

Item	Specification	ECHO 9 Corrosion Gage				ECHO 7 Precision Gage				ECHO 8 Corrosion & Precision Gage				ECHO FD Flaw Detector			
		9	9W	9 DL	9 DLW	7	7W	7 DL	7 DLW	8	8W	8 DL	8 DLW	FD	9FD	7FD	8FD
Scan Mode	4 or 25 Hz, displays actual and min or max at same time	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	/	/	/	/
Datalogger	Internal and micro sd card based datalogger with linear, 2D, 3D boiler and some with custom points (interfaces with Excel)	0	0	✓	✓	0	0	✓	✓	0	0	✓	✓	✓	✓	✓	✓
Memory	Internal memory, 2 GB standard, expandable to 32 GB micro sd card	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flaw Detector	Ultrasonic flaw detector: 60 Hz, update rate, 2 gates, aws code, dac, datalogger, manual B-scan	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
Corrosion Thickness Gage	Ultrasonic corrosion gage using primarily dual probes, A and B-scan, echo to echo, datalogger	✓	✓	✓	✓	0	0	0	0	✓	✓	✓	✓	0	✓	0	0
Precision Thickness Gage	Ultrasonic precision gage (1 micron resolution) using single element probes, A and B-scan, echo to echo, datalogger	0	0	0	0	✓	✓	✓	✓	✓	✓	✓	✓	0	0	✓	0
Display Update	Fast 60 Hz update rate	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
DAC	Distance Amplitude Correction (DAC), ASME, ASME 3, JIS and Custom	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
AWS	American Welding Society (AWS) code for D rating	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
Floating and Tracking Gates	Floats gate at -1 to -18dB for consistent, 60 Hz update rate edge depth thickness readings, includes tracking gate for echo to echo readings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auto 80	Automatically adjusts echo to 80 Full Screen Height (FSH) for gate 1	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
Peak Pitch Memory	Variable Chirp of gate 1 signal in peak hold for peaking signals as an audible indicator	0	0	0	0	0	0	0	0	0	0	0	0	✓	✓	✓	✓
Echo to Echo	Measures the metal thickness only (ignores paint and coatings)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range	Adjustment of manual range control or auto zoom tracking to center echos independent of selected range	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A
Rectification	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification	0	✓	0	✓	0	✓	0	✓	0	✓	0	✓	✓	✓	✓	✓
Live Waveform (A-scan)	Full Adjustments, for gain in 1dB step or AGC, main bang blank, blank after first received echo, range including zoom auto tracking to center echos independent of material rectification	0	✓	0	✓	0	✓	0	✓	0	✓	0	✓	✓	✓	✓	✓
B-scan (Non-encoded)	Displays a cross section of the test piece	0	0	✓	✓	0	0	✓	✓	0	0	✓	✓	✓	✓	✓	✓
B-scan (Encoded)	Displays a cross section of the test piece using the EZ Scan magnetic wheel linear access encoder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temperature Correction	Corrects thickness value for sound speed difference at elevated temperatures	0	✓	✓	✓	0	✓	✓	✓	0	✓	✓	✓	0	0	0	0
Coating Thickness	Displays coating and substrate thicknesses simultaneously	0	✓	✓	✓	0	✓	✓	✓	0	✓	✓	✓	0	0	0	0
Oxide Scale	Simultaneously displays the thickness of the oxide layer and boiler tube thickness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auto Phase Reversal with Alarm	Automatically can alarm on a phase change in RF mode	0	0	0	0	0	✓	0	✓	0	✓	0	✓	0	0	✓	✓

0 = Software Options that are field upgradeable. Encoded B-scan requires additional hardware modifications.



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