Eddyfi Technologies

NEW FEATURES DESCRIPTION
CAPTURE v5.0

December 4th, 2024

NEW FEATURES LIST

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This document introduces the new features in Capture version 5.0 released on December 2024.

Capture v5.0 is compatible with all Gekko, Mantis & PC under eligible for update.

Please refer to the release note for more information.
For any question or support, please contact us at support@eddyfi.com.

Connectivity tools (OneDrive & WiFi)

New Capture UI

TFM + TOFD inspection
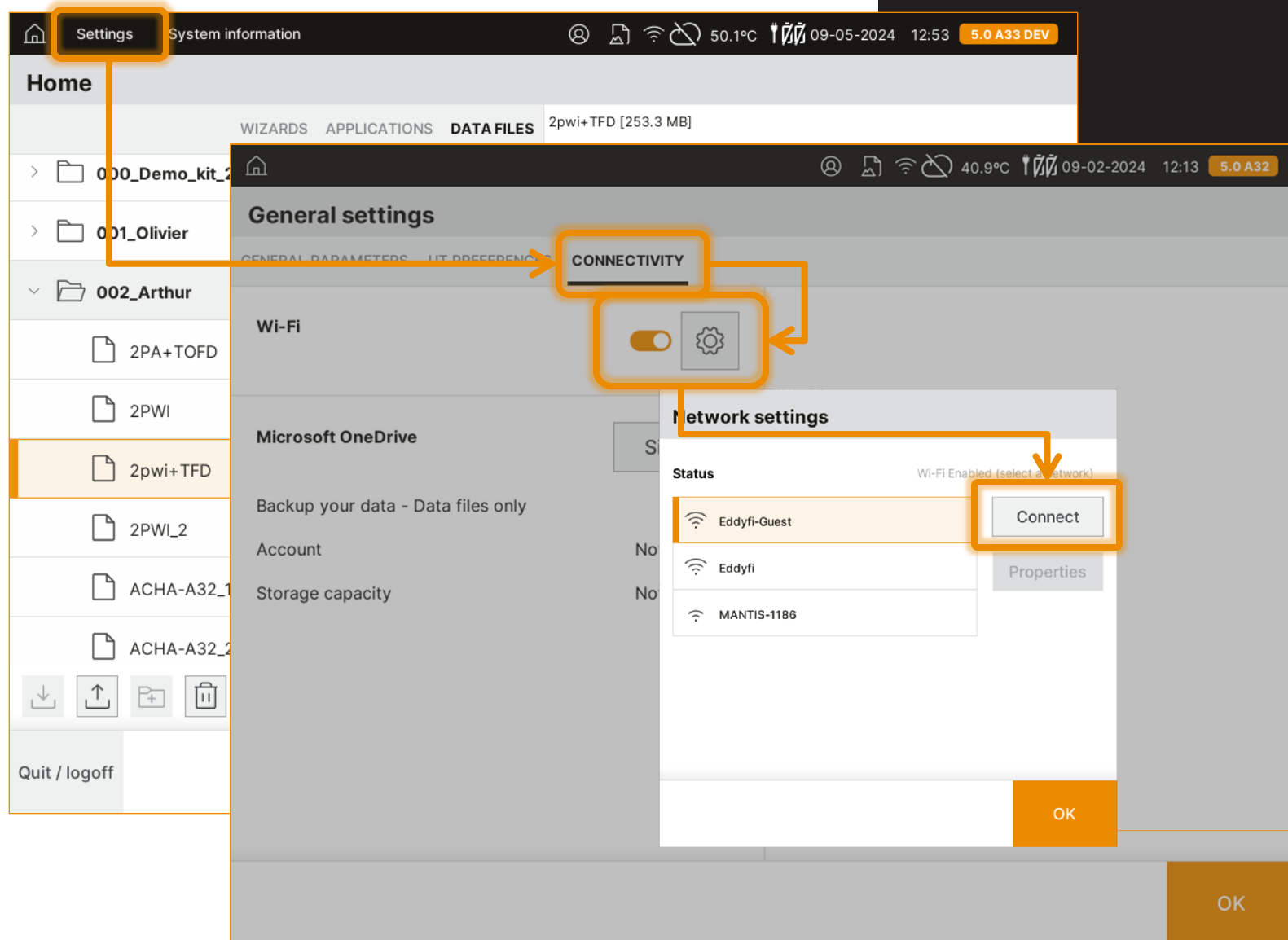
Specimen views & View fuision

Ergonomics & shortcut

CONNECTIVITY #1
WI-FI CONNECTION

The Gekko and Mantis can be connected directly from the Capture UI.

