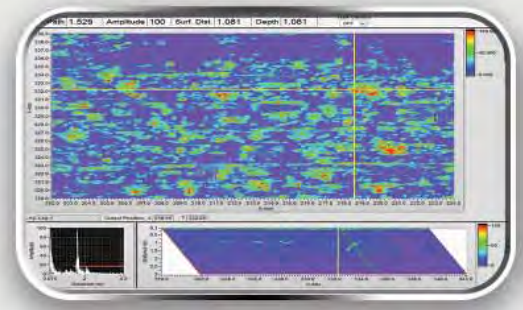
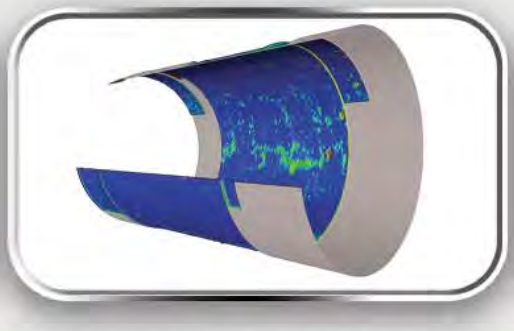
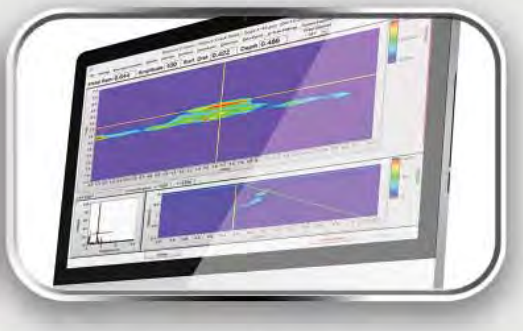
PROSCAN8

Most Powerful 8 Channel Ultrasonic Flaw Detector

A, B, C-Scan, TOFD, SRGW, 2-Axis Encoding, 8-Channels, USB, 3.75" x 2.75" x 1.5"





