

CYPHER[®] V1.1 RELEASE NOTES

Release date: October 29th, 2025

Build version: v1.1

Cloud-based Licensing System

This software is now activated through a cloud-based licensing system. Please contact your Eddyfi Technologies sales representative to learn how to access this latest version.

New Features

- **DMA Support:** Enable inspections on complex material parts with DMA configurations and related calibration tools.
 - TRL probes included in the probes & wedge database and fully customizable
 - Linear, Sectorial & Compound scan law. TFM and PWI imaging
 - Beam skew management in PAUT and PWI
 - V-path depth scale accessible
- **Multi-Language Accessibility:** Support multiple languages to expand global reach.
 - Chinese, Korean, Spanish, French, German, Japanese and Portuguese available in the options panel
- **Connectivity Enhancements:** Enhance the User experience on the collaborative work.
 - Zoom: Live screen sharing and remote control for real-time expert support.
 - OneDrive: Instant file sharing from field to office for faster collaboration.
- **Cypher PC License-Free Mode:** Allow non-licensed users to open data, to create indications and to generate reports.
 - Setup builder is still under Companion license
- **Paintbrush Support:**
 - Support the PaintBrush scanner (PaintBrush2 & PaintBrush legacy of Zetec)
 - Allow inspectors take advantage of PaintBrush's agility on flat surfaces, curved plates, and pipes directly within Cypher's workflows

Improvements

- Real time gain modification using the wheel knob.
- Save & load custom probes, wedges & scanners.

- Quick wedge filter in the database based on probe compatibility.
- New palettes added.

Resolved Issues

Calibrations:

- **#3297:** Sensitivity & TCG calibration may cause beam saturation.
- **#3147:** Detection mode in calibration always at maximum, whatever is selected.
- **#3455:** In specific setup, TCG dynamic merge data is not shown.
- **#3472:** Encoder calibration with imperial units is not working.
- **#3476:** TOFD calibration not applied properly if TOFD probes are not created before groups edition.
- **#3489:** Sensitivity calibration is not available.

Home panel:

- **#3222:** The time of file creation and modification is not displayed in the file preview on the home panel.

Setup Builder:

- **#2820:** Back and forth between PAUT and conventional UT configuration may lose the display, and applied values are not the same.
- **#2732:** Focal laws calculation may not work properly when using Distance timebase.

Analysis:

- **#3356:** TOFD Geometry parameters are not correct when data is reloaded. Reports are also affected.
- **#3475:** Position C-scan not working if compression is higher than 2.

System:

- **#2383:** Cypher OS doesn't always stop with closing the application (remain open on a blank screen).

Known Issues & Remaining Anomalies

Home panel:

- **#1955:** Removing the USB drive during a file or folder copy/move operation may cause an exception.

- Workaround: Ensure the USB drive is not removed during file or folder transfer to prevent potential issues.
- **#3142**: The analysis file (.utextension) is partially managed with its associated datafiles (.utdata) on different actions (USB export, folder change, remove, etc).

Acquisition:

- **#3739 & #4102**: deported buttons on scanner are not working.
 - Workaround: Use the command *pause/resume* or next line directly on the touchscreen.
- **#2801**: Differential gates not activable (C-scan & info fields).
 - Workaround: Use synchronizing to monitor the depth difference between two gates.
- **#3359 & #4317**: Instabilities with the connection with the Navic.
 - Workaround: Force the reconnection.

TFM:

- **#3344**: Gain can be changed and impact views on PCI technique.
 - Workaround: Do not change gain with the PCI groups.
- **#2933**: The sectorial view in the analysis menu is not usable for TFM or LW0° and may cause a crash when interacting with cursors or switching to Side Merge and End Merge.
 - Workaround: Use the more efficient End view in the analysis menu for TFM or LW0° groups.
- **#3382**: The sectorial view in the analysis menu is not usable for TFM or LW0° and may cause a crash when interacting with cursors or switching to Side Merge and End Merge.
 - Workaround: Use the more efficient End view in the analysis menu for TFM or LW0° groups.
- **#4000**: The views might be empty if the PWI or the TFM is computed with a single shot.
 - Workaround: Set at least 2 shots in PWI or 2 elements in TFM.

Analysis:

- **#2933**: The sectorial view in the analysis menu is not usable for TFM or LW0° and may cause a crash when interacting with cursors or switching to Side Merge and End Merge.
 - Workaround: Use the more efficient End view in the analysis menu for TFM or LW0° groups.

System:

- **#2937**: Batteries display on the system bar can take up to 30s to be refreshed after a battery hot swap.
- **#3282**: Software may look frozen when clicking on the layout selector button. Clicking inside views remains active, but all other buttons are irresponsive.
 - Workaround: Wait a few seconds for software to react.
- **#3031 & #2755**: The virtual keyboard may not appear when attempting to modify certain text fields.
 - Workaround: Reboot the instrument or plug an external keyboard.
- **#4310**: Noisy fan even when the Cypher is not being used heavily.

Minimum System Requirements

- Processor: Dual core CPU @2GHz
- Operating systems: Windows 10 (64bits) or Windows 11
- Memory: RAM 8GB
- Disk space: 8GB
- Display: minimal screen size: 1280x800
- Administrator rights: Required for installation and software activation of Cypher Companion

Recommended System Requirements

- Processor: Quad core CPU @2.4GHz
- Operating systems: Windows 10 (64bits) or Windows 11
- Memory: RAM 16GB
- Graphics card: Not used for processing
- Disk space: 32GB - SSD
- Administrator rights: Required for installation and software activation of Cypher Companion