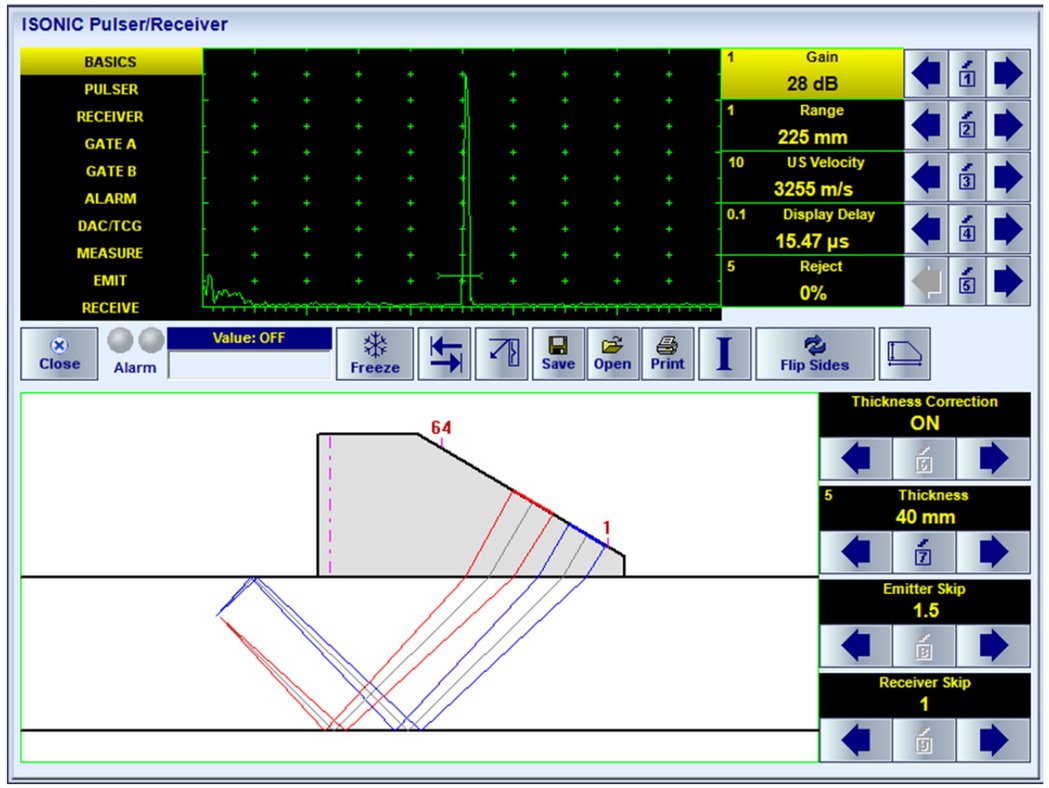
Thanks to the built-in Tandem-B-Scan cross-sectional coverage and imaging feature:

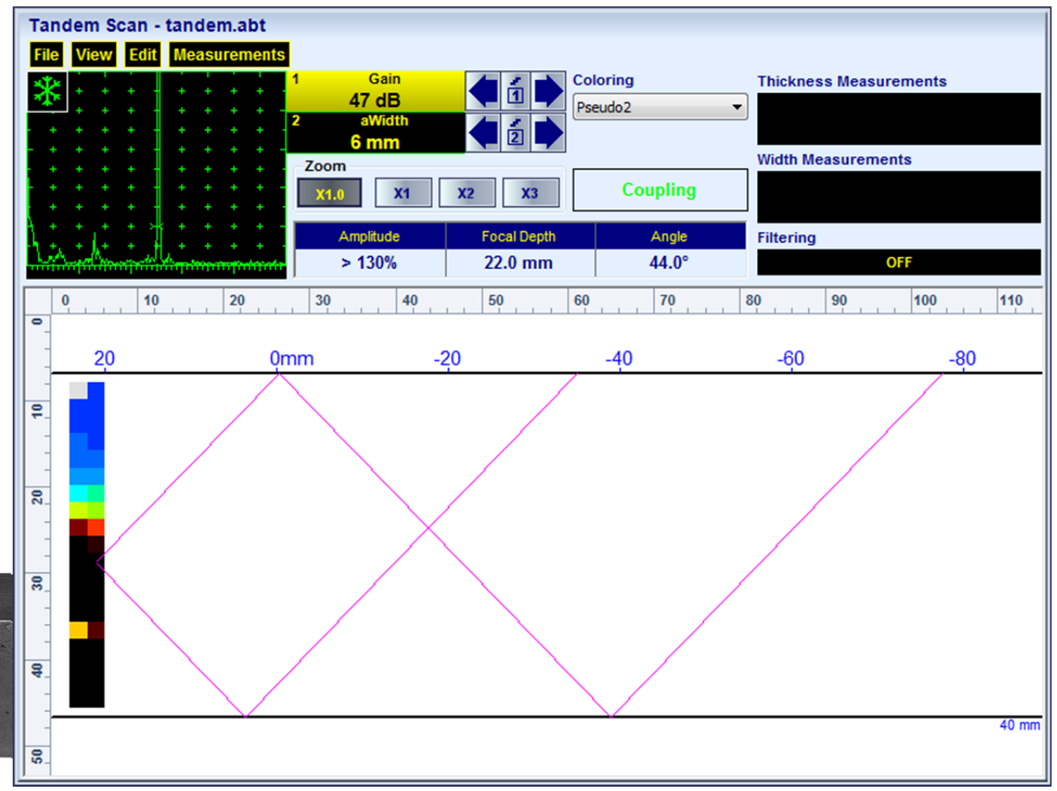
- ***ISONIC 2009 UPA Scope***

and

- ***ISONIC 3510 equipped with optional S 4922A064D032 active PA functionality extension adapter***

uniquely provide the reliable detection of the vertical and close to vertical planar defects in the welds, plates, tubes and vessels walls, rails, and the like with use of 64-elements wedged linear array probes





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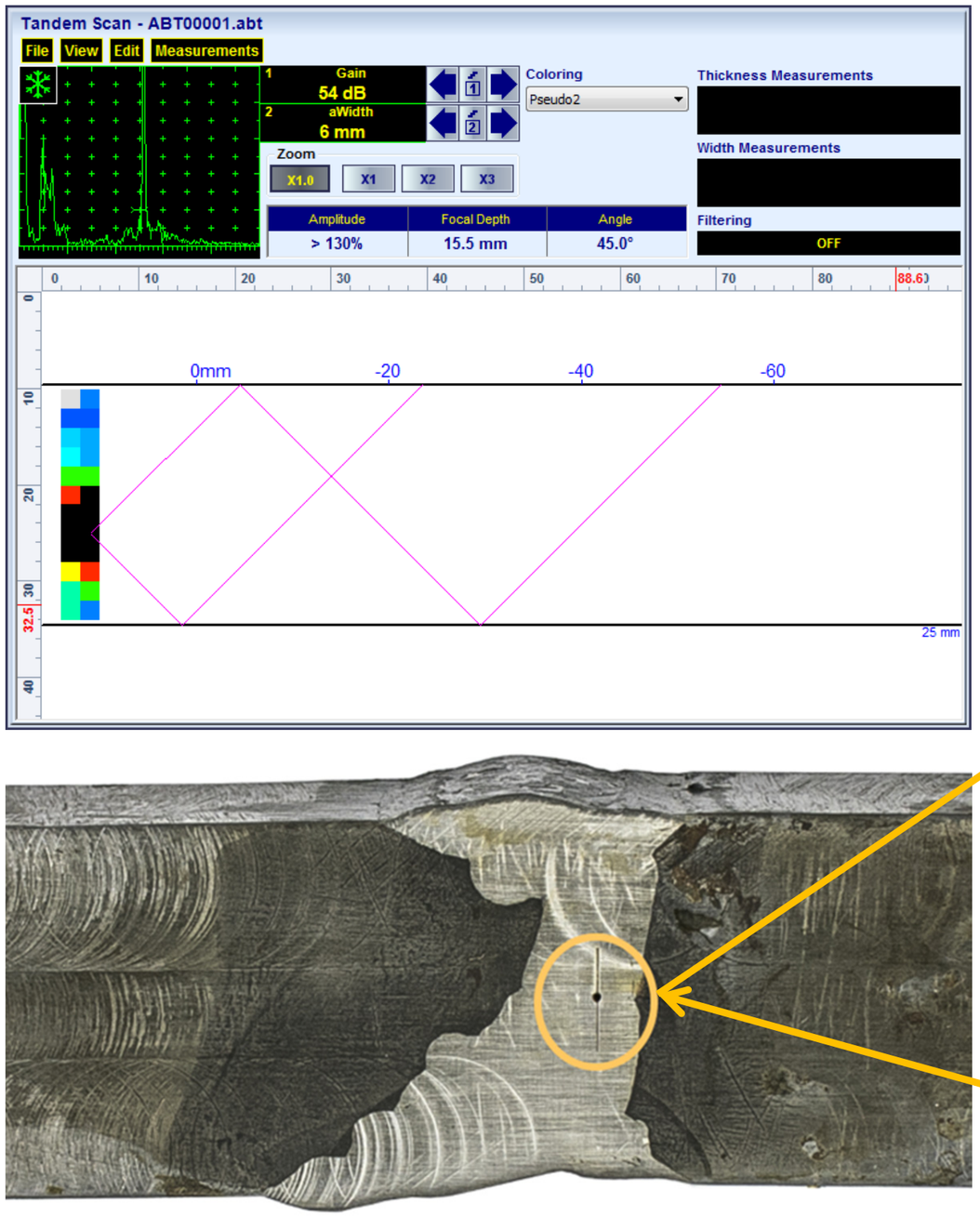

