M2M CAPTURE SOFTWARE VERSION 3.1
RELEASE NOTE

Capture is the embedded UT software in GEKKO and MANTIS PAUT units and is also available for PC. This document describes the main enhancements of Capture version 3.1 released in March 2020.

System requirements

Capture V3.1 is compatible with all MANTIS and GEKKO units delivered or upgraded since June 2017.

Older models include 32 bits OS and cannot be updated anymore. However, system upgrade or replacement can be proposed on demand. Please contact us at commercial-M2M@eddyfi.com for further information.

Software requirements

Your GEKKO or MANTIS system must be in version 2.3.5 or above to allow the install of Capture version 3.1. If your software version is below 2.3.5, please contact us at support-m2m@eddyfi.com to allow the upgrade of your system.

Important information:

- A new Capture version that includes advanced analysis features is now available: it is called **Capture PRO**
- As v3.1 contains important upgrade, it is not permitted to downgrade the Capture version to an older one. However, downgrade between 3.1.x hotfix versions remains authorized.
- All previous app or inspection files remain compatible with Capture version 3.1.x.
- The acquisitions done in 3.1 can be opened from ENLIGHT version 1.4.X.

New features

Note: functions and improvements described hereafter are available for all GEKKO and MANTIS configurations. Nevertheless, some functions depend on the package purchased concerning the TFM & ATFM features and the advanced analysis tools.

❖ FMC/TFM enhancements

- **Plane wave imaging (PWI)** transmission mode
- **Grid verification wizard** (amplitude fidelity check – ASME/ISO compliant)
- **Scan speed optimization (x2)** for grid size < 65k pixels
- **FMC/TFM setup information update**

	MANTIS w/o TFM option	MANTIS with TFM option	GEKKO w/o TFM option	GEKKO with TFM option
TFM-PWI transmitting mode				X
TFM-Increased speed for res < 65k pixels				X
TFM-Grid verification tool (amp. fidelity)		X		X
TFM-setup information		X		X

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- Ergonomics & setup enhancement
  - **Entry echo straightening** when using synchronization gates
  - Synchronized TCG
  - **Heat affected zone (HAZ)** display
  - Capture files management- multiple file manipulation
  - PRF management per group with live max scan speed info
  - Probe and scanner database update
- Analysis tools
  - Enhanced readings banner
  - Enhanced indication table
  - Indication creation from cursors
  - Indication auto-sizing (at -XdB)*
  - Thickness & overlay color edition
  - Data report and indication table export in excel
  - C-Scan stitching *
  - Data projection in 3D view *

*Features available in the new Capture PRO version only

Modifications of existing features

- Last modification done in analysis kept in inspection
- Possibility to "Save as" modifications realized in analysis
- Define a different encoder type (quadrature or clock+dir) for each encoder
- Indication peak/flank detection now based on the gate detection mode
- Bi-color cursors for better visibility on views
- Default missed data display mode set on all views
- Missed data indicator highlighted in red when a frame is missed
- Longitudinal weld configurations now support angle wedges with customizable length
- Nozzle probe positioning compatible with front wedge reference
- Improved TOFD data quality

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Known issues

- Latencies in the Home panel when too many app/data files are stored
- Auto-TFM mode with Mantis – incorrect pixel size display
- Random artefacts displayed when refreshing views in analysis
- FMC recording limitations
- Synchronized gate positioning limitations
- View refresh rate in analysis when displaying a 3D view
- PWI calculation needs to be recomputed when going back to the setup

These issues will be fixed within a few weeks through a Capture 3.1 hotfix release.

For any questions, remarks or support needs, please contact us at support-m2m@eddyfi.com

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