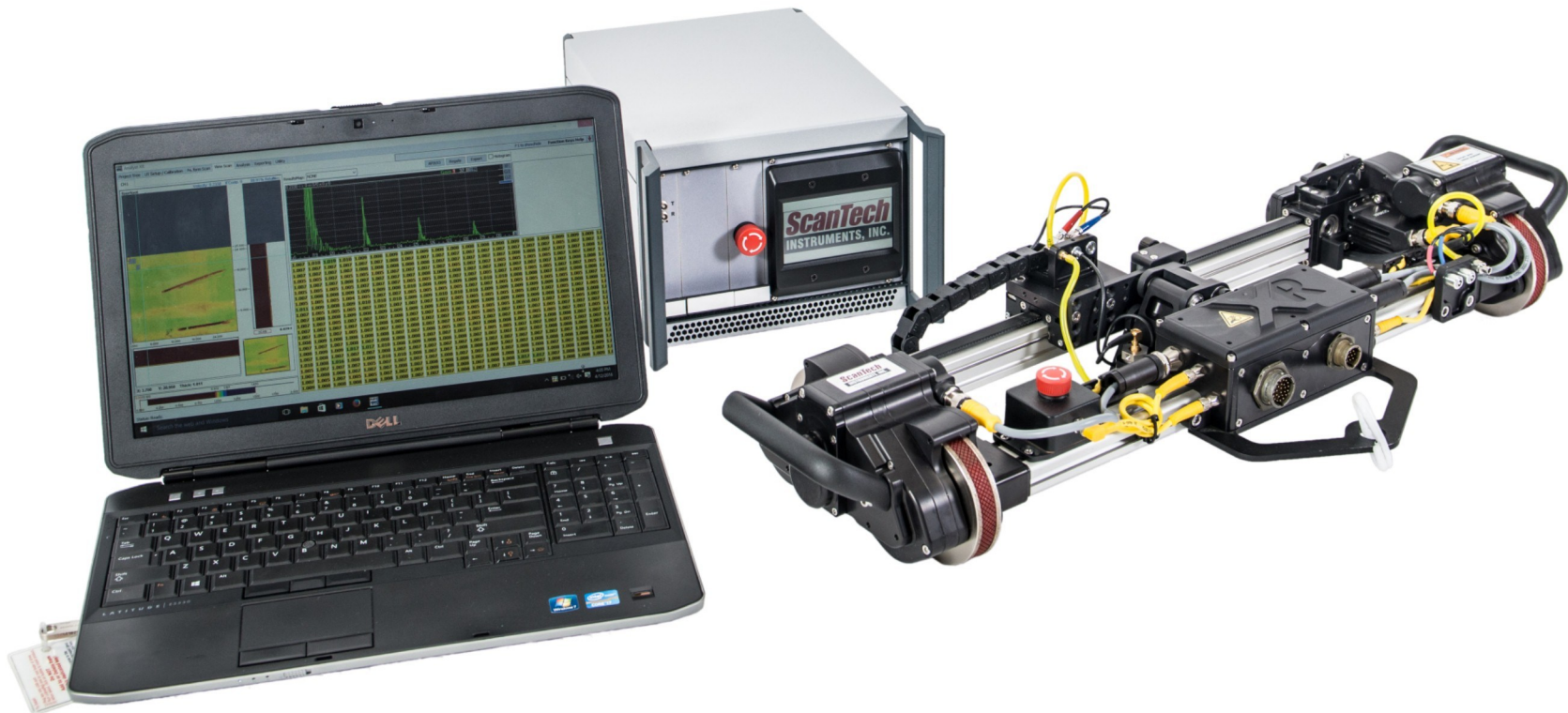




XR Spider

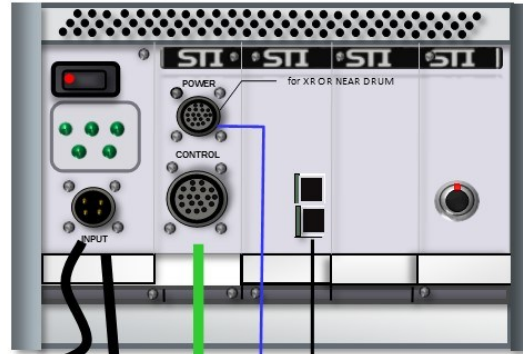
Quick Start Guide for XR Spider Scanner





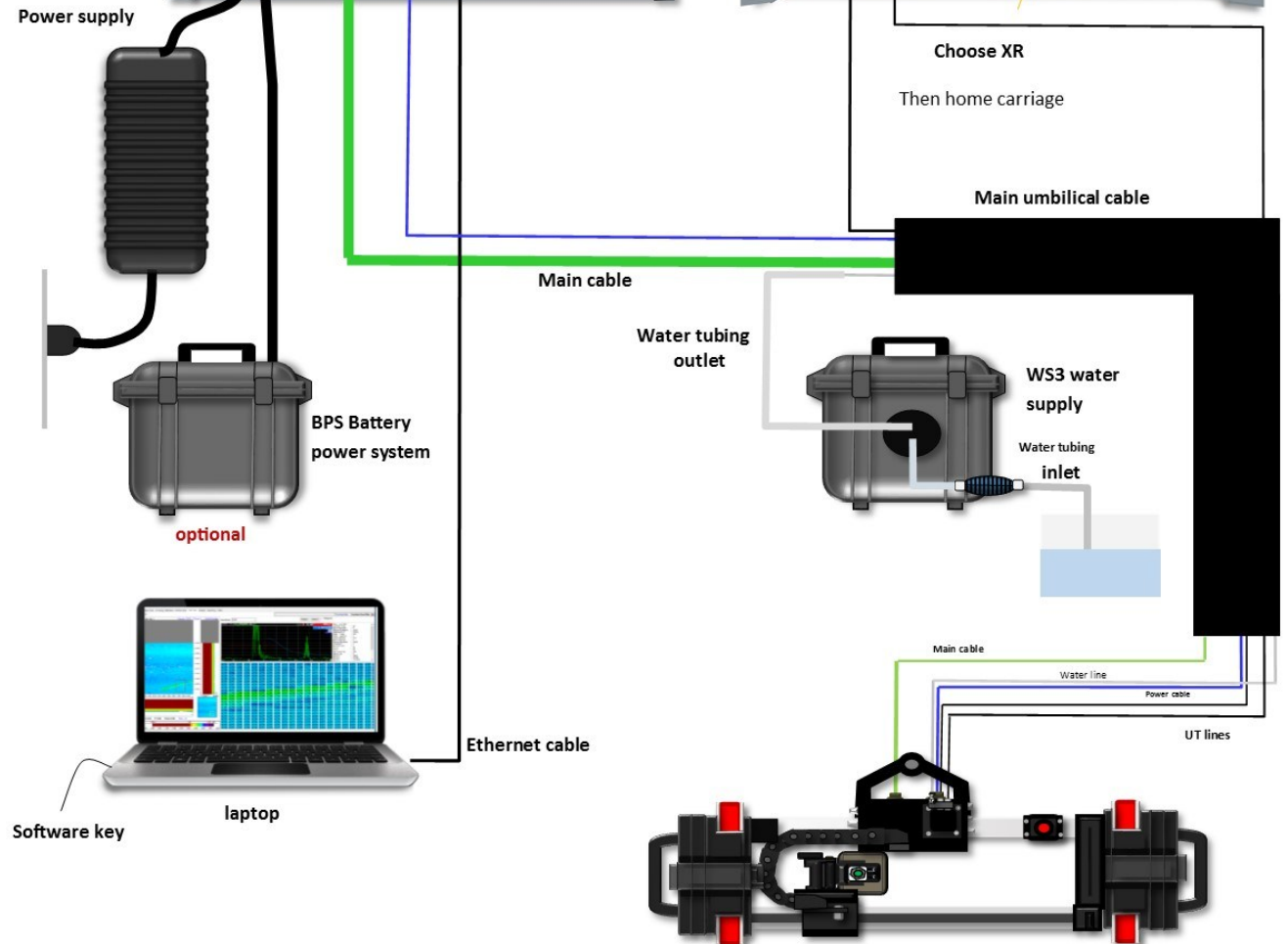
XR Setup

Back view of controller



Front view of controller

