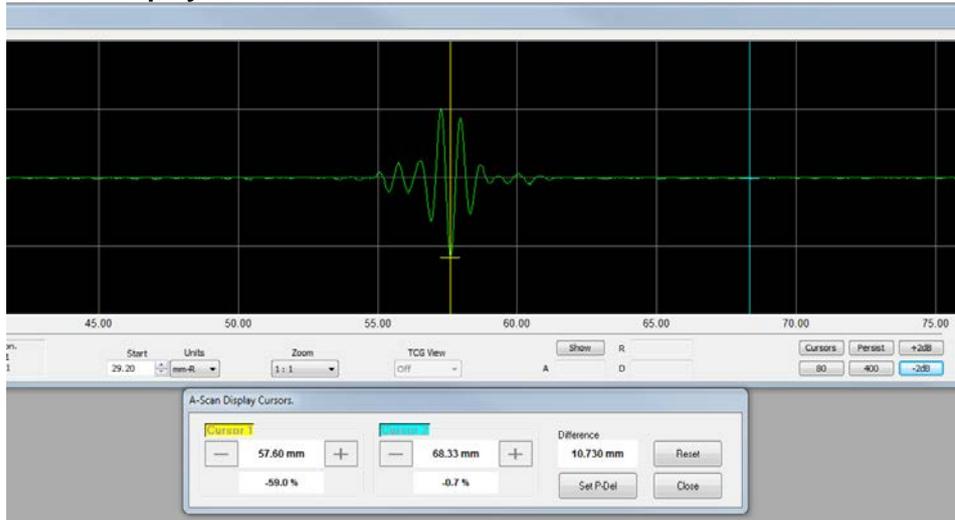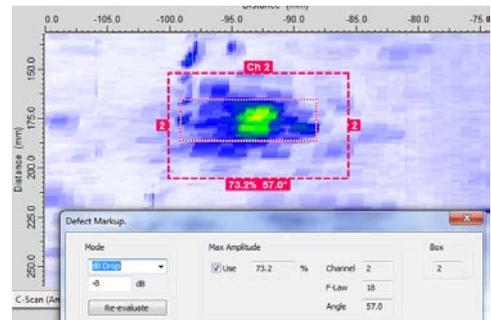# TD-Scan v19.13 Overview

Date   20 – March – 2017.

- **A-Scan Display cursors.**

1. A small horizontal line is now drawn where the signal crosses the cursor.
2. The amplitude of the signal at the cursor is displayed in the dialog box.
3. The "spin" controls for moving the cursor position have been replaced with large plus & minus buttons for improved touch screen operation. (*Note: The cursors can still be moved by dragging them with the mouse*).
4. The text boxes have been replaced for new versions with a larger font and improved touch screen operation.
5. Cursors 3 & 4 have been removed.
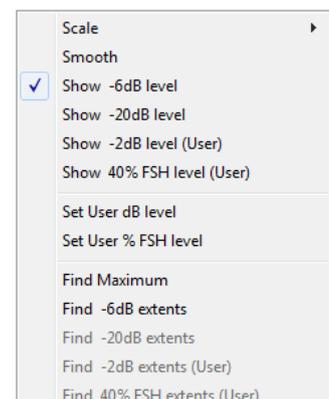
- **Super-View Indication Mark-up.**

1. The max amplitude plus the channel and angle the max amplitude was detected is displayed on the mark-up perimeter.
2. An inner box is drawn to show the -xdB or percentage FSH crossing positions.
3. The amplitude drop mode is now selectable between -dB or percentage FSH.
4. The level of drop is operator programmable.

- **Super-View Echo Dynamic.**

1. New menu options added:
    - Show xx% FSH level (User).
    - Set User % FSH level.
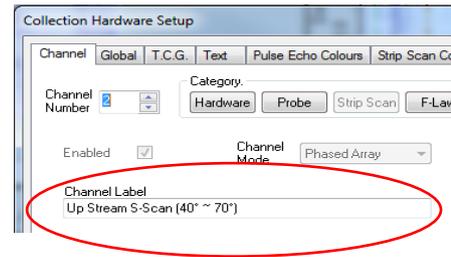   - Find xx% FSH extents (User).

Sizing can now be performed by using a percentage full screen height and not just -dB drop.

- **Channel label.**

    A channel label has been added to facilitate the useful naming of channels to assist in the analysis of multi-channel data.

    This per channel text is displayed in Super View C-Scan image status bars and Super View's channel / focal law selector dialog.

- **Bespoke customer modifications to the Corrosion Mapping software.**

- **Bug fixes and minor changes.**

    1. Separated deletion of per focal law probe delay and per focal law TCG. There is now a <Delete> button for each (probe delay & TCG) on the <Channel> setup page (*Note: Deleting per focal law TCG data also deletes the per focal law probe delay*).

    2. Fixed Super View window lock-up when imaging phased array pitch-catch data.

    3. When using the PA calibration wizard with skew angles of 180°, the echo dynamic image didn't update.

    4. The file extension filter now includes both .SetUp & .scn types when importing / loading a setup.

    5. Added the maximum theoretical scanning speed in the Global setup page.

    6. Added the <Select> option to Super View's main menu (analysis mode), which opens the channel / focal law selection dialog. Except for views displaying ToFD data, all views are updated with the operator's channel / focal law selection.

    7. Added <Generate XLS file> button in the <Amplifier Control> section of the Channel page. This produces a spreadsheet showing the gain being applied for each channel / focal law.

Ch / Gain	F-Law	F-L Bal	TCG	Total
Ch 1 - 11.6 dB	1	-	9.9 dB	21.5 dB
	2	-	10.2 dB	21.8 dB
	3	-	10.4 dB	22.0 dB
	4	-	10.9 dB	22.5 dB
	5	-	11.3 dB	22.9 dB

    8. An option to allow per channel velocities has been added. The <Use global velocities> option is found in the <Global> setup page within the <Velocities> group. When ticked (default) all channels inherit the velocity for the selected wave type entered in the <Global> page. However, when un-ticked the <Ultrasonic Velocity> field for each channel is enabled for edit.

    9. Modified element balancing to use the biggest signal and not the biggest signal of the same sign that was detected above the ignore threshold.

    10. Added <Factory Reset> option within the <Help> drop-down of the main menu.

    11. Fixed issue when adding indication mark-up to Strip-Scan data on the Down Stream zone strips when in Map view. Also fixed issue with the amplitude of 14-bit data not being detected when the mark-up box is being added to a strip in Map view.

    12. Fixed memory leak with the view's focal law selection list.

    13. In Super View the colour of a pixel was used for comparison of over-lapping pixels to keep the biggest amplitude instead of the actual sample value. This caused an issue when imaging 14-bit data.

14. Stopped gate 1 being moved by the mouse on the A-Scan display window when gate 1 is in I/F trigger mode.