How to connect the unit to the WiFi:
- Go into the **System information** (button in the top left toolbar)
- Select the **Connectivity** tab
- Enable the Wi-Fi and press the gear to select the router
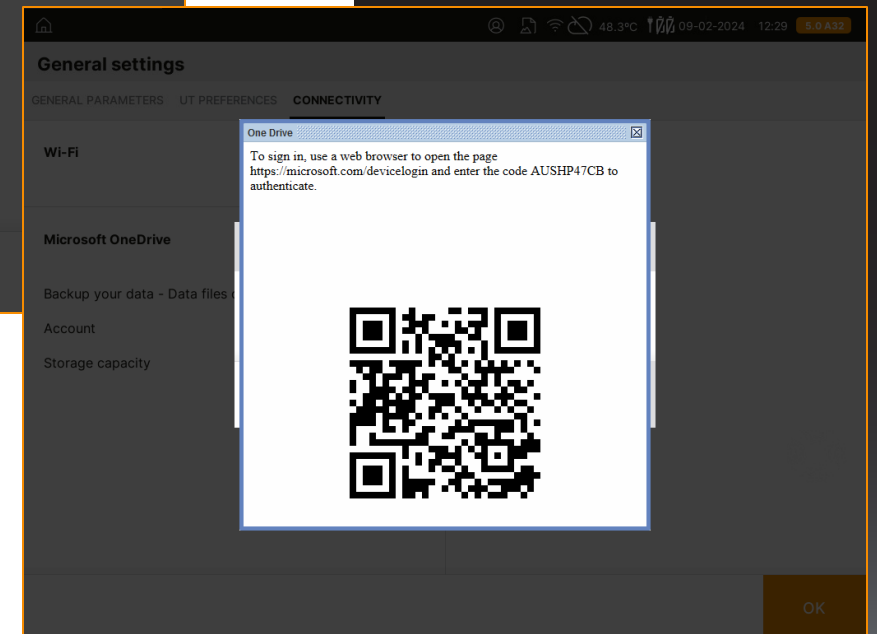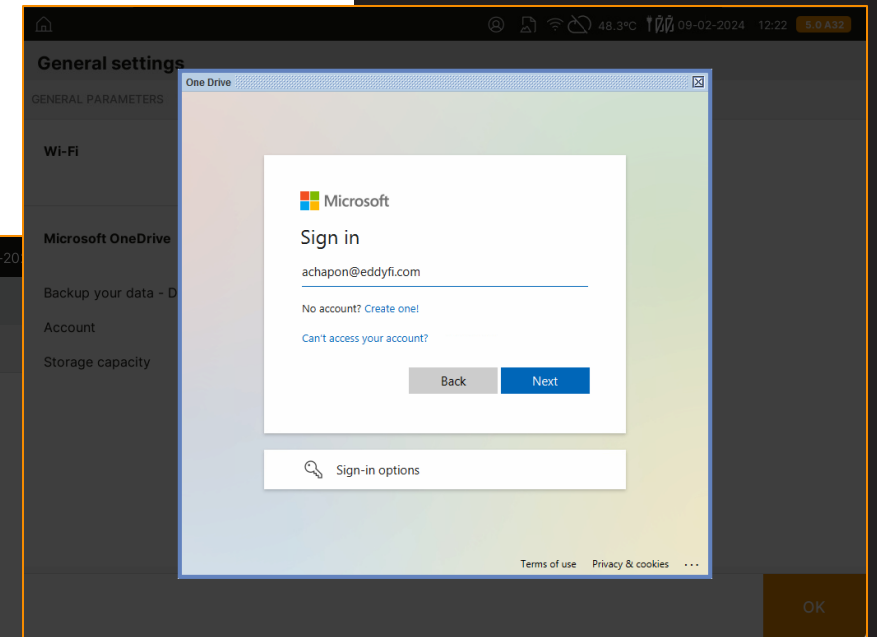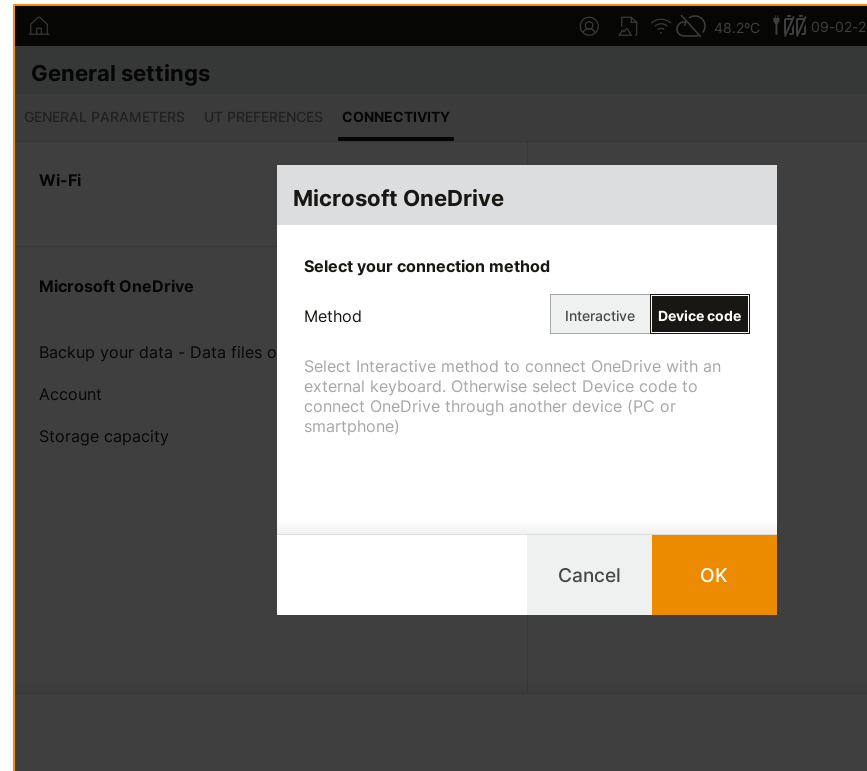
CONNECTIVITY #2
ONE DRIVE (1/3)

It possible to connect Capture v5.0 with Microsoft OneDrive to transfer data file without using USB drive.

Two connection modes are available:

- Interactive when a keyboard can be plugged on the instrument
- Device code when an external device can confirm the connection

