

Automated Detection Technology™ Performance Specification



Computer and Software Requirements

Operating System	64-bit Microsoft® Windows® 7, 8, 8.1, 10
CPU	Intel® Core™ i7 1.8Ghz Dual Core or greater (or equivalent)
Memory	Minimum 8GB of RAM (16GB recommended)
Hard Disk Space	Approximately 350MB of available Space for installation
Additional Software Requirements	Microsoft Excel® for Report, Internet Connection*

Data Requirements

Data File Compatibility	OmniScan® MX2/SX .opd Data Files (4.4R4 and later)
Inspection Data	1-Axis Encoded Phased Array Files (Full A-scan Data Saved)
Scan Parameters	Sectorial Scans or Compound Scans (5" minimum Scan Length)
Data Parameters	Accurate Weld Overlay, Correct Offsets
Weld Inspection Configurations	Single Vee or Double Vee Butt Welds

Optimal Part Parameters

Part Thickness	.200"-1"
Part Material Type	Carbon Steel

Optimal Data Acquisition Settings

Angular Sweep Range	43°-72°
Resolution	1° Angular, .039" Scan
Data Point Quantity	320 points
Probe Frequency	2-10 MHz
Testing Method	Pulse-Echo Shear Wave (1D Linear Arrays)
Probe Filtering	Bandwidth Filter centered around Probe Frequency
PRF	Optimized (No spurious Noise from excessive PRF)
Calibration and Sensitivity (Total Gain, TCG, Voltage etc.)	Proper Sensitivity and Calibrations per Referencing Code
Scan Plan	Full Weld Coverage (3 leg minimum for Inspection Coverage) Consistent Index Offset

Optimal Parameters: ADT has been thoroughly tested within these settings. Care should be taken when attempting to operate outside these settings.

*Internet Connection: An internet connection is periodically required for software download, authentication, updates and potential other software functions. Normal use of the software does not require an active internet connection.

For inquires please contact us at
www.veriphase.net/contact

Patent No.: US 10,324,066 B1; Foreign and Domestic Patents Pending.

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