Dual channel model is shown. If you own a dual channel it is important to put the UT in the top two slots.



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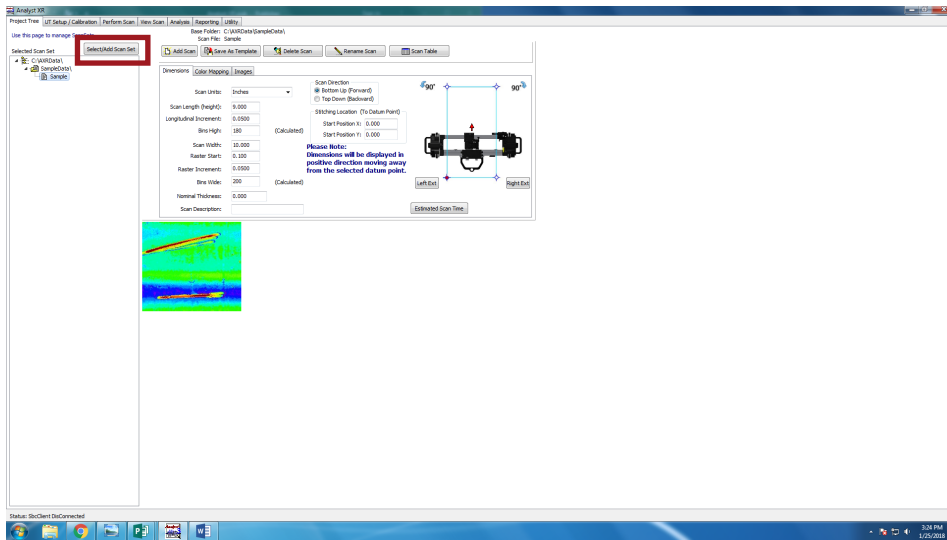


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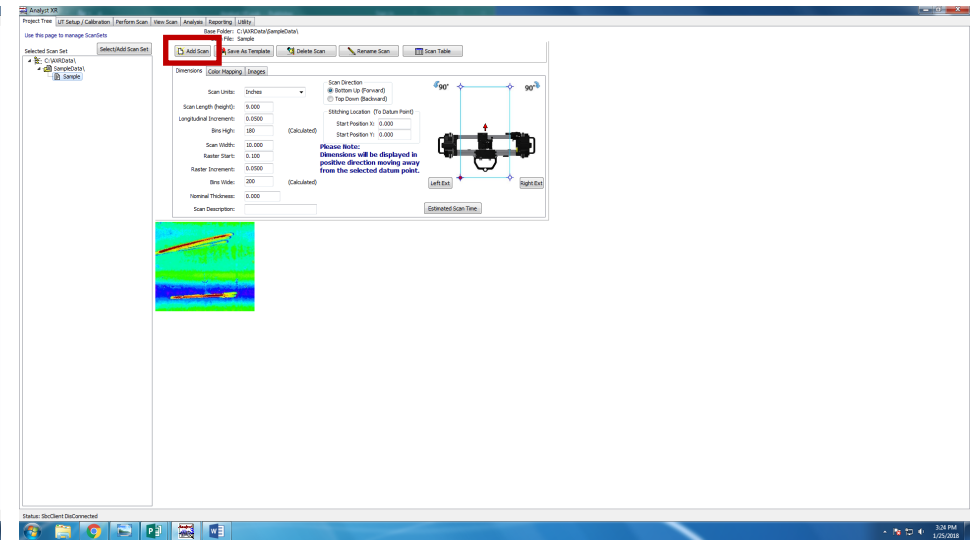
Analyst XR™

