



Item	Order Code (Part ##)
<p>Inspection SW Application for ISONIC 3510 - Phased Array Modality: <b>Bridge Pin Test - Inspection of the Bridge Hanger Pins for the Transversal Cracks and Other Integrity Breaking Defects</b></p> <ul style="list-style-type: none"> <li>⇒ True-To-Geometry Bridge Pin Overlay Volume Corrected Imaging - Cross Sectional Along the Bridge Pin / Unfolded C-Scan / 3D</li> <li>⇒ Sector-Scan Cross Sectional Along the Bridge Pin Coverage with Probe Placed on the Outer Side Surface</li> <li>⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View</li> <li>⇒ DAC / TCG Normalization</li> <li>⇒ Built-In Bridge Pin Geometry Editor and Ray Tracer - Scanning Pattern Design</li> <li>⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction</li> <li>⇒ Encoded and Time based Unfolded C-Scan</li> <li>⇒ 100% Raw Data Capturing</li> <li>⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed</li> <li>⇒ Automatic Creation of Editable Defects List</li> <li>⇒ Comprehensive Postprocessing Including: <ul style="list-style-type: none"> <li>→ Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Along the Bridge Pin Views (Sector Scan) and C-Scans</li> <li>→ Recovery of Cross Sectional Along the Bridge Pin Views from the Recorded C-Scans</li> <li>→ Converting Recorded C-Scans or their Segments into 3D Images</li> <li>→ Off-Line Gain Manipulation</li> <li>→ Off-Line DAC Normalization of the Recorded Images / DAC Evaluation</li> <li>→ Numerous Filtering / Reject Options ( by Geometry / Position / By Amplitude / dB-to-DAC / etc )</li> <li>→ Defects Sizing</li> <li>→ Creation of Defect List and Storing it Into a Separate File</li> <li>→ Automatic creating of inspection reports - hard copy / PDF File</li> </ul> </li> </ul>	SWA 3510023

*Inspection of the bridge hanger pins – calibration / performance demonstration block*



Item	Order Code (Part #)
<p>Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: <b>Bridge Pin Test - Inspection of the Bridge Hanger Pins for the Transversal Cracks and Other Integrity Breacking Defects</b></p> <ul style="list-style-type: none"> <li>⇒ True-To-Geometry Bridge Pin Overlay Volume Corrected Imaging - Cross Sectional Along the Bridge Pin / Unfolded C-Scan / 3D</li> <li>⇒ Sector-Scan Cross Sectional Along the Bridge Pin Coverage with Probe Placed on the Outer Side Surface</li> <li>⇒ Intuitive Image Guided PA Pulser Receiver with Beam Forming View</li> <li>⇒ DAC / TCG Normalization</li> <li>⇒ Built-In Bridge Pin Geometry Editor and Ray Tracer - Scanning Pattern Design</li> <li>⇒ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction</li> <li>⇒ Encoded and Time based Unfolded C-Scan</li> <li>⇒ 100% Raw Data Capturing</li> <li>⇒ Automatic Defects Alarming Upon C-Scan Acquisition Completed</li> <li>⇒ Automatic Creation of Editable Defects List</li> <li>⇒ Comprehensive Postprocessing Including: <ul style="list-style-type: none"> <li>→ Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Along the Bridge Pin Views (Sector Scan) and C-Scans</li> <li>→ Recovery of Cross Sectional Along the Bridge Pin Views from the Recorded C-Scans</li> <li>→ Converting Recorded C-Scans or their Segments into 3D Images</li> <li>→ Off-Line Gain Manipulation</li> <li>→ Off-Line DAC Normalization of the Recorded Images / DAC Evaluation</li> <li>→ Numerous Filtering / Reject Options ( by Geometry / Position / By Amplitude / dB-to-DAC / etc )</li> <li>→ Defects Sizing</li> <li>→ Creation of Defect List and Storing it Into a Separate File</li> <li>→ Automatic creating of inspection reports - hard copy / PDF File</li> </ul> </li> </ul>	SWA 910823

*Inspection of the bridge hanger pins – calibration / performance demonstration block*

Typical Postprocessing Screenshots

**Bridge Pin Scan - BRIDGE\_PIN.sbp**

File View Edit Measurements

Gain: 55 dB  
aSwitch: ON  
aStart: 90 mm  
aWidth: 40 mm  
aThreshold: 20%

Coloring: Pseudo2  
 Flank  
 Normalize To DAC  
 Paint

Thickness Measurements: [ ]  
Width Measurements: [ ]  
Filtering: OFF

Sound Path	TOF	Depth	Amplitude	VC(A)	Angle
124.5 mm	42.28 μs	112.8 mm	78.3%	5.4 dB	25.0°

Zoom: X1.0 X1 X2 X3

**CScan Postprocessing - BRIDGE\_PIN\_C\_SCAN.scp**

File View Edit Mark Measurements 3D View

Coloring: Pseudo2  
Mapping: Amplitude  
Mark: CScan ON, BScan ON  
Filtering: OFF

Measurements: Length Width Height

**CScan Postprocessing - BRIDGE\_PIN\_C\_SCAN.scp**

File View Edit Mark Measurements 3D View

Coloring: Pseudo2  
Mapping: Amplitude  
Mark: CScan OFF, BScan OFF  
Filtering: OFF

Measurements: Length Width Height

**Measurements:**  
aStart: 84 mm  
aWidth: 54.1 mm  
aThreshold: 20%

Sound Path	TOF	Depth	Amplitude	VC(A)	Angle
125.0 mm	42.45 μs	114.2 mm	65.0%	3.8 dB	24.0°

Flank

Close

**3D View**

Zoom Navigation Rotate Mapping: Amplitude, Distance, Show Grid, Show Dimensions

Save Print Close Reset View