

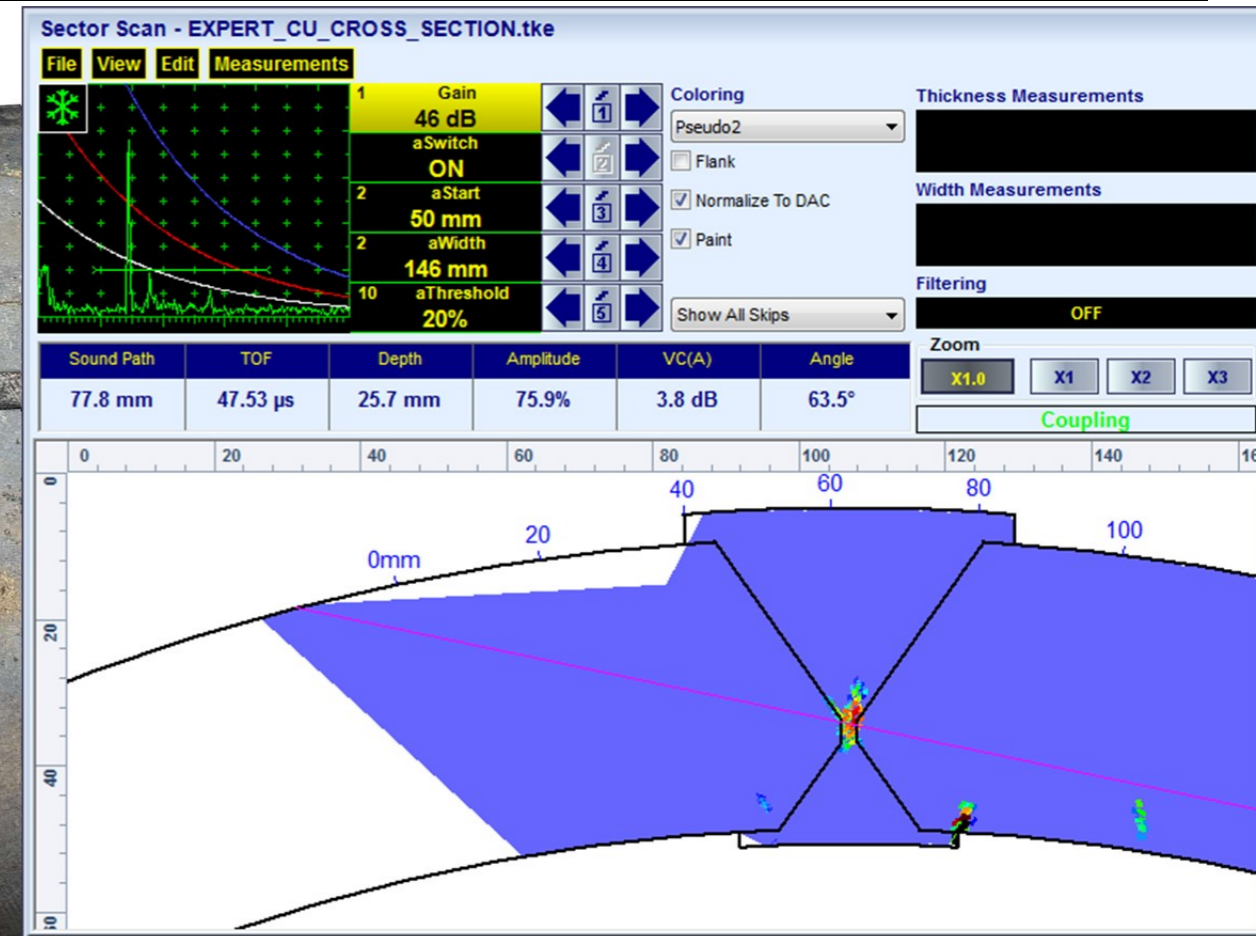


**ISONIC 3510**  
**Weld Inspection - Curved cross section welds**  
**Longitudinal welds in pipes**

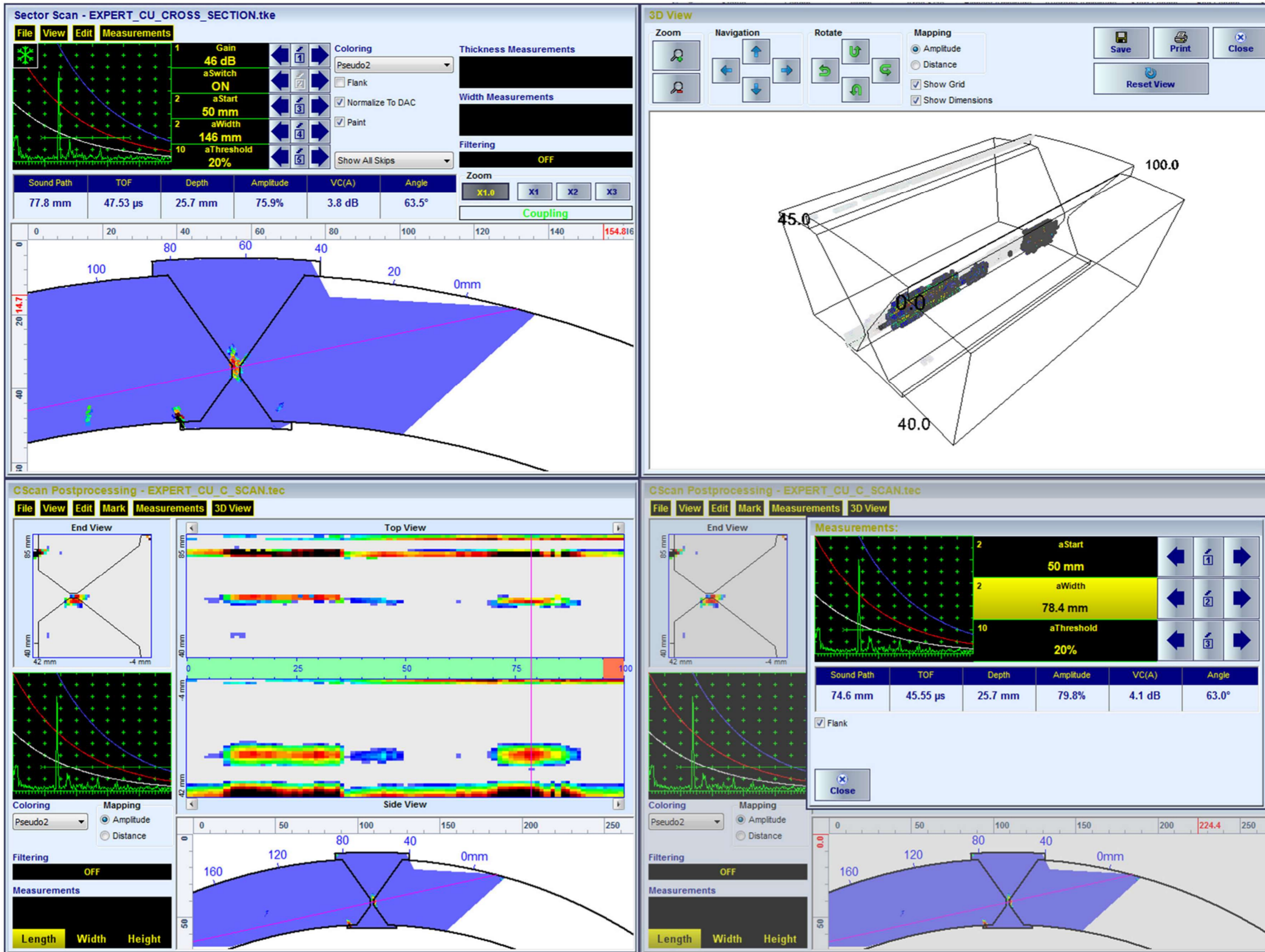
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Item	Order Code (Part #)
<b>Inspection SW Application for ISONIC 3510 - Phased Array Modality: Expert CU</b> ⇒ Weld Inspection - curved cross section welds - longitudinal welds in pipes, pressure vessels, and the like ⇒ Inspection of the parent material in the tubes, pressure vessels, solid and hollow shafts, and the like for the longitudinal cracks ⇒ Inspection of the tube walls for the corrosion damages - touch point corrosion, CUPS, etc - SRUT GW and shear wave multiple skip scanning above the OD surface - circumferential insonification ⇒ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇒ Sector-Scan Cross Sectional Coverage ⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇒ DAC / TCG Normalization ⇒ Built-In Weld Bevel Editor and Ray Tracer - Scanning Pattern Design ⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇒ Automatic Coupling Monitor ⇒ Encoded and Time based C-Scan ⇒ 100% Raw Data Capturing ⇒ FMC/TFM Protocol for the data acquisition and imaging ⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇒ Automatic Creation of Editable Defects List ⇒ Puzzling Suitable C-Scan Inspection Record - Ability of Scanning Weld In Several Shots from Both Side with Storing a Number of Files Mergeable Into a Single File Inspection Report ⇒ Comprehensive Postprocessing Including: → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans → Recovery of Cross Sectional Views from the Recorded C-Scans → Converting Recorded C-Scans or their Segments into 3D Images → Off-Line Gain Manipulation → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Numerous Filtering / Reject Options ( by Geometry / Position / By Amplitude db-toDAC / etc ) → Defects Sizing → Creation of Defect List and Storing it Into a Separate File → Automatic creating of inspection reports - hard copy / PDF File	SWA 3510005







Typical Postprocessing Screenshots





Inspection of longitudinal seam – scanning over ID surface o