Quick Start Guide for *Analyst XR™* Software

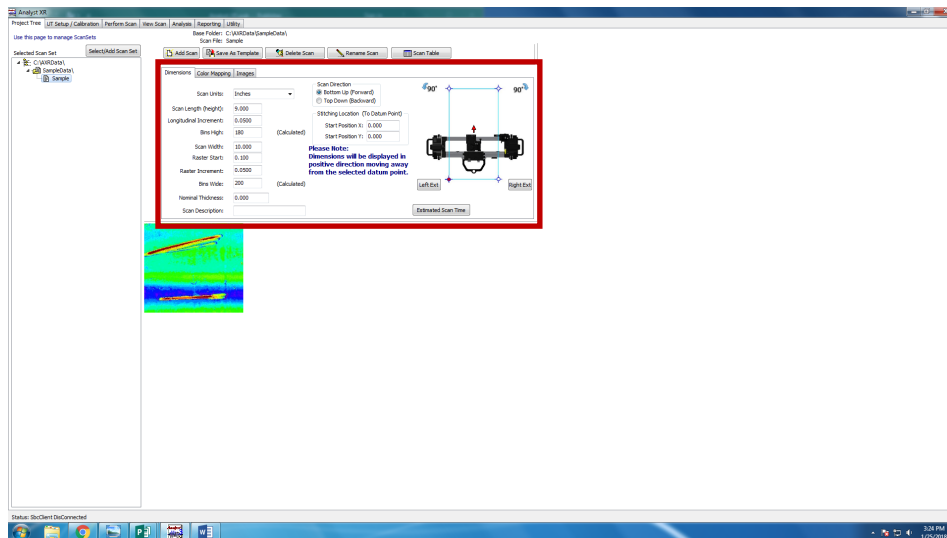




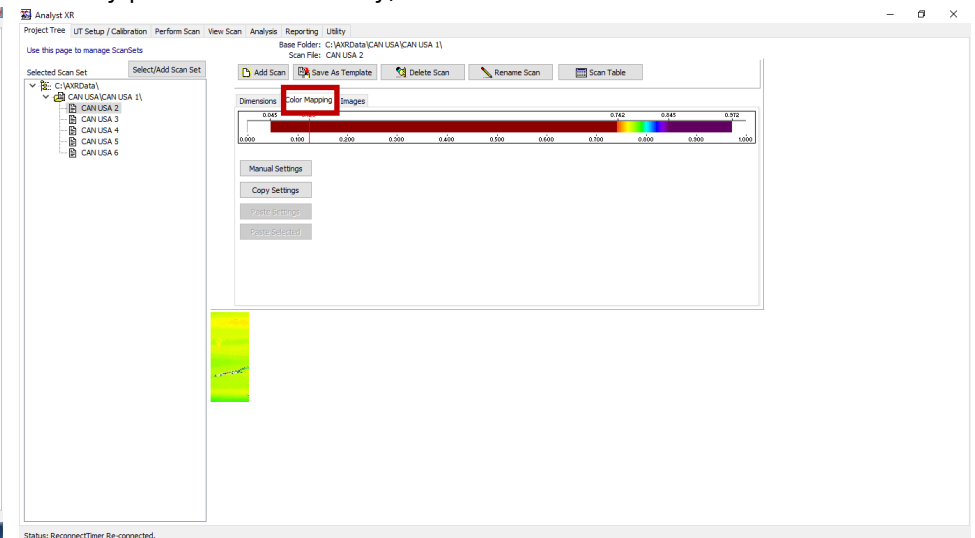
1 Begin by selecting where you would like to store your scan data. To do this, click "Select/Add Scan Data".



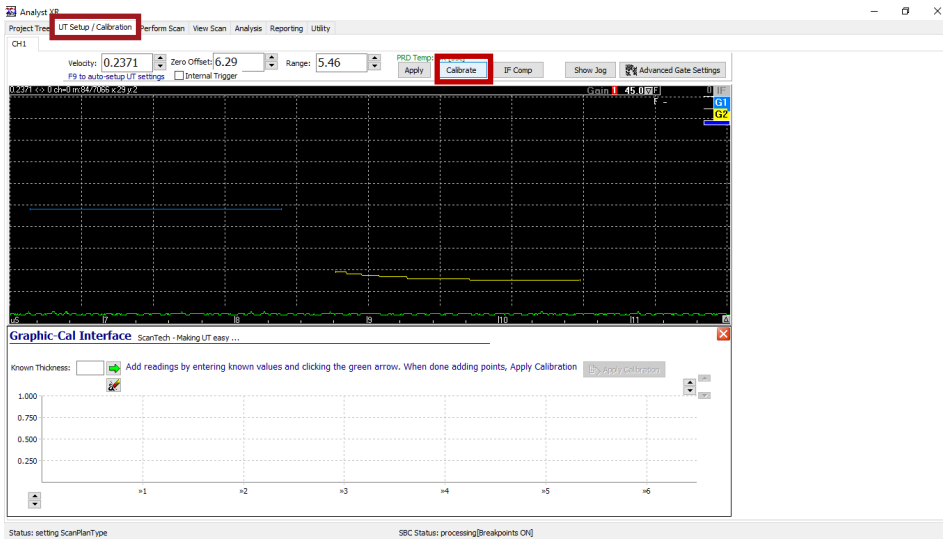
2 Next, click "add scan" to create a new scan. It will give you the option to select a previous scan, template, or blank scan. If you have a previous scan that required the same dimensions and specifications, you can select this to automatically fill in the dimensions for you (just be sure to update the x and y positions if necessary).



