Optimal System Requirements for the Panther instrument

- **Operating System:** Windows 10 (or 11) Pro (64 bits edition)
- **Processor:** Intel Core i7 or Intel Core i9
- **RAM:** 32GB, 2x16GB, DDR4, 3200MHz
- **USB:** USB-A 3.0 (equivalent to USB-A 3.2 Gen 1)
- **Graphics Card:** NVIDIA GeForce from RTX 1000 to RTX 4080 (or industrial Nvidia equivalent)
 - Nvidia drivers upgrade could be required to compute TFM on GPU
 - Required driver version: 520.61.05
 - More information on <https://www.nvidia.com/en-us/drivers/>
- **Storage Drive:** SSD, 1To, NVMe

For any questions, remarks, or support needs, please contact us at support@eddyfi.com