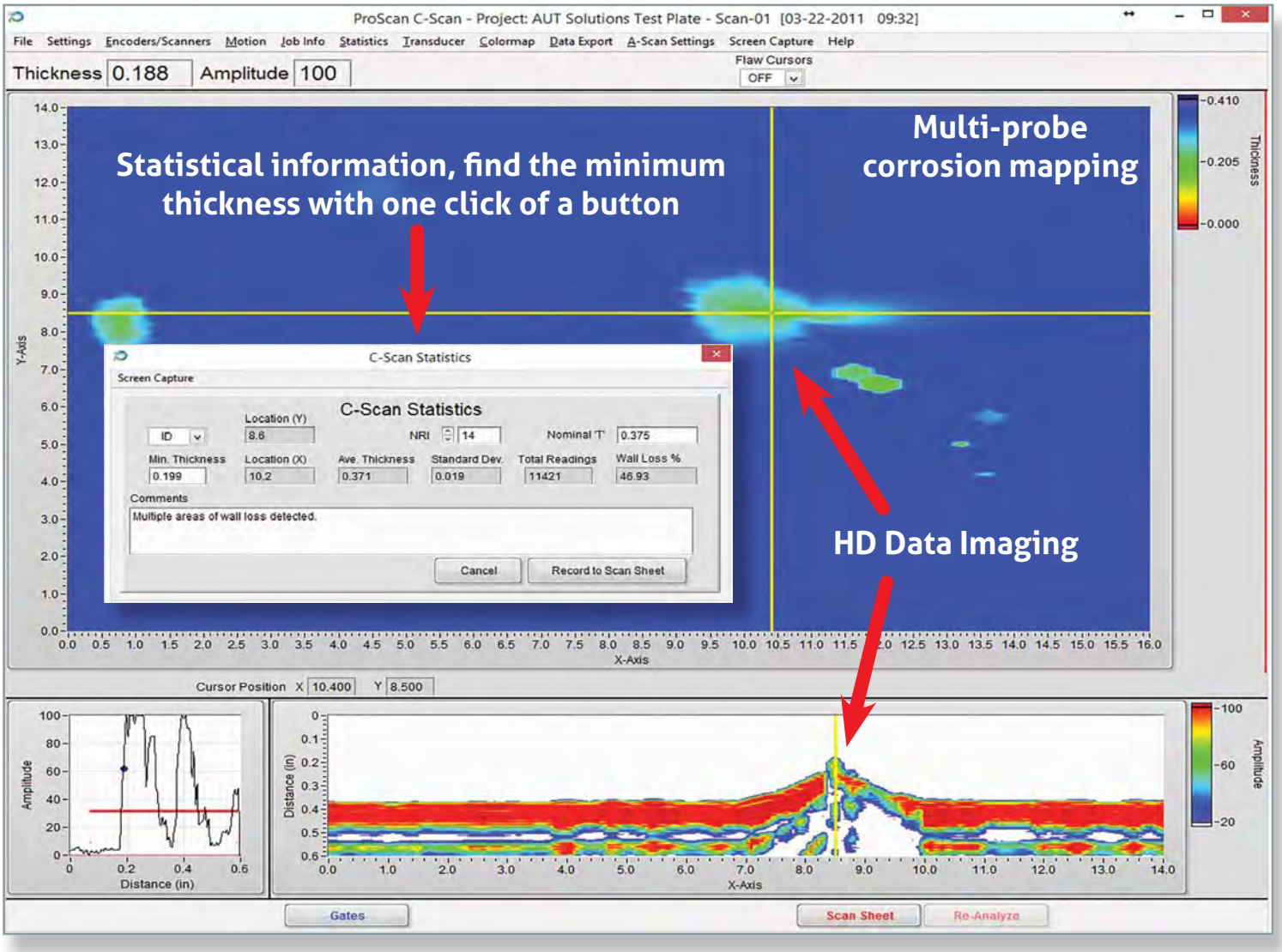


ProScan8

The Proscan8 takes all the features and benefits of the single channel ProScanXT but now give you 8 channels. The ProScan8 is a small and low cost device that allows you to collect up to 8 channels of data at simultaneously which can increase production and allows you to view data in ways never achieved by other methods such as phased array or TOFD.

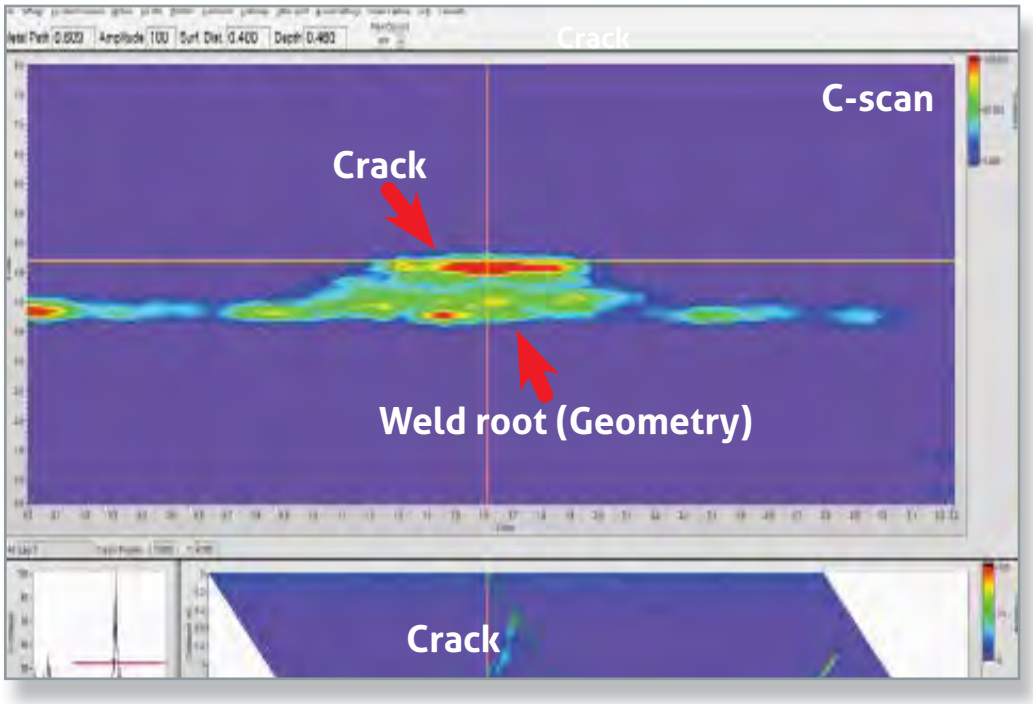
Features

- All features from ProScanXT but now with 8 channels
- Data merging and stitching
- Real time multi-channel fixed angle acquisition
- 8 times scan area potential for faster production
- Corrosion mapping, Weld flaw and HIC examinations

