FocusScan RX II

A powerful, feature-rich advanced acquisition solution engineered to meet the rigorous demands of ultrasonic inspections. Designed to deliver precise, reliable assessments the Focus Scan RX II accurately identifies and evaluates critical defects to ensure asset integrity. With advanced phased array capabilities, including effective Total Focusing Method (TFM), and innovative Phase Coherence Imaging (PCI), this powerful unit can detect and interpret even the most challenging flaws.

Unmatched Features for Advanced Ultrasonic Inspection

The Focus Scan RX II sets a new industry standard with unmatched key features as standard including two 64-element IPEX connectors and eight UT connectors with dedicated electronics for each; Integrated two-axis motor drive control; Positional encoding; 12” wide-aspect touchscreen; Bandwidth .25 – 25 MHz; Complete software suite included.

A Complete Solution: FSRX II and TD Scan Software

The FSRX II includes TD Scan, our fully integrated software suite that brings Full Matrix Capture (FMC), TFM, PWI, PCI, Phased Array, TOFD, and Pulse echo capabilities to your inspection workflow. Highly configurable controls bring real-time encoded, multi-channel TFM into your inspection plans allowing inspectors to identify damage earlier and evaluate the severity of cracks, other flaws, and corrosion to protect welds, components, and assets.
ESBeamTool® is also included as standard, providing operators of all levels with the confidence to apply the full range of powerful detection and analysis techniques.

General Flaw Detection
Pressure Vessels
Pipeline Girth Welds
Structural Welds
Forgings & Castings
Turbine Disks & Blades
Corrosion Surveys
Composites
Aircraft Components
Hydrogen Damage Surveys
HTHA Surveys
HDPE Inspection

Phased Array/TFM
FMC – Full Matrix Capture, HMC – Half Matrix Capture, Custom, Virtual Source – Linear & Swept, PWI – Plane Wave Imaging, PCI – Phase Coherence Imaging
TOFD
Pulse Echo
AWS
Strip-Scan
Long Range (Creeping Head Inspection Method corrosion detection)
TD Super-View
ESBeamTool® included

Features	Benefits
Dual 64-Element IPEX Connectors	Maximises connectivity and data capture.
Eight UT Connectors	Supports versatile inspection setups tailored to complex and diverse inspection requirements.
Dedicated electronics for Phased Array and Conventional Channels	UT channels are not “borrowed” from PA, allowing each technique to independently deliver superior quality and results.
Integrated Two-Axis Motor Drive Control	Simplifies inspection set-ups and reduces costs by eliminating the need for an external motor control system.
12” Wide-Aspect Touchscreen	A larger than average screen to display critical inspection data, allowing users to interact intuitively with controls.
Wide Bandwidth Range (0.25 – 25 MHz)	Adapts to a wide range of material thicknesses and supports an extensive range of inspection applications.
Voltage up to 190v for Phased Array and UT	Ensures excellent penetrating power for testing thick or highly attenuative materials.
Digitisation frequency up to 100MHz for PA and Pulse-Echo	Delivers greater defect resolution.
Digitisation frequency up to 200 MHz for TOFD	Enhances the ability to inspect thinner materials and improve resolution when combined with high-frequency probes.
Integration with Eclipse Scientific BeamTool®	Streamlines inspection workflows by importing setups and overlays directly from BeamTool® files.
Open Architecture Software Structure	Enables 100% user configurability, unlocking the full potential of the system, for customised solutions and enhanced system capabilities.
Automation Integration	Supports interaction with third-party software and systems, enhancing accessibility to data and electronics.
Up to 64/128PR Phased Array	Superior focusing capability for thicker materials.
FMC / TFM / PWI / VS / PCI	Maintains scan speeds comparable to traditional phased arrays while improving performance. PCI reduces sensitivity to probe orientation and detects smaller defects effectively.
2D Matrix, Dual Matrix and Dual Linear Array support	Produces enhanced imaging quality for focused scans and welds in dissimilar materials.
Simultaneous PA, ToFD and PE Acquisition	Boosts productivity by reducing inspection time through concurrent data acquisition.
Multi-Channel / Group Data Acquisition	Further enhances productivity by allowing **simultaneous** data collection across multiple channels or groups.
2 Axis Encoding and Video Tracking	Enables area scans with ease and Video tracking facilitates non-mechanical X/Y scanning.
128GB SSD Storage	Offers convenient high-capacity storage for inspection data, eliminating the need for external storage devices.
Positional Encoding	Ensures accurate, repeatable measurements for reliable results.
Powerful Analysis and Reporting Functions (Integrated with TDScan Software)	Eliminates the need for additional analysis software, streamlining workflows with integrated reporting capabilities.
Three USB Ports	Provides connectivity for external services such as GPS, Additional data storage, Bluetooth devices and WiFi devices.
Hot Swappable, User Replaceable Batteries	Enables uninterrupted inspections by cycling batteries without shutdown, to improve efficiency.


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