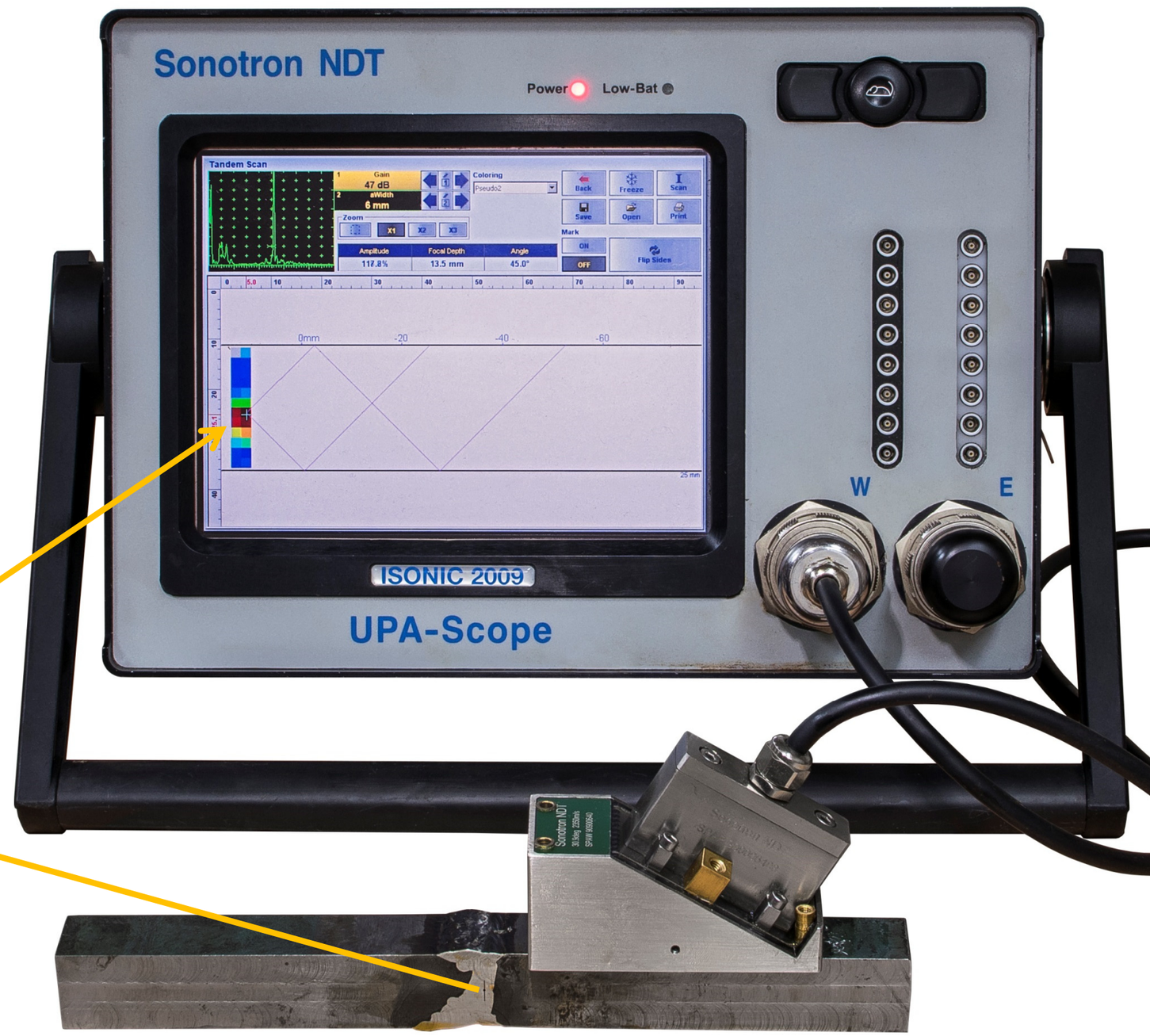

Detection of the vertical fatigue crack in the K-bevel weld

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Detection of the near surface breaking vertical reflector in the TOFD performance demonstration block

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Detection of the vertical fatigue crack in the K-bevel weld

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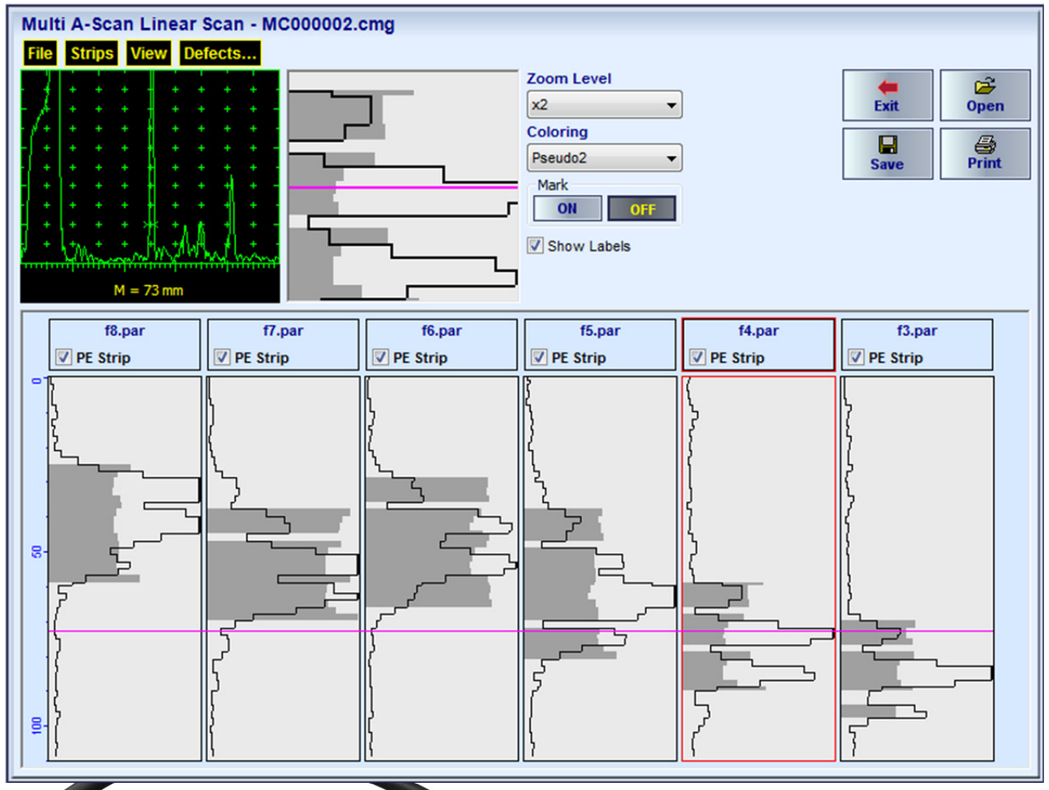
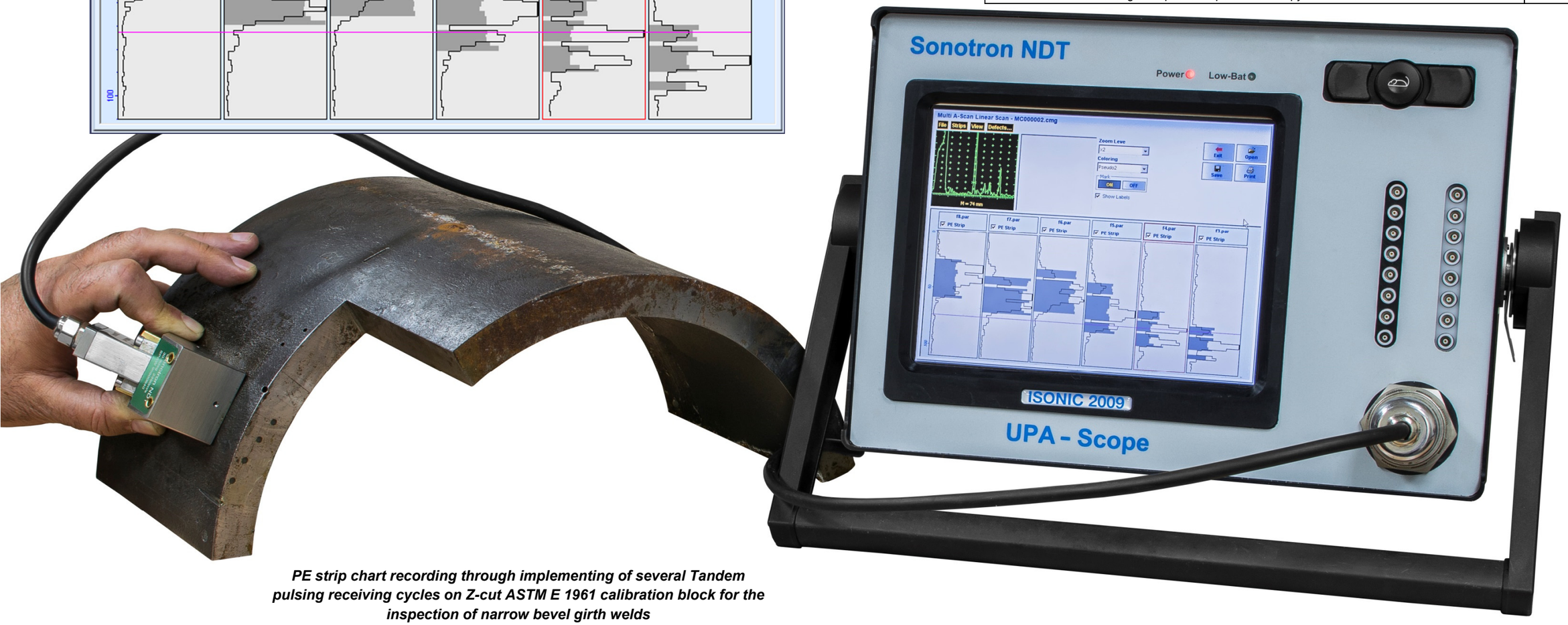
Item	Order Code (Part ##)
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: **MULTI A-SCAN - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart** ⇨ Use of Linear Array, Matrix Array and other PA probes ⇨ Multi A-Scan Screen Composed of the ISONIC PA Pulser Receiver files created in the appropriate inspecion application ⇨ Strip Chart Recording - Time