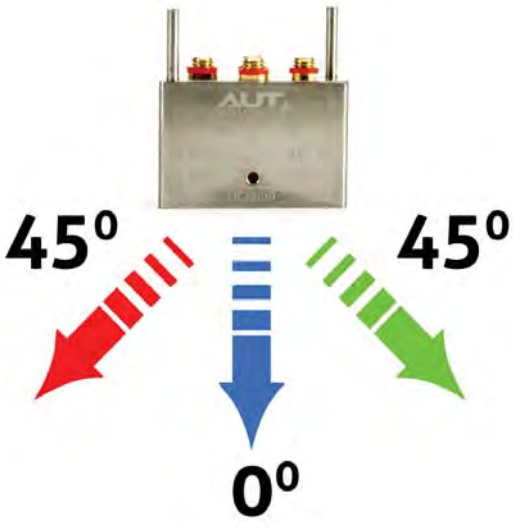


Multi-Channel Data Merging - Weld Inspection

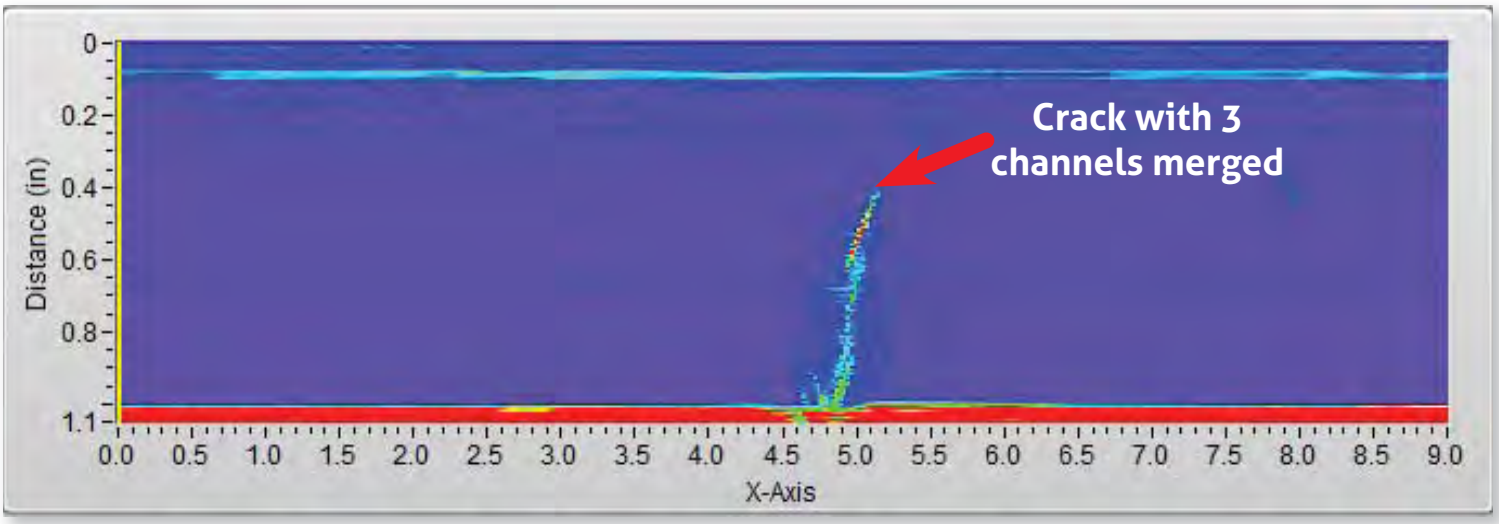
Raster scan over a weld cap using our triplex transducer and collect both zero degree and outward facing shearwave channels at the same time and image weld flaws easier than ever while monitoring wall thickness and couplant loss which phased array cannot do.