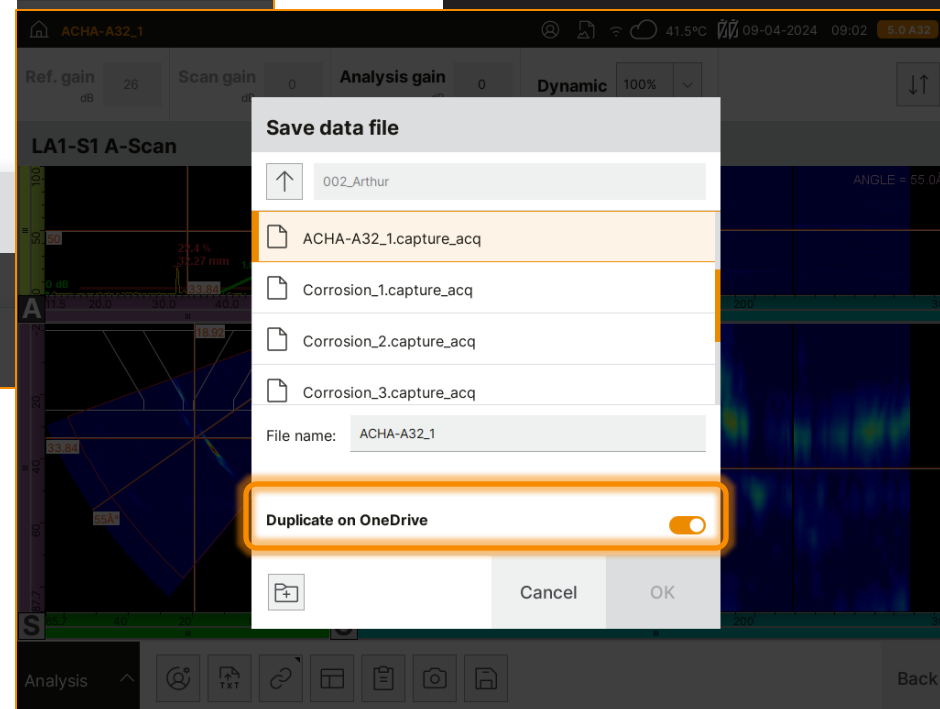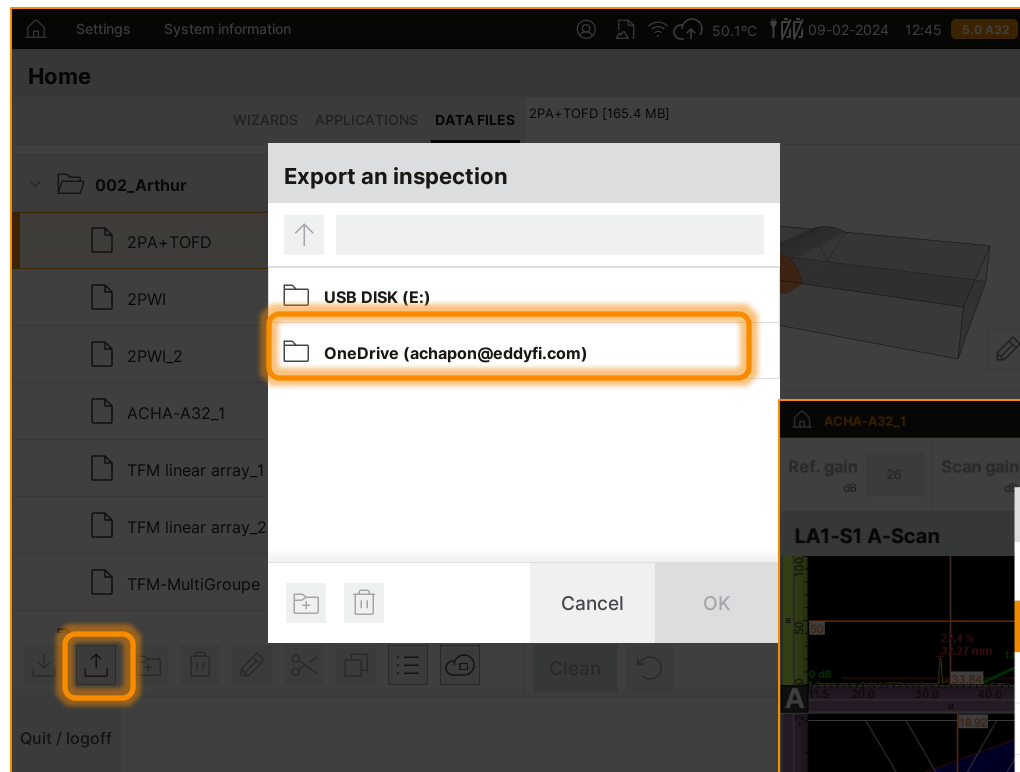**A Microsoft account is required to use this feature.**

CONNECTIVITY #2
ONE DRIVE (2/3)

The data transfer is done in background without interrupting the workflow.

- From the home panel, the files can be sent to the cloud in batch or one by one as to transfer to a USB drive.

- After an inspection or an analysis, it is possible to duplicate the file on the cloud and directly continue to work on another inspection file.
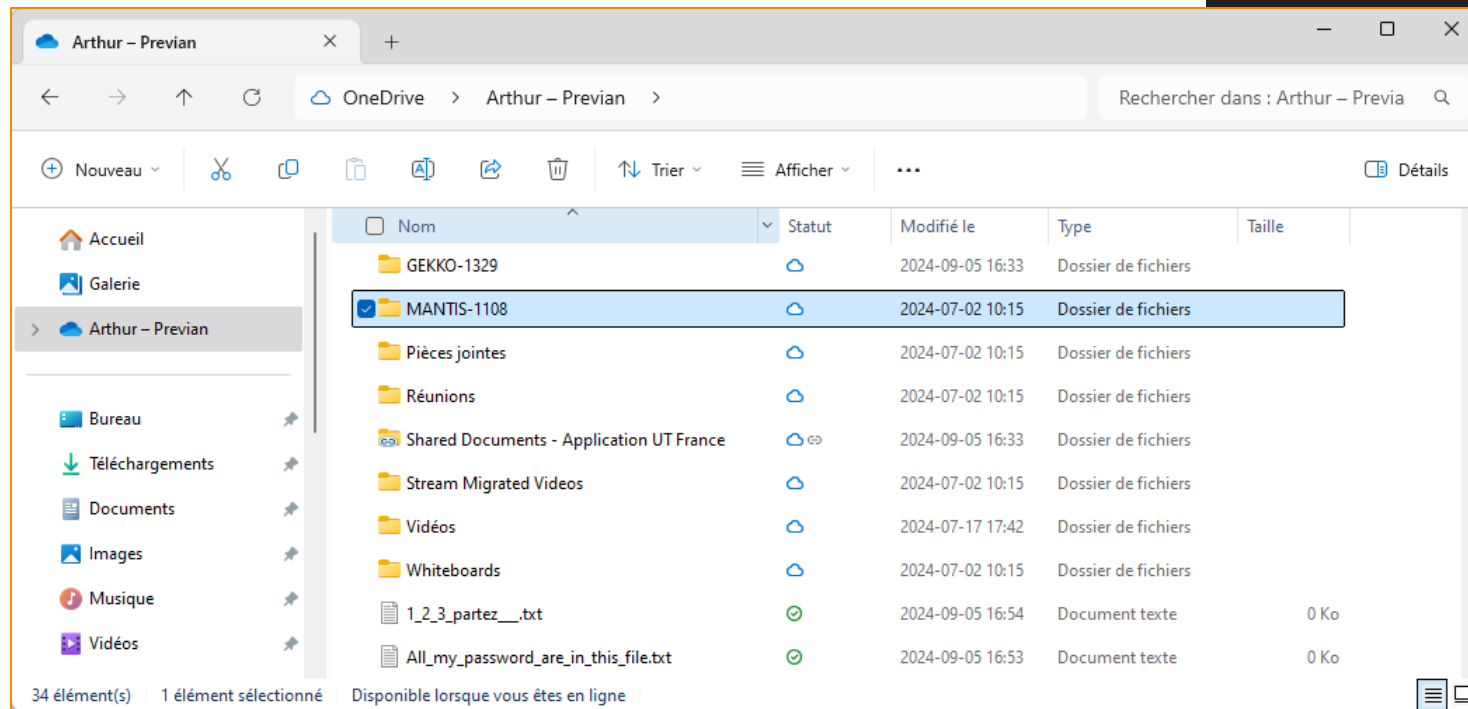
CONNECTIVITY #2
ONE DRIVE (3/3)