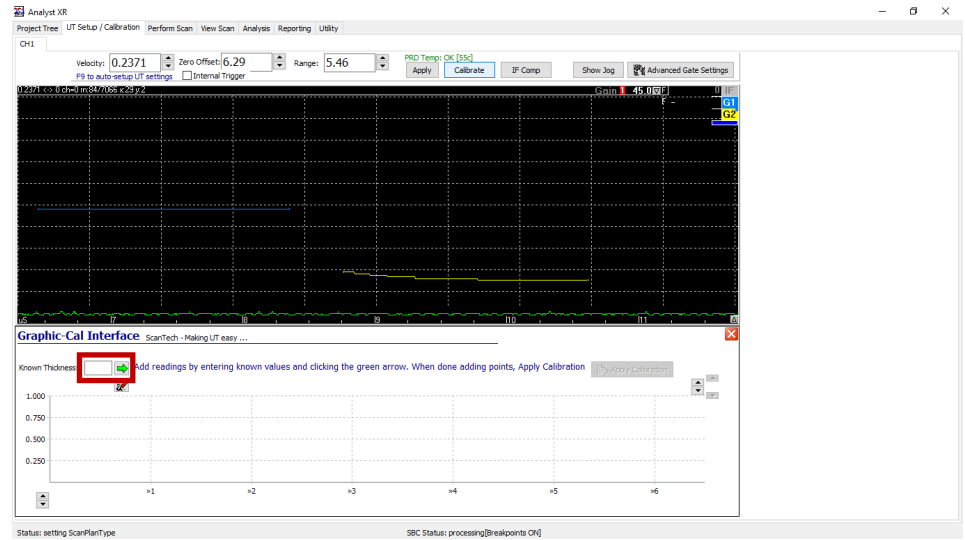
3 Fill in the specifications for the scan.



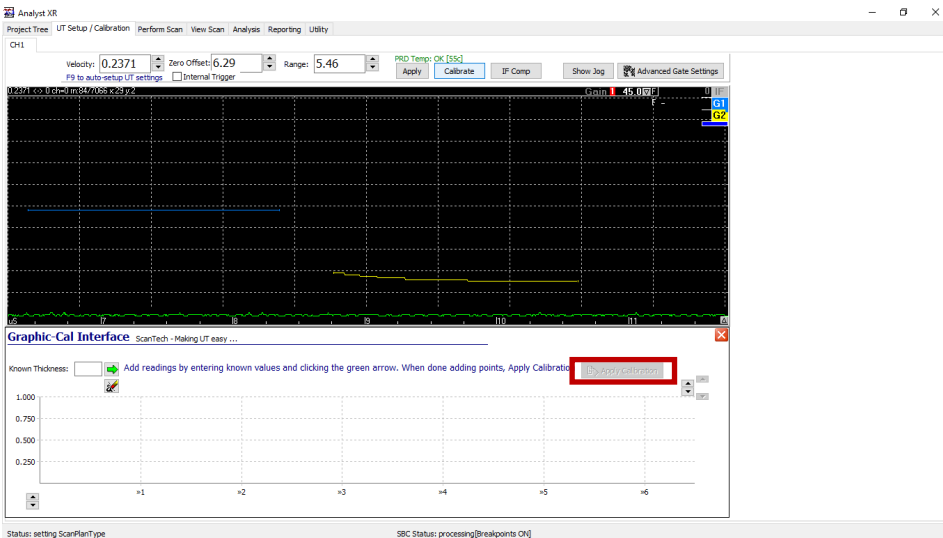
4 Optional: You have the option to edit the color mapping settings based on the thickness of the scan. To do this, click the "color mapping" tab and move the color slider to the desired location. You can also enter the values in manually using the "manual settings"



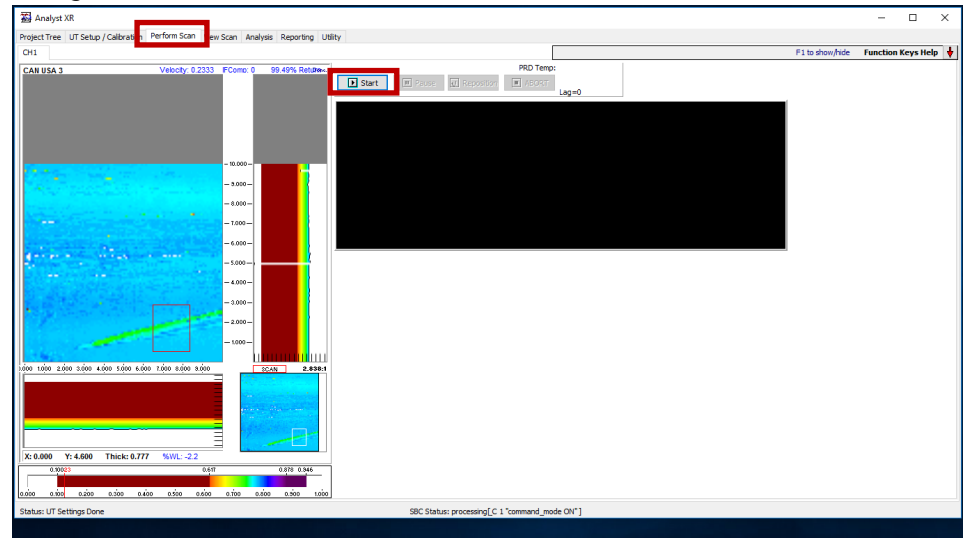
5 Move to the “UT Setup/Calibration” tab and click “Calibrate”.