Triplex Transducer



45 degree shearwave scan of a vessel weld with a 54% thru-wall crack present

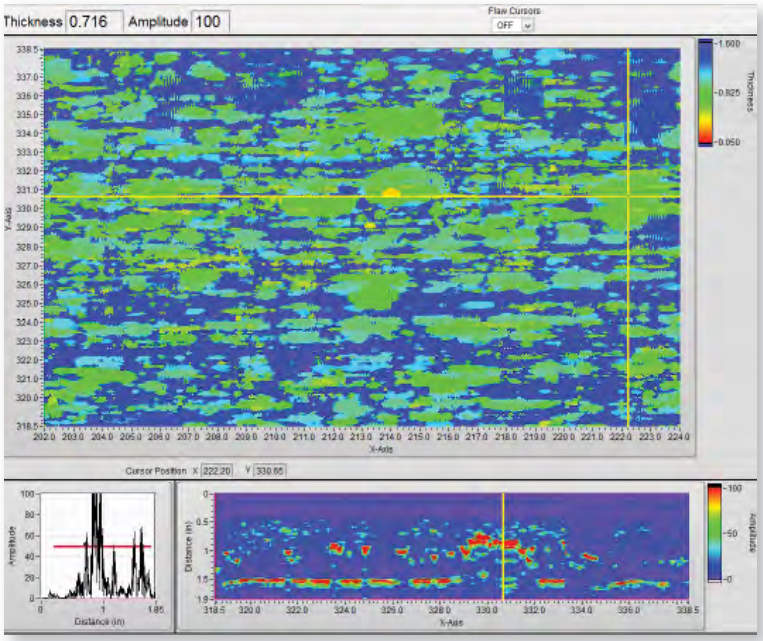


B-scan showing merged 0-degree and 2 opposing 45 degree shearwave channels all on one image, which included the second leg data flipped and super-imposed back onto the 1st leg data for a true cross sectional view of the component.

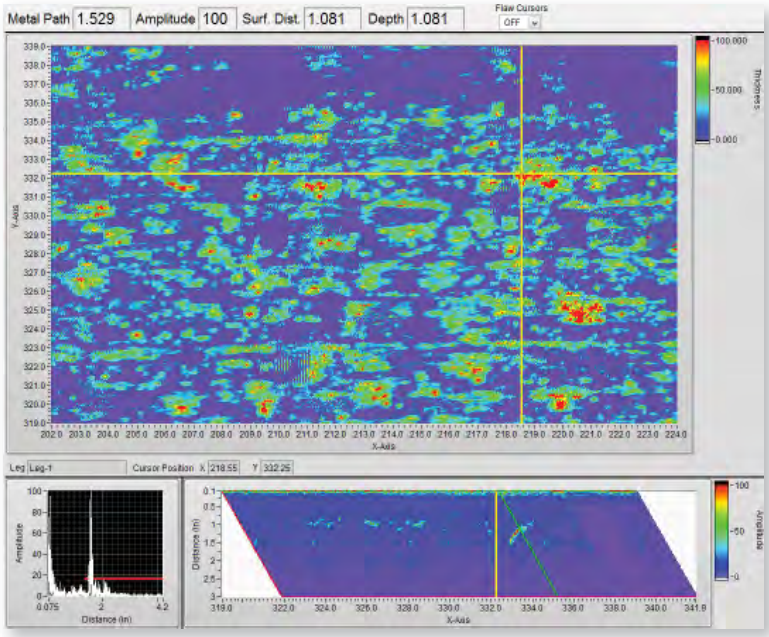
Multi-Channel Data Merging - HIC Inspection

Hydrogen induced cracking or HIC is a failure mechanism commonly found in refineries around the world. Differentiating between staggered laminations which have less potential to cause failure and hydrogen blister with step wise cracking which comes at extreme risk of failure is not something easily done with even advanced UT techniques such as phased array or TOFD. It is very important to view both 0-degree data with shearwave data at the same time so you can see the blister from the 0-degree data and then the crack signals from the shearwave channels as you will not see blisters with shearwaves. The ProScan software has the ability to merge these channels but also allows you to specify a color for each channel so you can clearly see the blister signal and then the cracks coming off of them:

0-degree data showing hydrogen blisters

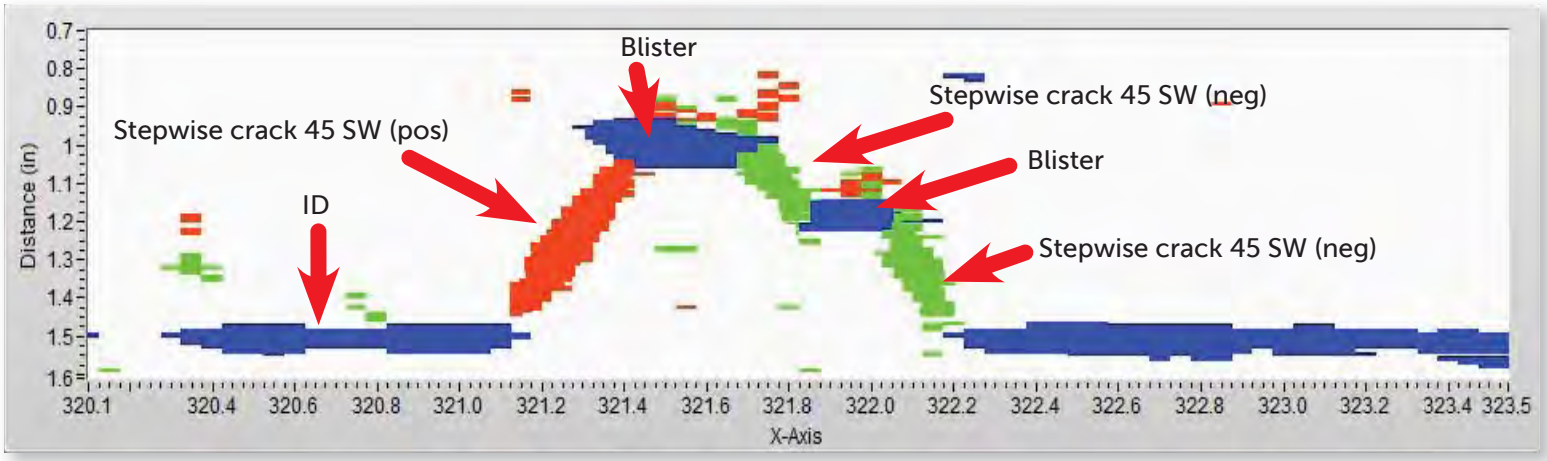


45-degree shearwave data showing stepwise cracking



Merged B-scan image of three channels at different colors depicting the blister and stepwise cracks coming off of them; in this case:

Blue - 0-Degree, Red - 45 Degree-Skew-90 (pos), Green - 45 Degree-Skew-270 (neg)



Specifications

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www.ndtsupply.com, sales@ndtsupply.com

General

Dimensions:	3.75" x 2.75" x 1.50"
Weight:	10 oz
Connections:	UT, 2 Lemo 00: 1 pulser/ receiver & 1 Receiver
PC/power:	1 USB 2.0 (up to 480 Mbps)
Operating system:	All Windows OS compatible

Pulser

Voltage:	10-250 V
Pulse width:	10 ns – 0.4 µs

Receiver

Gain:	0 – 90 dB, in steps of 0.1 dB
Bandwidth:	0.50 – 25 MHz

Acquisition

Sampling rate:	25/50/100 MHz
Transducer mode:	Single (pulse echo)/Dual (pitch-catch-through transmission)
PRF:	6 Hz – 2 KHz

Processing

Rectifier:	Full, +half, -half, RF, & Envelope
Filters:	2.5/5/10 MHz; Broadband
Resolution:	12 bit live A-scan, 8 bit for stored data
Screen linearity:	±5%
Linearity:	±1 dB on total gain dynamic
Encoder:	5 v TTL (15 pin Sub-D), 100mA