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The data file is sent in the cloud of Microsoft OneDrive.

- A folder is automatically created at the first connection from the instrument.
- The name of the folder is the serial number of the instrument.
- The structure of the folder respects the structure of the

This feature is not a synchronization on the OneDrive. A file modified in the Gekko will not be automatically synchronized, a re-upload is needed. If the name does not change, the file on One Drive is replaced.
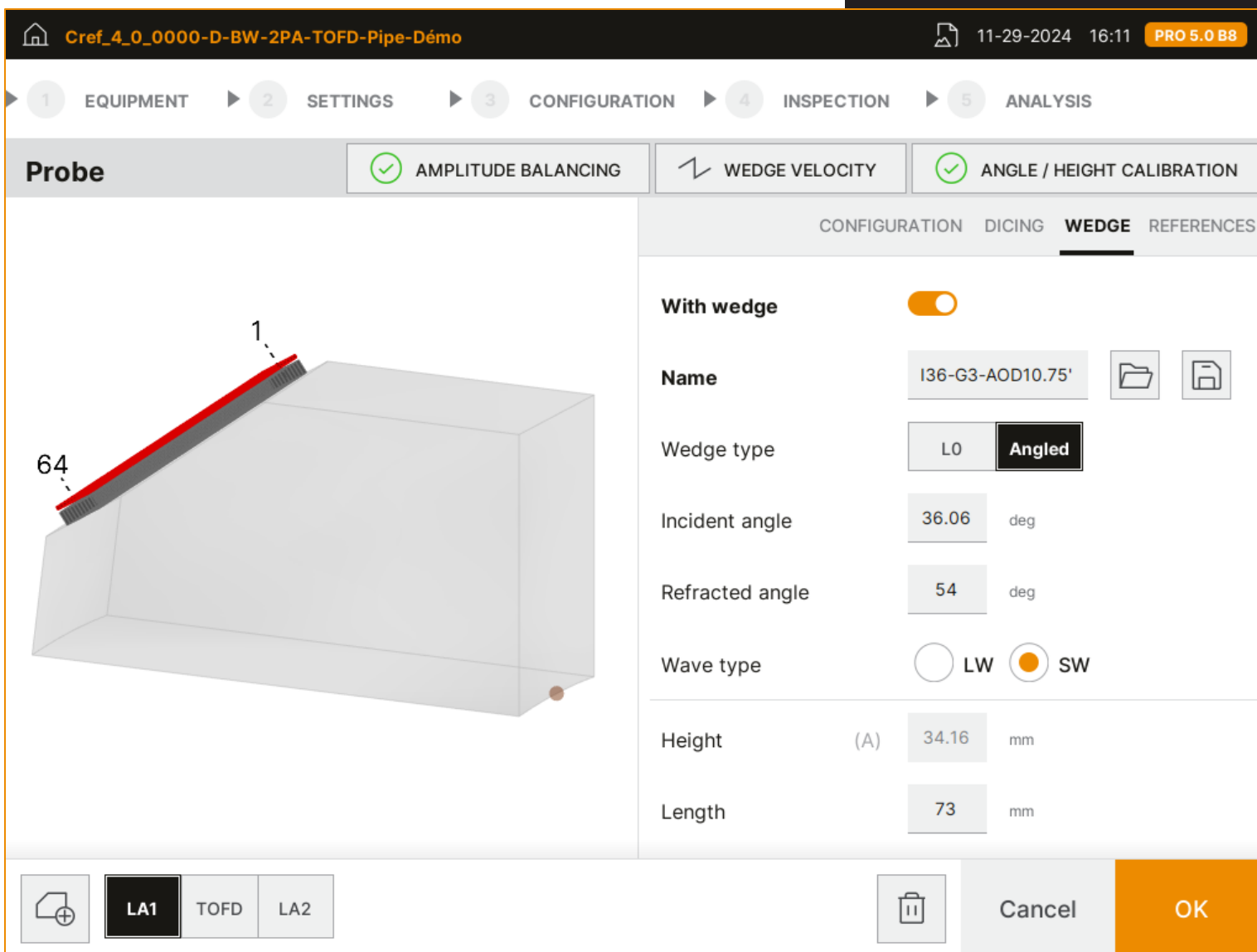
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UI #1
NEW USER UI (1/2)

Capture v5.0 displays a new "Look & Feel" for its 10th birthday.