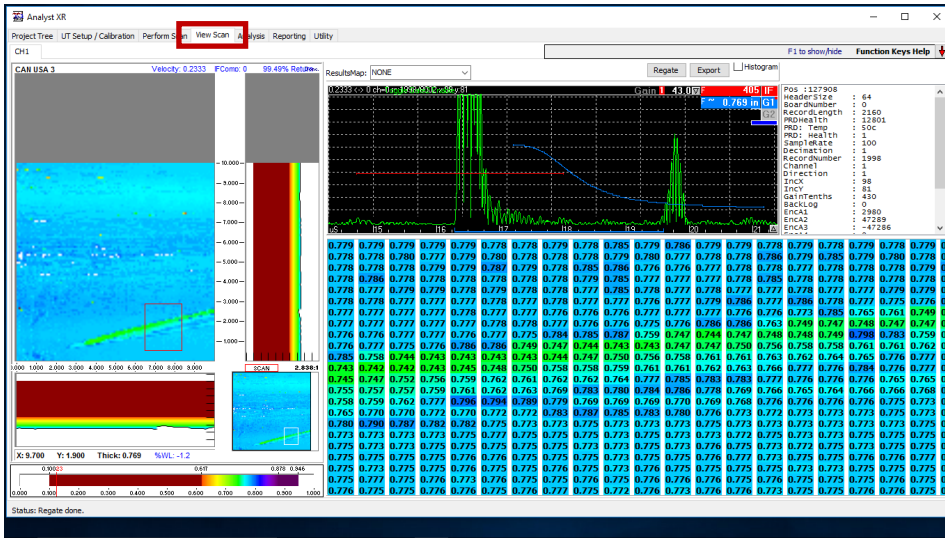
6 To calibrate, slide the UT instrument over the calibration block and enter the thickness of the block in the box labeled “Known Thickness:” and click the green arrow. Repeat this at a different thickness on the calibration block. If you need to remove data points, click the eraser button beneath the green arrow.



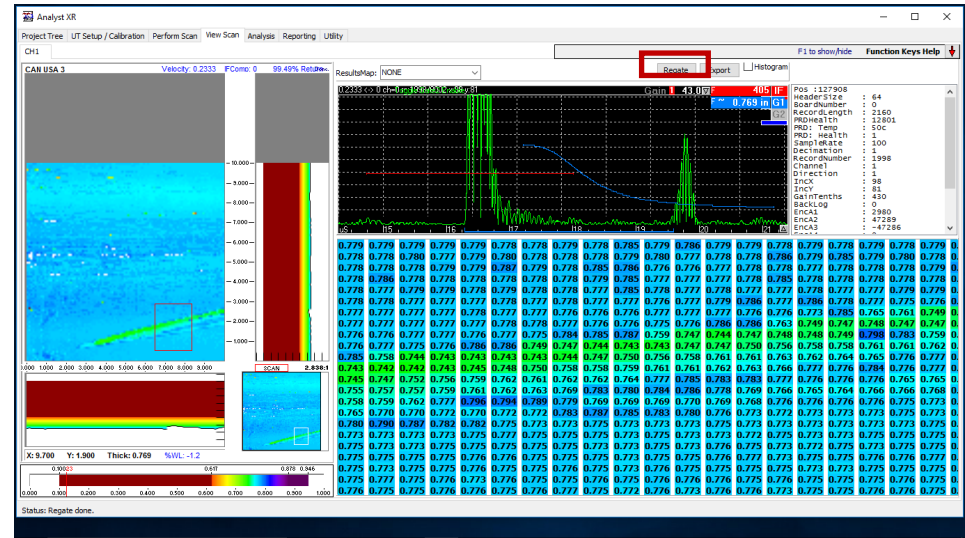
7 Once you have entered the two data points, click “apply calibration”.



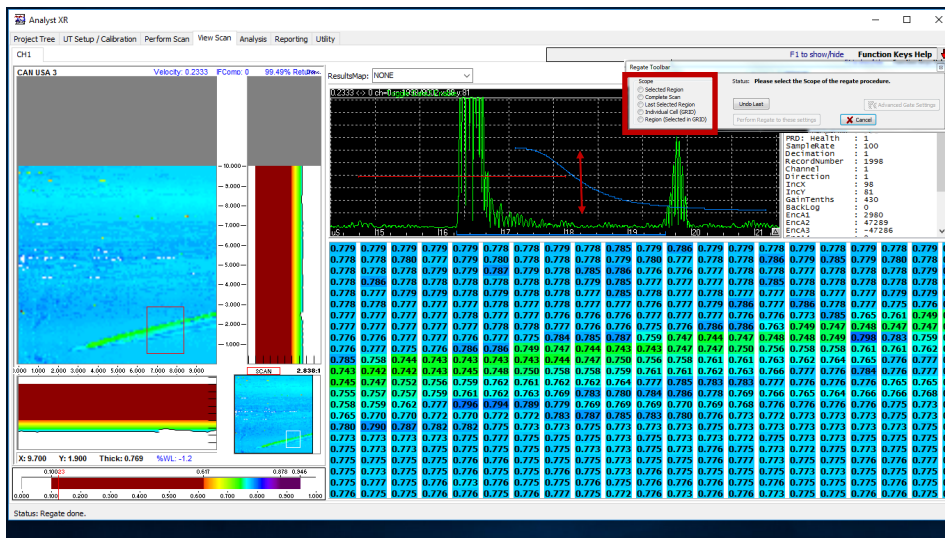
8 Next move to the “Perform Scan” tab. Once you have positioned your scanner, click “Start”. Should you need to pause or stop the scan click “Pause” or “Abort”. There is also an option to reposition the scan should there be an obstruction on the vessel. To do this, click “Reposition”.



