



Magnifi 3.4R10 Release Notes

System Requirements

- Supported operating system: Windows® 7 (32-bits and 64-bit editions)
Although **Magnifi** has yet to be tested on Windows 8, it should run without problems.
- Processor: Core i5 or above (or equivalent)
- Memory: 4 GB (8 GB recommended)
- Minimum disk space: 500 GB
- Network: built-in network card (recommended; USB-to-network adaptor also acceptable)
- Display: 13 in or larger monitor (15 in recommended)
For extensive analysis purpose, we recommend using an additional external monitor, 22 in or more with a minimum resolution of 1920 × 1080 pixels.
- Minimum resolution: 1366 × 768 pixels

Firmware

Included with this release of **Magnifi**, comes the following firmware:

Ectane 2

- Firmware version: 1.5R3. **Update your firmware as soon as possible.**

Ectane

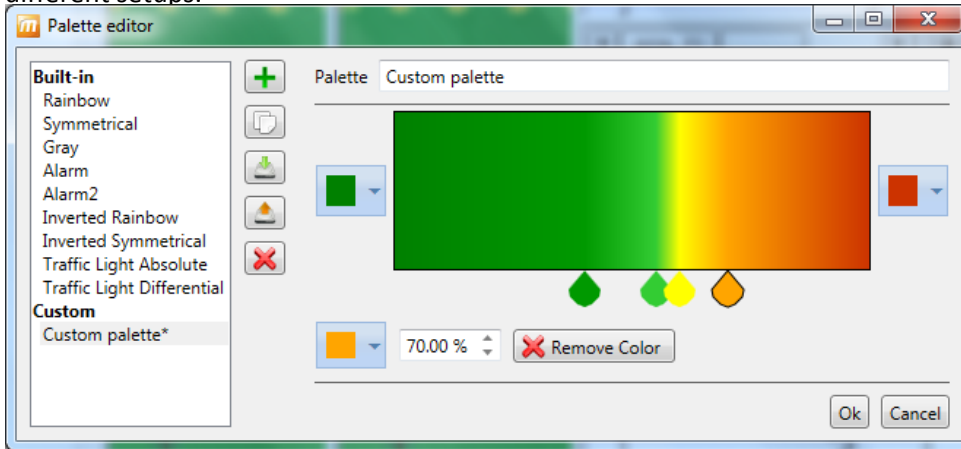
- Firmware version: 1.1D1T26. You do not need to update your firmware if you are using **Magnifi** 3.3R3 or later. Otherwise, you **must update your firmware to the version included in this release.**

New Features and Improvements

- **Ectane® 2 Integration**
 - Hardware alarm configuration
 - Control of rotating probe drive
 - Control of saturation source
 - New input/output settings
 - Extended frequency range
 - Extended gain range

- **Improved Color Palettes**

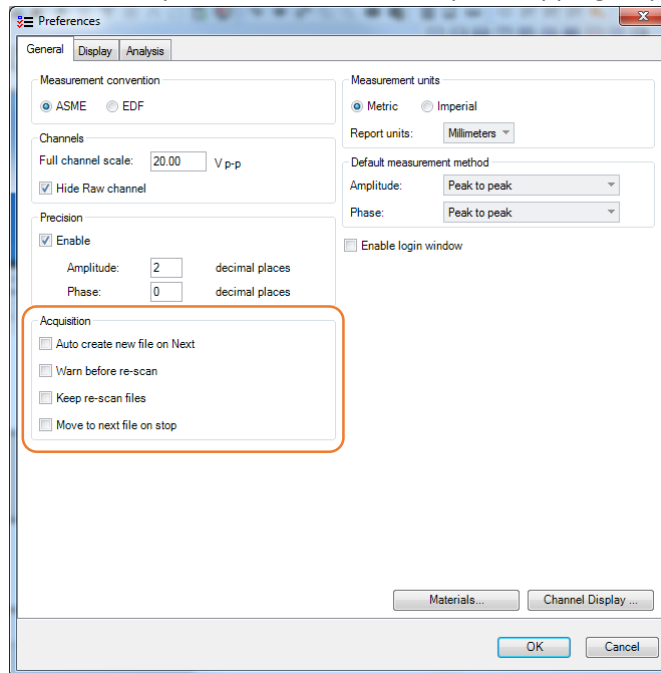
You can now create new color palettes, customize color ranges, and import/export palettes in different setups.



- **New Acquisition Preferences**

To simplify the acquisition process, especially during one-man operation, it's now possible to:

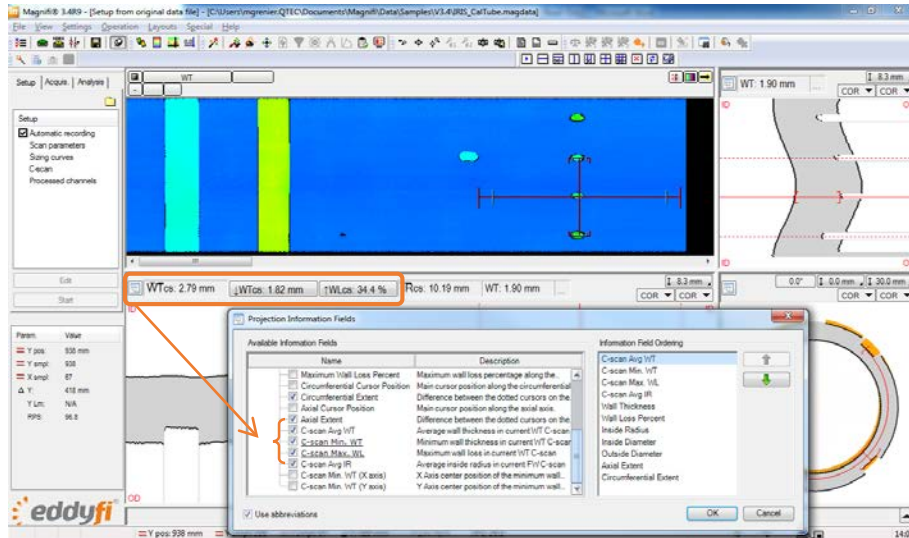
- Allow automatic file creation on **Next** command
- Activate and deactivate the overwrite warning before rescanning
- Keep rescan files on your hard disk drive
- Automatically move to the next file upon stopping acquisition