Why a new Capture UI:

- Harmonize the Eddyfi UI
- Increase contrast for external use
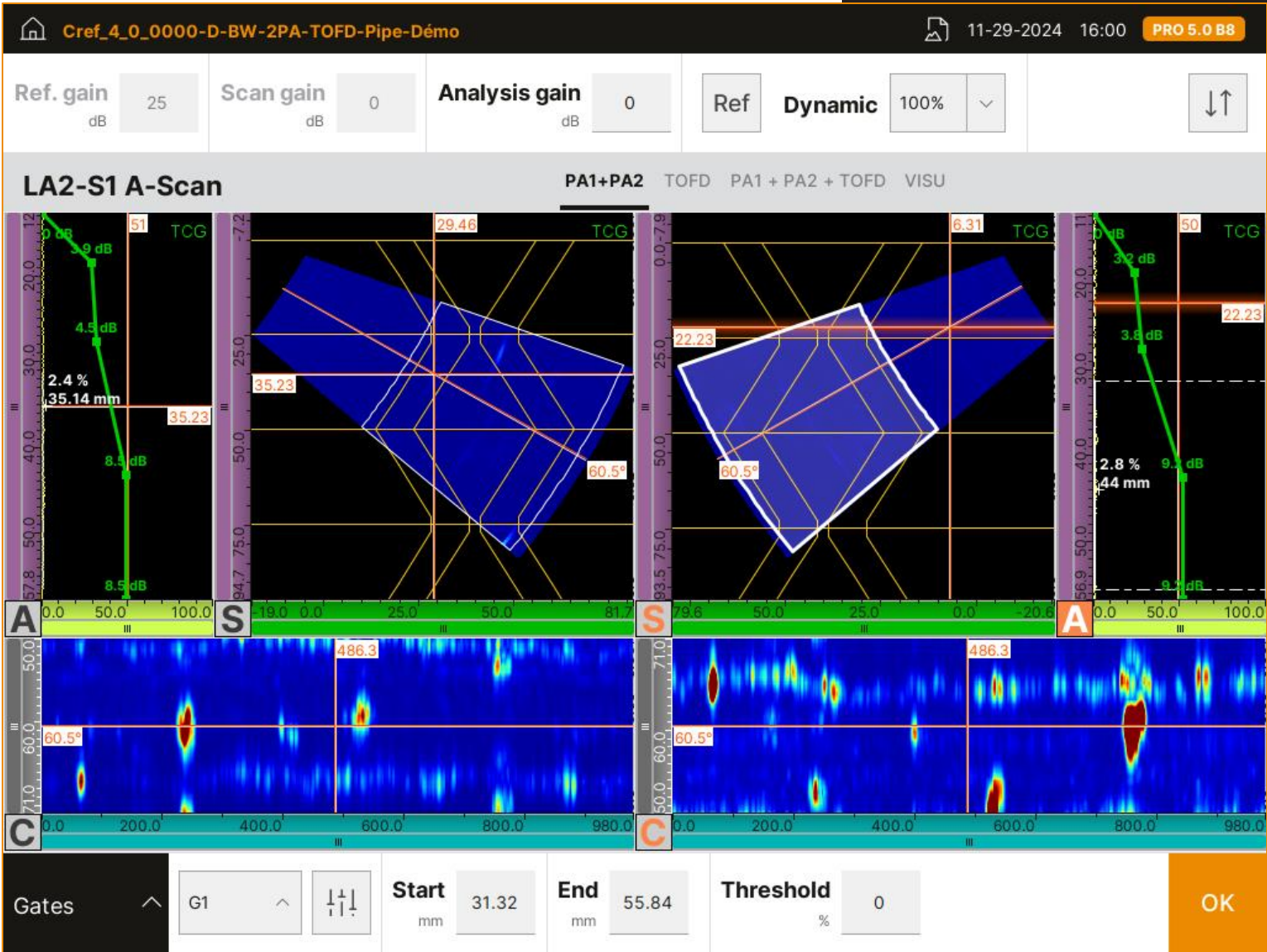- Improve the User experience where possible and optimize some interface

UI #1
NEW USER UI (2/2)

In order to help user, the view scales are now confrom to the standard of the industries.

