TD-Scan v20.04 Overview

Date: 28 – October – 2020.

- Added support for Dual Matrix Arrays. This includes:
  - Modifying the format of the probe and wedge databases.
  - Modifying BeamTool file import.
  - Modified probe and wedge selector dialogs.
  - Modified probe and wedge editor dialogs.
  - Added support for element mapping.

  NOTE: TD-Scan views the matrix element pattern from the top of the probe's housing while BeamTool views in opposite direction. A conversion is made when importing BeamTool file into TD-Scan.

- Added frame rate field in the A-Scan display window (Touch UI).

- Changed <Probe> dialog to display <Skip Correction> values when skip correction is disabled.

- Modified the A-Scan display window to automatically switch to time units when viewing a ToFD channel, when switch back to the original selection when viewing pulse echo / phased array channels.

- Phased array calibration wizard.
  - Added HT voltage control.
  - Added side drilled hole diameter (delay calibration using user defined depth).
  - Modified the shape of the track box when calibrating probe delay using user defined depth.

- Added a <Virtual Axis> with 3 operator definable button for the Single Axis scanner. This is for the R-Evolution scanner from Phoenix Inspection Services.

- Added <Panel Layout> button in the <TD Super-View> technique dialog.

- GPS.
  - Can now be enabled via the user interface.
  - Added <search> feature to look for the GPS on all COM ports.
  - Added GPS message counters.

- Various modifications for BeamTool 9 support.

- Improved Chinese language support.

- Made improvements to the external alarm communications.

- Modified .CSV file generation to use UTF-8 encoding, plus include channel settings and X/Y position information.

- Modified Super-View's horizontal ruler to display 3 decimal places when using inches and the numeric difference between the ruler ends is less than 2.

- Added <Break Strength> in the advanced motor setup dialog. This is only available on Focus-Scan RX systems and controls the PWM breaking on motor regeneration.

- Fixed issue with <Global Thickness> not be used on all PA/PE channels.

- Fixed communications lock-up.

- Fixed issue where using an external trigger to start/stop data acquisition was disabled when using a PS45 system.

- Fixed issue with Strip-Scan indication mark-up dialog. Previously, the start position used a 1000 separator (,) which cause the start position to be displayed incorrectly.

- If the option to allow individual focal law selection in a view was disabled, double clicking a channel in the channel selector expanded the channel's focal laws, hence allowing individual focal law selection.