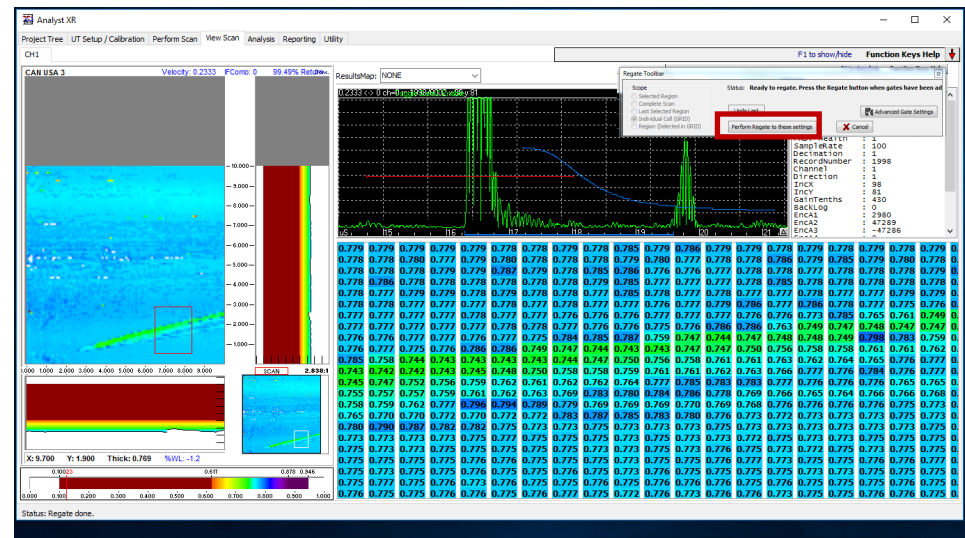
9 When the scan is complete, move to the “View Scan” Tab. At this point, you have the option to re-gate your data, create a histogram, export your data, or change the color mapping.



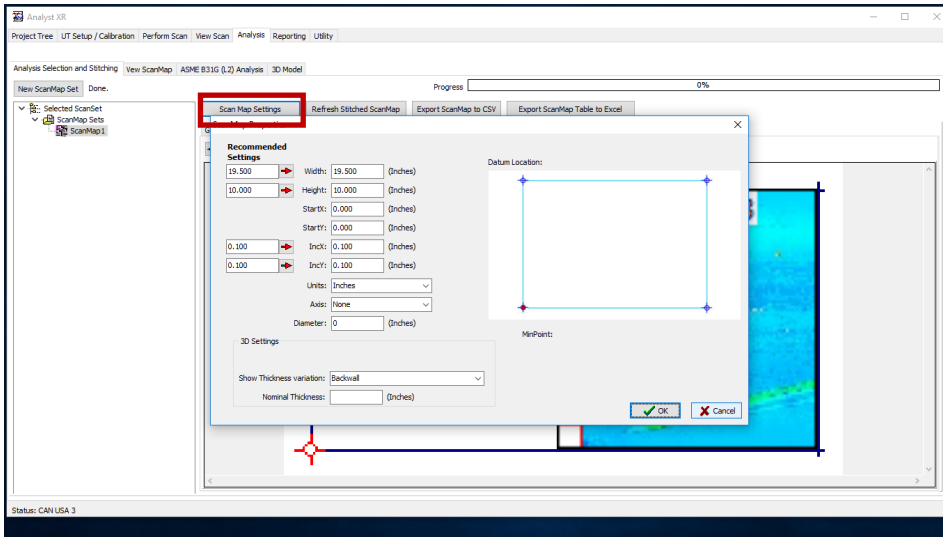
10 Optional: To re-gate your data, click “Regate”. A pop-up should come up in the top right-hand corner.



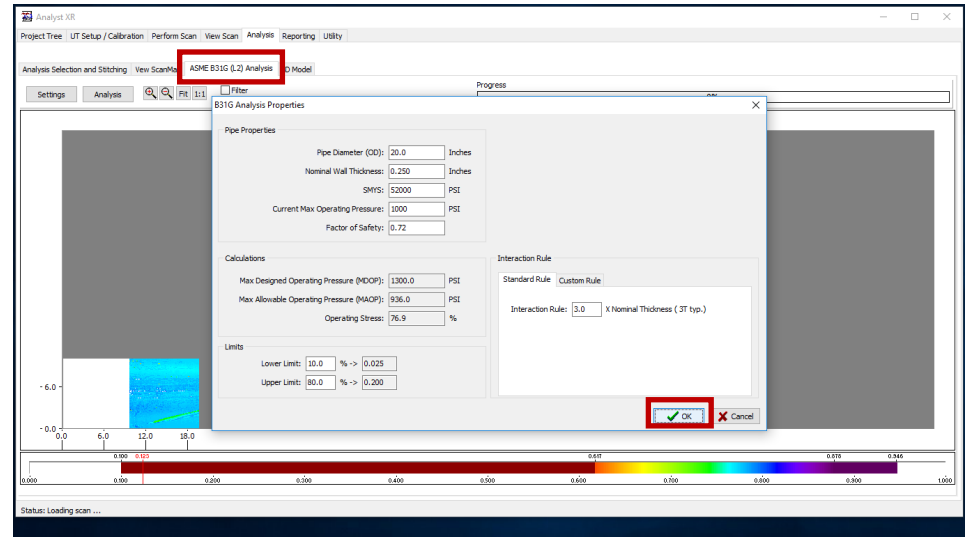
11 Optional: From this box select how many points you would like to re-gate: a single point, a selected region, or the entire scan. Select the points you are re-gating, and click and drag the gates on the A-scan to a new position.