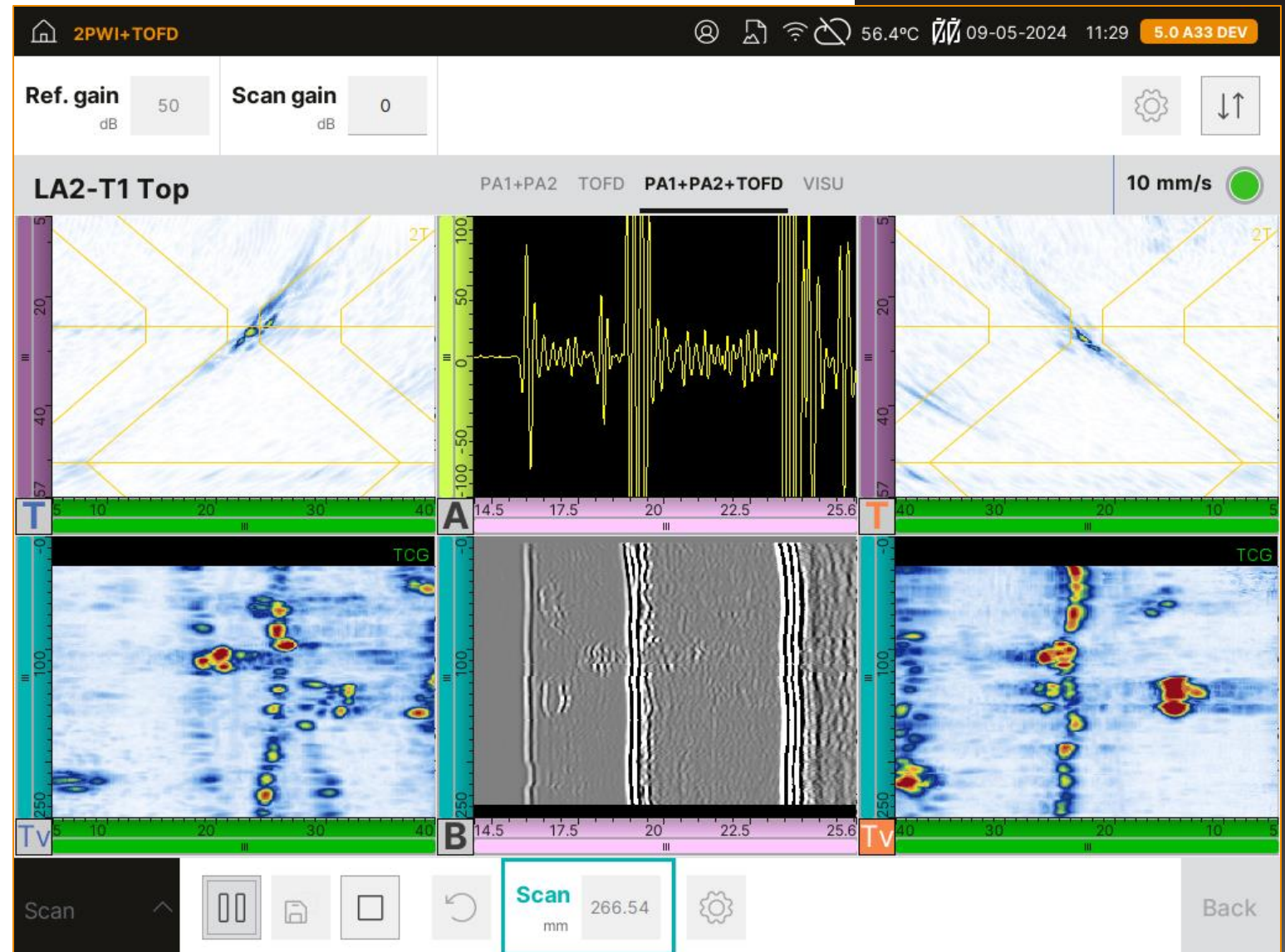|	
Scan	
Index	
Depth	
Depth (TOFD)	
Sound path	
Time of flight	
Shot	
Amplitude	
Frequency	

TFM #1
TFM+TOFD

Capture v5.0 adds four conventional UT groups to the four possible TFM groups in all Gekko and Mantis.

How to add TOFD probe to a TFM set-up:
- In the Probes panel, add a pair of TOFD probes by loading it from the database or creating it from scratch
- Calibrate or adjust the PCS in the TOFD settings
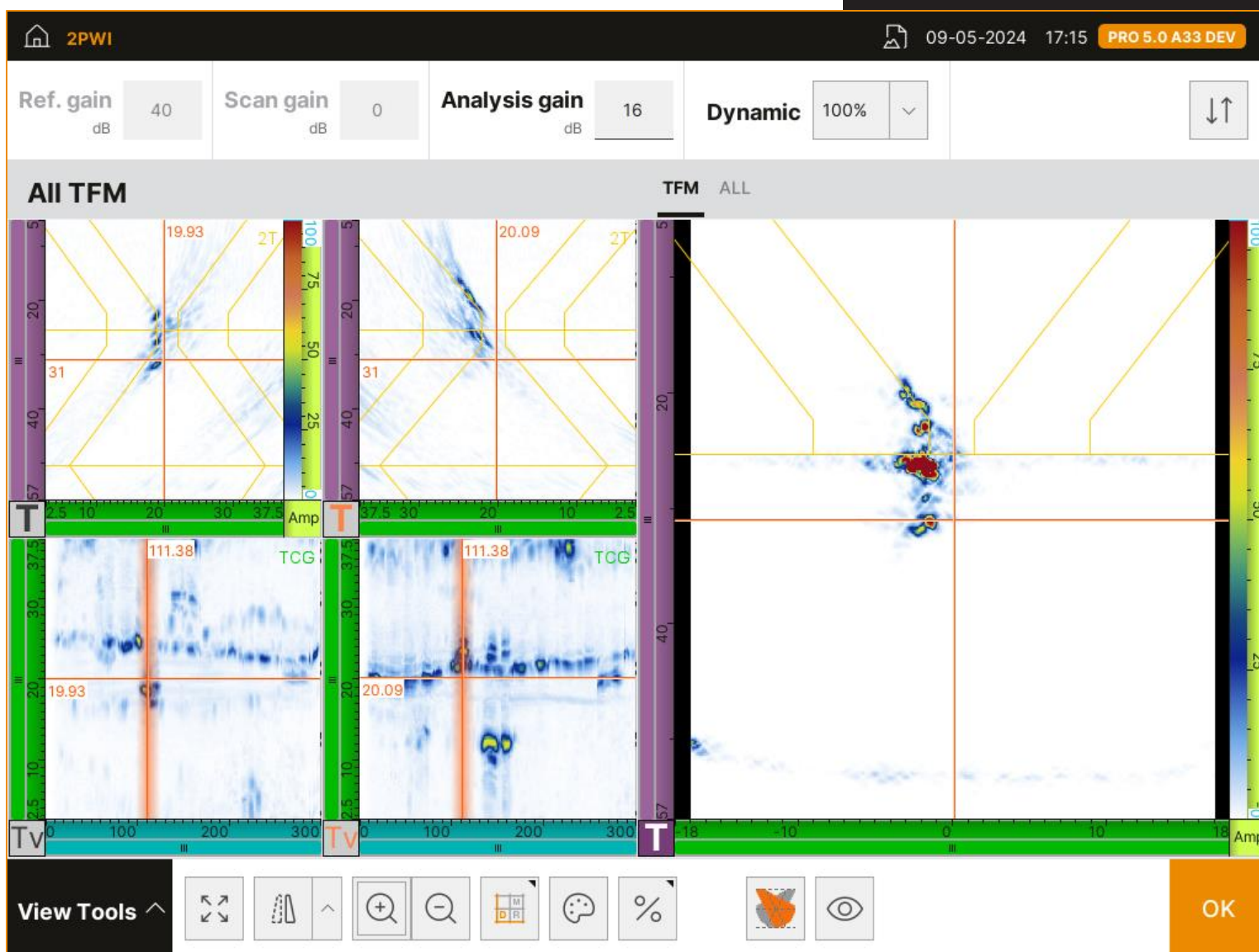- Do not forget to add the TOFD views in the Display panel

VIEW #1
VIEW FUSION (1/2)

Capture v5.0 offers an offline mode to fusion data from different PA or TFM groups.