Based and Encoded ⇨ Strip Types: ▶ Ampluitude / TOF Graph ▶ B-Scan ⇨ 100% Raw Data Capturing ⇨ Comprehensive Postrpocessing Including: → Play back and evaluation of the A-Scans captured during the inspection → Converting strips from Ampluitude / TOF Graph to B-Scan and viceversa → Off-Line Gain Manipulation (per strip) → Off-Line DAC Normalization of the B-Scan strips / DAC Evaluation → Numerous Filtering / Reject Options (by Gate / By Amplitude / dB-to-DAC / etc) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF/ MS Word File	SWA 909830





PE strip chart recording through implementing of several Tandem pulsing receiving cycles on Z-cut ASTM E 1961 calibration block for the inspection of narrow bevel girth welds

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Inspection SW Application for ISONIC 3510 - Phased Array Modality: **MULTI A-SCAN - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart** ⇨ Use of Linear Array, Matrix Array and other PA probes ⇨ Multi A-Scan Screen Composed of the ISONIC PA Pulser Receiver files created in the appropriate inspecion application ⇨ Strip Chart Recording - Time Based and Encoded ⇨ Strip Types: ▶ Ampluitude / TOF Graph ▶ B-Scan ⇨ 100% Raw Data Capturing ⇨ Comprehensive Postrpocessing Including: → Play back and evaluation of the A-Scans captured during the inspection → Converting strips from Ampluitude / TOF Graph to B-Scan and viceversa → Off-Line Gain Manipulation (per strip) → Off-Line DAC Normalization of the B-Scan strips / DAC Evaluation → Numerous Filtering / Reject Options (by Gate / By Amplitude / dB-to-DAC / etc) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF/ MS Word File	SWA 3510030

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