12 Optional: Once you have moved the gates, click “Perform Regate to these settings”.



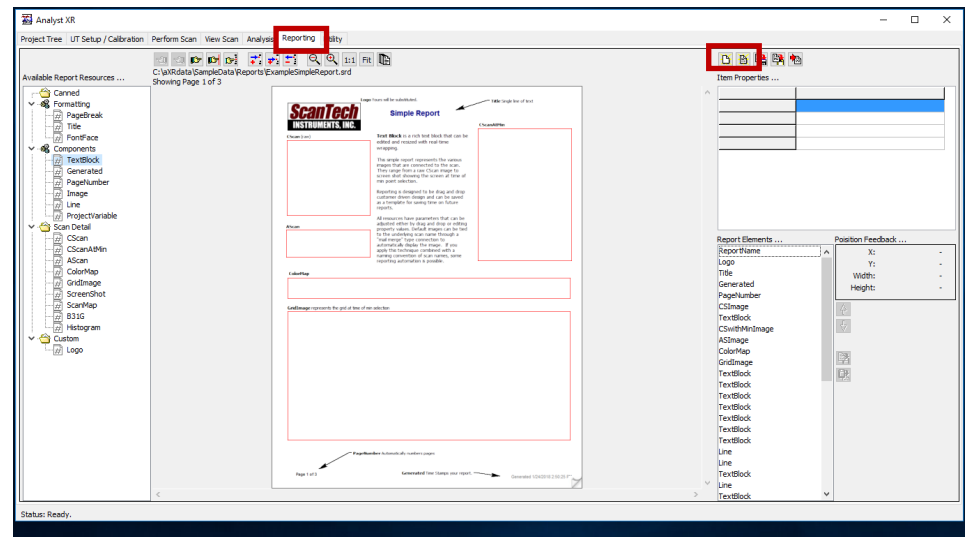
- 17 Optional: If you have multiple scans to stitch together, you can move to the “scan map interactive adjustment” tab and line them up in succession with one another by clicking and dragging. You can also stitch them together by editing the start position of each scan by clicking the “Scan Map Settings”.



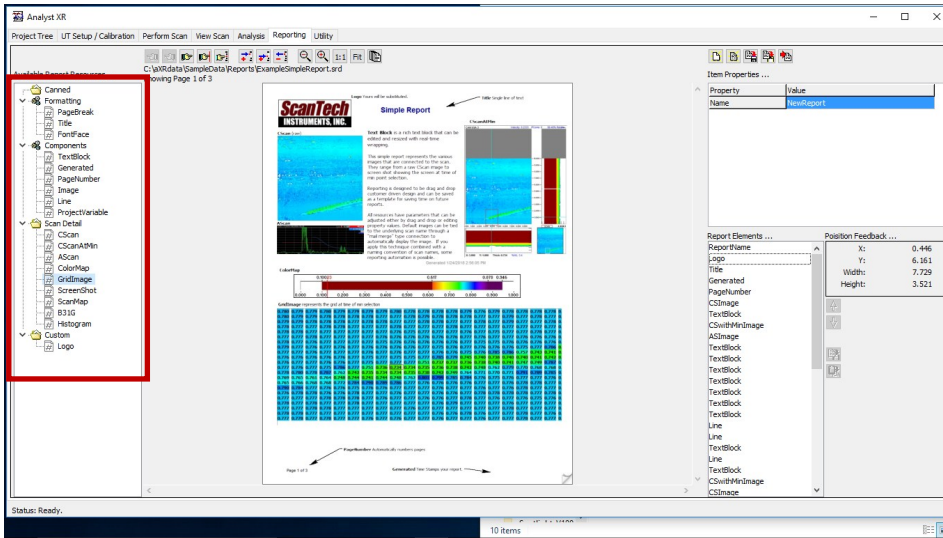
- 18 Optional: To perform ASME B31G analysis, click the tab and enter the properties of the pipe/vessel. Click “ok” to run the analysis.



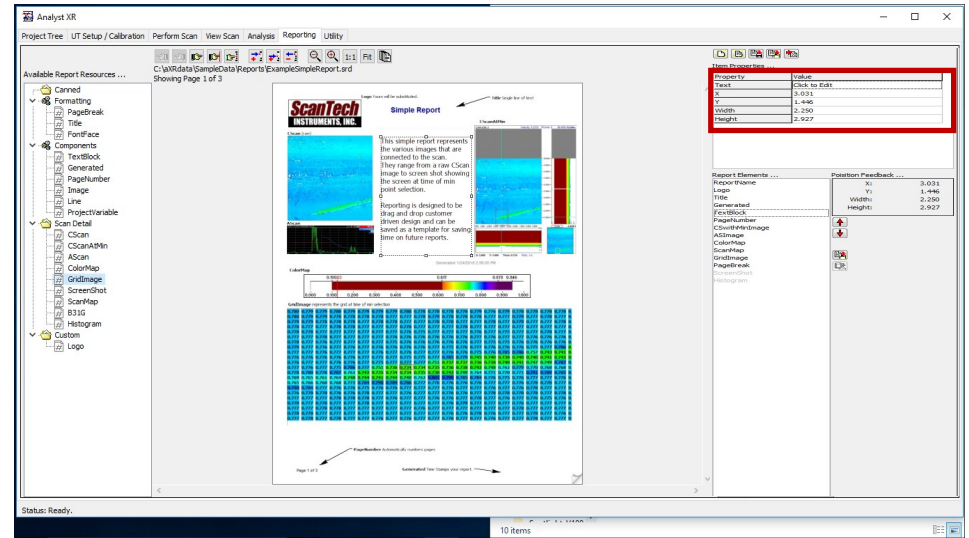
- 19 Optional: You can also generate a 3D model of the scan data by moving to the “3D model” tab. Within that tab, you can save the image or export it to an external viewer.