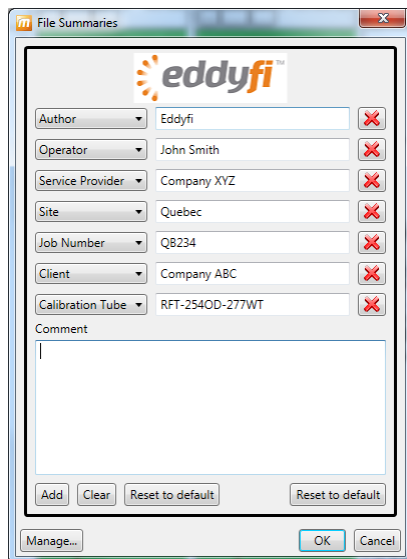
- **IRIS C-scan View Statistics**

New projection information fields to display calculated values on C-scans. The minimum C-scan WT and the maximum C-scan WL behave as buttons to move the cursor to the corresponding pixels.



- **Acquisition Summary**

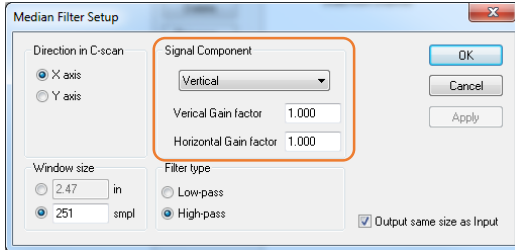
The default acquisition summary can now be embedded in data. You can add and modify available fields.



- **Improved C-Scan Median Filter**

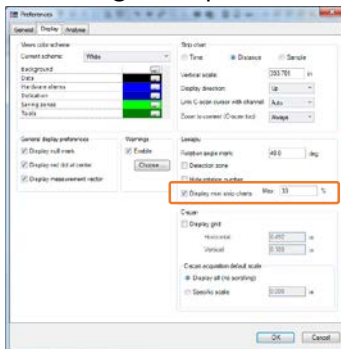
It's now possible to enable the C-scan median filter for specific components of signals (horizontal or vertical). This can prove useful when monitoring lift-off variations on the

horizontal axis while applying a high-pass filter to detect defects on the vertical axis.



- **Adjustable Mini Strip Chart**

New global preferences to modify the aspect ratio of the mini strip charts in the Lissajous view. Increasing the aspect ratio allows longer mini strip charts.



- **Instant Screen Captures**

In one click, the complete Magnifi window is captured and the image is saved in the inspection project's folder named as the current data file (026032.001.jpeg). Several screen captures in the same data file have incremental names (026031.002.jpeg, etc.).



- **New Measurement Mode Conventions**

- ASME
- EDF mode
- EDF mode with inverted cursor

Modifications to Existing Features

- The window to configure the digital inputs and outputs of the test instrument is now named **Instrument I/O** instead of **Remote Controls**.
- Removed **Lissajous plot enhancement** from C-scan median filters. This ensures that the best representation is always selected.
- Setup wizard



- For tubing applications, the duration of strip charts is automatically suggested based on the tube's length and the estimated speed of the probe.
- For **DefHi** probes, the C-scan and strip chart views offer better synchronization.
- In the IRIS wizard, when the turbine size is configured as **Other**, the probe delay is very short to accommodate custom turbines.

Dropped Features

None in the version.

Resolved Issues

- File management: tooltips not functional when hovering over *.magdata* and *.magsetup* samples.
- Material database: resolved problems in adding new materials, name conflicts, and the **Browse** button.
- Probe database: resolved probe conflicts that sometime occurred with surface array probes.
- Setup wizard:
 - Default layout for pencil probes
 - Unit conversion
 - Encoder settings for surface array probes
 - Calculated low-pass filter for RFT probe was improved
 - Resolved specific workflow error when the RFT setup frequency was modified
 - Better setup management when switching from single to dual-driver RFT probes
 - Correction of the coil position offset for **DefHi** probes
- Data acquisition:
 - Missing points in strip charts when there is saturation
 - Intermittent behavior creating a very long delay when stopping acquisition, resulting in an error message and Magnifi shutting down.
- Processed channels:
 - Resolved sporadic crashes when manipulating new process units
 - Resolved cutoff value for the Filter process used during encoded scans
 - RFT processing fails after clicking the **Cancel** button
- Encoder: wrong Ypos position in strip charts when the acquisition clock is based on encoder movement.
- Scan parameters: resolved refresh problem when switching from the internal clock to the external clock.
- C-scan process:
 - Flaw Location Program detection and defect merge
 - **Median Filter** window
- RFT inspection: resolved intermittent crash when disabling first driver while connected to the **Ectane**.



- Display:
 - Rotation in the Lissajous view by using the **Angle** button
 - Refresh problem when using two Lissajous views for the same channel
 - Some NVIDIA graphic boards cause problems with 2D and 3D polar C-scan views

Known Issues, Limitations, and Restrictions

- New statistics for the IRIS C-scan view are calculated from the data in the C-scan cursor. This is a temporary behavior. In forthcoming releases, these statistics will be calculated from the current C-scan view.