

Eddyfi Magnifi[®] 4.8R24 Release Notes

Released on: March 23, 2022

Minimum System Requirements

- **Processor:** Core i5 (or equivalent)
- **Operating systems:** Windows[®] 8.1 and Windows 10 version 1607 (Anniversary Update)
 - **Note:** The software is tested and optimized for most major language packs available on the Windows suite.
- **Memory:** 8 GB
- **Graphics card:** GPU with DirectX 11 support
- **Disk space:** 20 GB
- **Network:** Built-in network card
- **Display:**
 - **Screen size:** 13"
 - **Resolution:** 1366 × 768 pixels
 - **Display scale:** 100% (Windows preferences setting)
- **Administrator rights :** User must have local administrator permission on the computer to install and use Magnifi

Recommended System Requirements

- **Processor:** Core i7 (or equivalent)
- **Operating systems:** Windows 10 (latest version)
 - **Note:** The software is tested and optimized for most major language packs available on the Windows suite.
- **Memory:** 16 GB
- **Graphics card:** Dedicated GPU with DirectX 11 support
- **Disk space:** 100 GB
- **Network:** Built-in network card
- **Display:**
 - **Screen size:** 15"
 - **Resolution:** 1920 x 1080 pixels
 - **External monitor:** 22" or larger, with a minimum resolution of 1920 × 1080 pixels (for extensive analysis purposes)
 - **Display scale:** 100% (Windows preferences setting)
- **Administrator rights :** User must have Administrator permission on the computer to install and use Magnifi

Firmware

Included in this release of Magnifi is the following package:

Eddyfi Ectane® 2

- Version: 2.1R6 (update the firmware on first connection to the Ectane 2)

Ectane

- Version: 1.8R5.1 (same version as for Magnifi 3.5R15)

New Features and Improvements

Generic

- **3D C-scan view: Major improvements in regards with usability and new controls: ***
 - **Zoom in/out: Right-click and drag**
 - **Pan: SHIFT + Left-click and drag**
 - **Rotate: CTRL + Left-click and drag**
 - **Move data: Left-click and drag**
 - **Centre: Spacebar**
- Default Master List includes a default 41-pin MS5800 setup
- New “Get Assistance” feature for improved troubleshooting/support experience

Tubing Applications

- New RFT dual receiver probe added to wizard

Surface Applications

- **Revised Sharck-HR setup files with improved depth sizing algorithms ***

Modifications to Existing Features

- After creation of new tubing setups with the Wizard, strip charts display the signal’s vertical component by default. Also, they automatically display the channel names and frequencies.

Dropped Features

- “Save data” button in the Sharck ribbon of Magnifi R removed.

Resolved Issues

- **Resolved the 3D C-scan display issues (related to Windows 10 drivers) causing Magnifi to freeze or crash and many visual glitches (ex: flickering background color) ***
- **Resizing the C-scan cursor with a right-click no longer opens the contextual menu ***
- **Sharck Fillet Weld probe displays the right number of Transverse channels ***
- **Iris projection views correctly refreshed when moving the cursor in the C-scan view ***
- **Scan properties of Pipescan-HD (MFL) setups fully updated when changing the probe model from the Wizard page ***
- **Resolved many setup compatibility issues for Pipescan-HD (MFL) probes ***
- **Length landmark calculated info field available for Tubing probes ***
- Resolved various 2D C-scan issues affecting mainly, but not exclusively, tubing inspections:
 - Circumferential ruler displaying the correct range
 - Indication boxes positioned correctly
 - Easier resizing of the cursor
 - Etc.
- Correction to prioritization rules (selection of displayed pixel) when zooming out on large C-scans
- Subtraction cursor calculations correctly applied and correct display of the cursor
- Proper execution of differential coefficient process modifications in *Advanced C-scan*
- Raster scanning click-to-index mode adjusted to keep gaps between passes consistent
- Memory leak issues resolved
- Iris:
 - Mini cursors synchronize between the projection views
 - Displayed values in info field and reported values synchronized
 - WT info field displays the right value when the D-scan is hidden
 - Size and WT values shown in cases where backwall echo is missed
 - WT and WL value in projection views refresh when moving cursor in C-scan view
- Large window size supported for median filters in Advanced Processed Channels
- Closing data processing window executed properly
- No data file duplication when adding indication or renaming file
- Some actions (add a defect, tag as NDD, screen capture, etc.) are now fixed to act on first click
- Liftoff assistant no longer displays intermittent error messages
- Best fit function works without error notifications
- Software update through the “Check for update” menu functional
- When adding voltage plane to layout, associated control buttons are automatically displayed
- Calibration values correctly applied during C-scan calibration in EDF measurement convention
- Sharck™ wizard made inaccessible to avoid generating a faulty setup
- Fix to indication boxes in C-scan disappearing between acquisitions
- Maximum scan size reduced in raster scan mode with Spyne

Known Issues, Limitations, and Restrictions

- **Effects of the 2D C-scan view's subtraction cursor is not applied to the 3D C-scan view ***
- Data saving not available when in Cal.check mode and Lift-off assistant mode
- 2D and 3D polar C-scan display issues (related to Windows 10 drivers)
- Loss of signal amplitude on transmit-receive channels with I-flex topology when SDL or SDD used simultaneously with ABS topology
- Report generator does not support high quantity of indications with screenshots
- Cursor indicating current position of probe does not display in C-Scan view during acquisition
- Code view does not display C-scan saturation information
- Encoded tubing array scans contain display and synchronization between views issues (code view scrolling, slew, etc.)

***Marked items are new to this release (R24). Other items were updated in previous releases of 4.8.**