How to fusion views:

- Create a multigroup PAUT or TFM set-up and collect data

- In the **Display** panel, add a view for the group All PA (or All TFM)

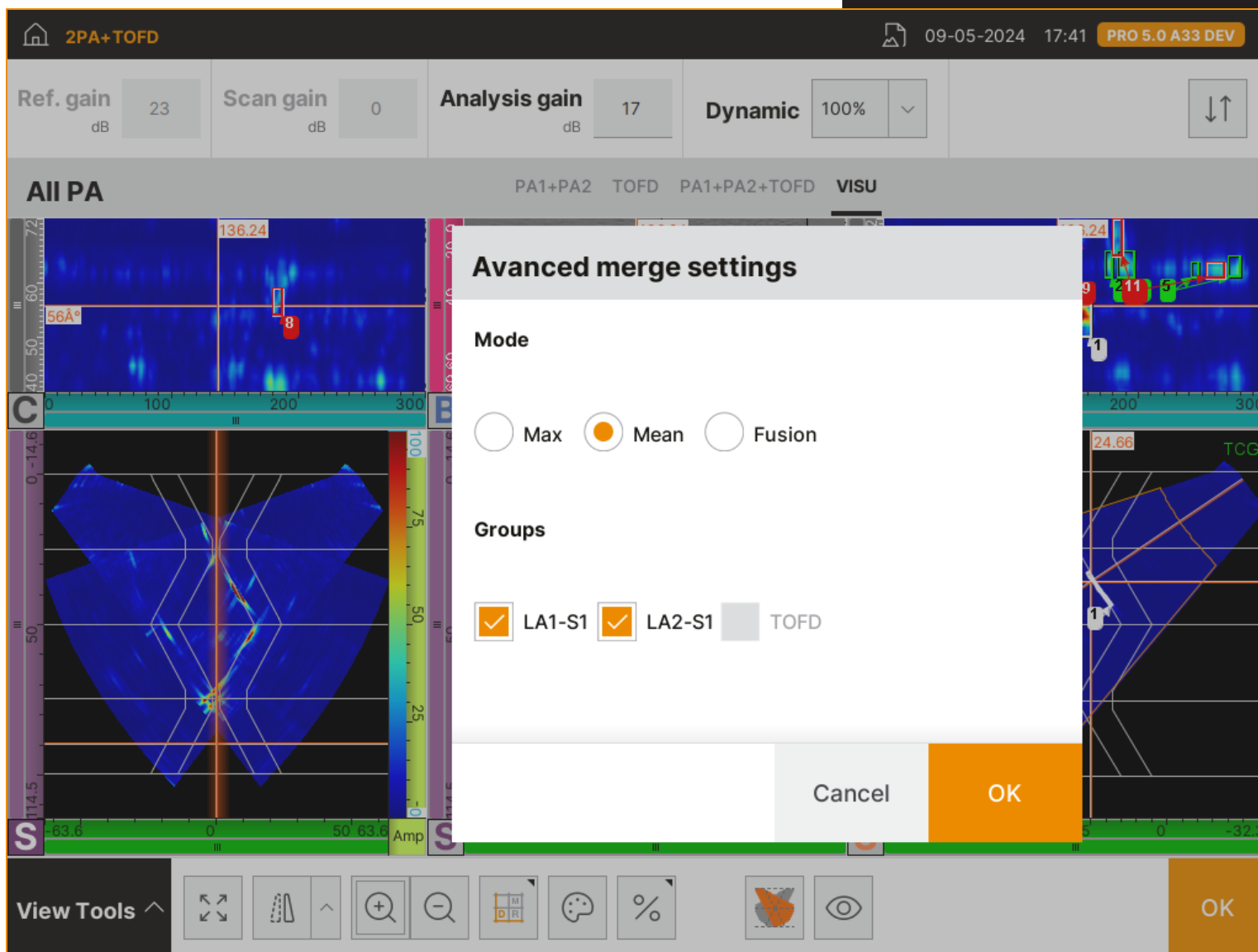- In analysis, the view merge data from the groups

VIEW FUSION (2/2)

Different fusion modes exist depending on the need and the inspection

The groups can be disabled to not impact the view.