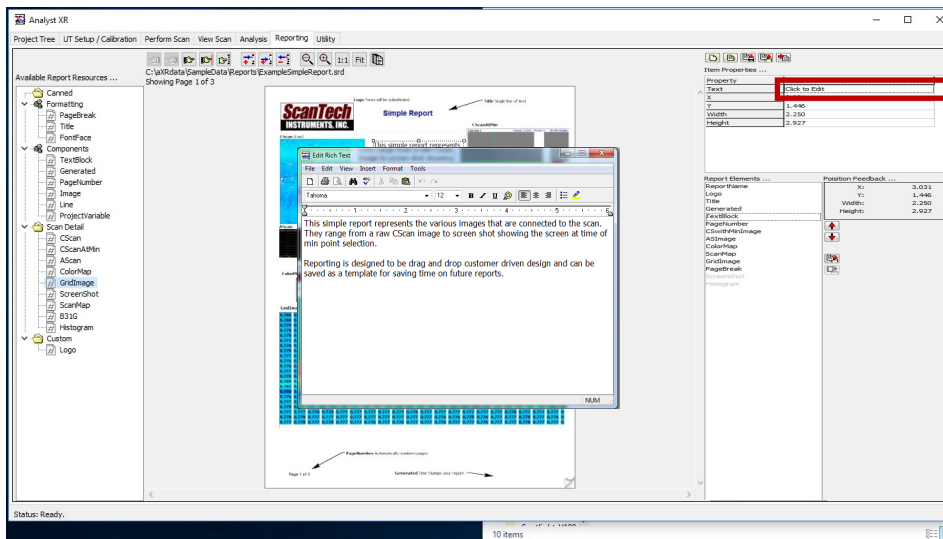
- 20 Once you are finished with analysis, move to the “reporting tab”. You can select a blank report, or a template to work from. Above, a template has been selected.



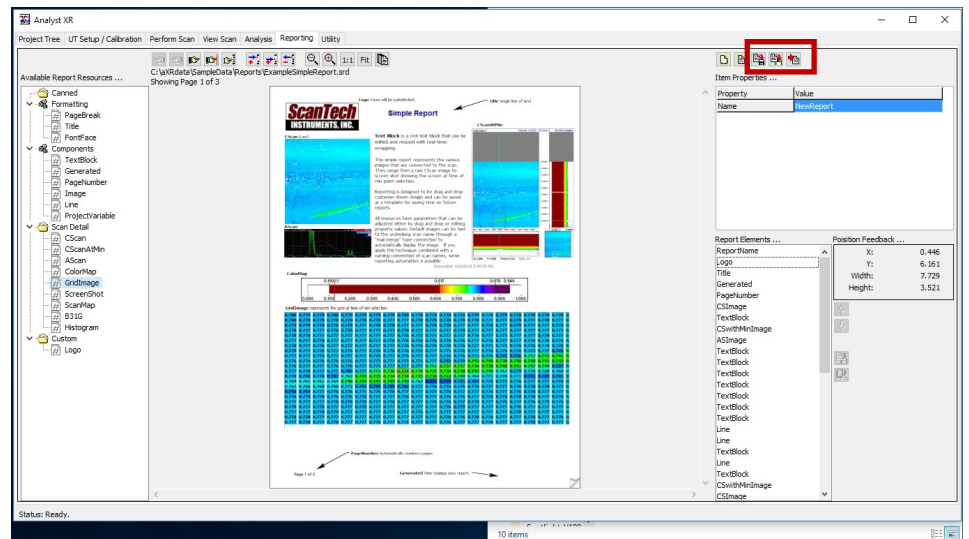
21 To add elements to the report, drag and drop a box from the bar on the left side. Then, click the element you would like to fill the box with. You can move or resize the box by clicking and dragging.



22 You can also edit the size and position of an object using the properties table, which will automatically pop-up when you click on an object.



23 To edit text, select your textbox and click the cell that says "click to edit" in the properties table. A pop-up will come up allowing you to edit your text, font, color, size, etc. When you are done making edits, close out of the box, and a pop-up will ask you if you want to save your changes.



24 Once you are finished with your report, click "compile". You also have the option to save the layout to be used in future reports.

Data Acquisition: Hotkeys Functions

Key	Function
F1	Show/hide listing of function keys
F2	Re-gate data
F3	Save custom (named) image
F4	Find next min. point
Ctrl F4	Back through min. points
F5	Toggle C-scan full width
F6	Toggle AmpBS/Grid
Ctrl F6	Toggle ABS/ADS
F7	Use gate settings for UT setup
F8	Move to position
F9	Set min and save images
F10	Crosshair to min position
F11	Toggle play/stop
F12	Locate min area

Key	Function
End	Fits C-Scan to window
Ctrl End	Fits C-Scan to width
Home	Scale of C-Scan 1:1
Ctrl Home	Zoom C-Scan to fit grid dimension
Page Up	Zoom in
Page Down	Zoom out
Arrow Keys	Move cross-hairs on C-Scan image
Ctrl Arrow Keys	Scroll window when zoomed in
Alt Arrow Keys	Scroll grid (red) box