- **Max** takes the maximum value between all the groups

- **Mean** shows the average of all the groups among the

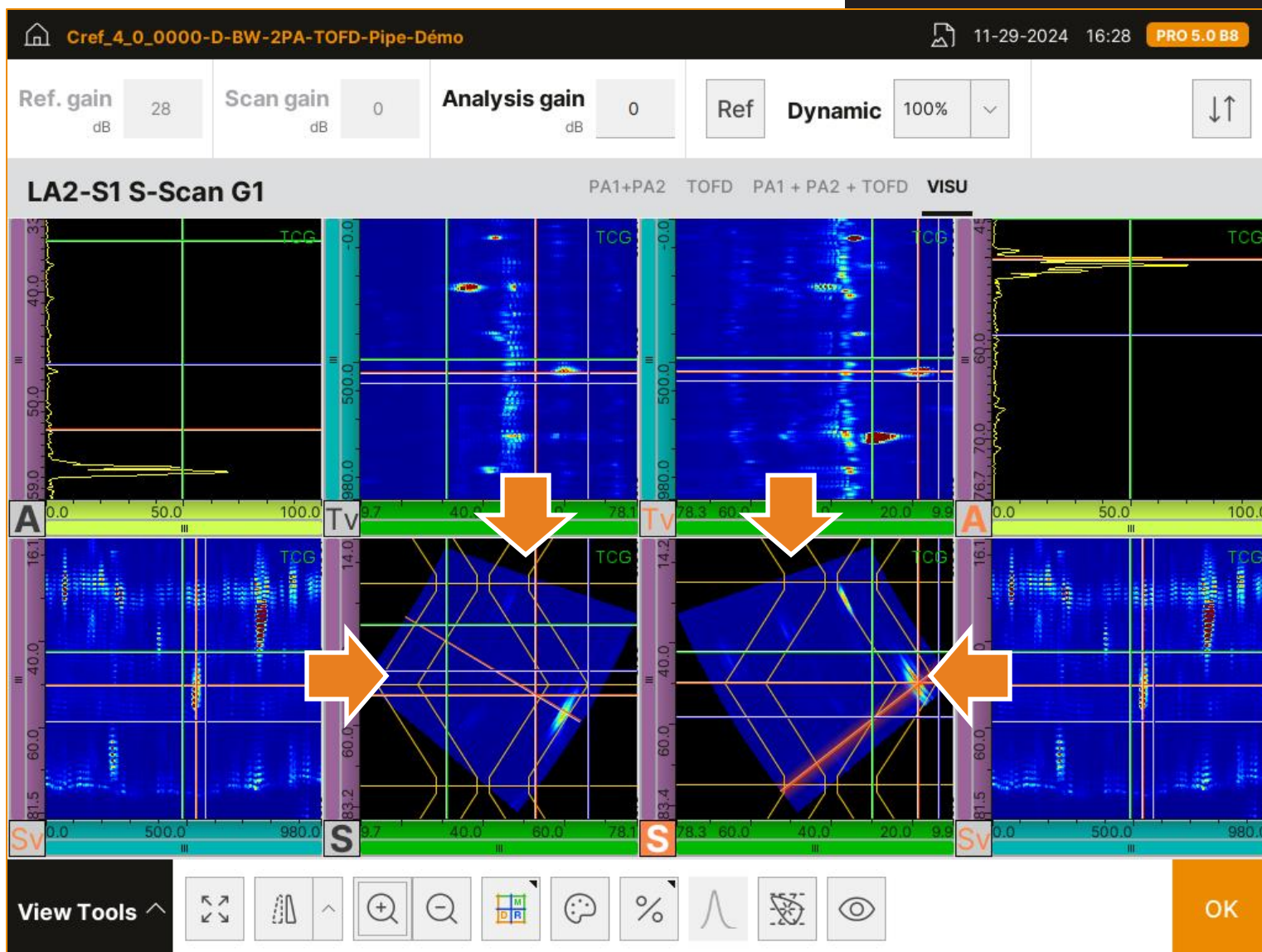- **Multi** algorithm make a correlation (a sort of product) between the data

VIEW #2
SPECIMEN VIEW

Optimized specimen view (Top and Side) are now available Capture 5.0 and strongly more efficient.

How to use the specimen views:

- Enter in the layout management panel to select the Top or Side view.

- These views are now available in real time for classic PAUT weld inspection, TFM.

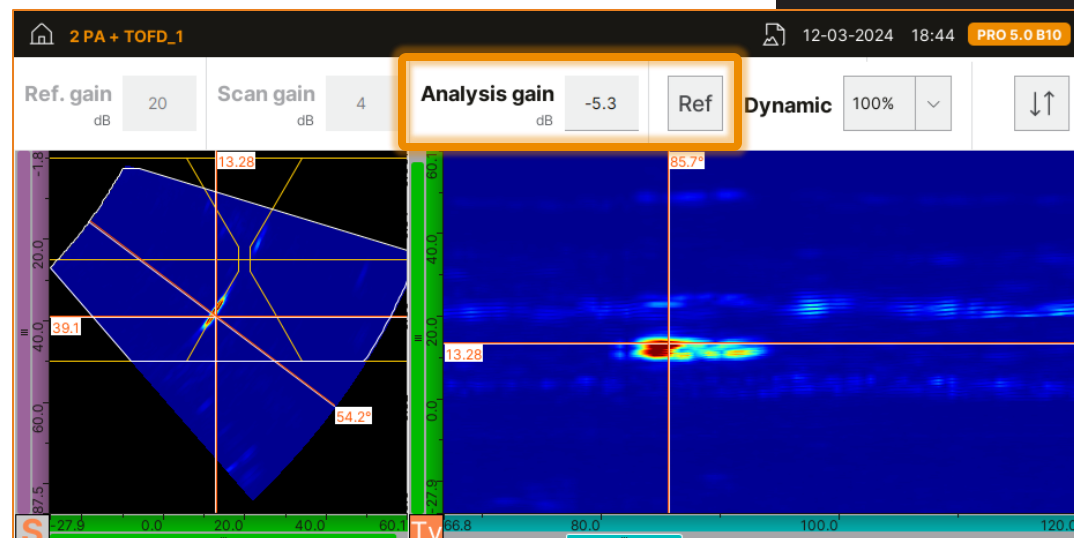- All standard classic view tools are plugged including the zoom link.

ERGONOMICS & SHORTCUT #2
UX IMPROVEMENT

1) with *Ctrl* or *Shift* pressed to accesDouble-clicks the "Measure" and "Reference" cursors.

2) Set the amplitude signal in the gate G1 at the reference level with the "Ref" button.

3) Improved scan speed in PAUT and TFM inspection.

4) Data file management: Capture files are now stored in a single file (and not in a repository).
•   Extension for a setup file: *.capture_app
•   Extension for a data file: *.capture_acq
The Capture files produced with Capture v3.0 and older are compatible with Capture v5.0. A conversion button is available to optimize the file management.