SCREENING EAGLE | proceq

Flaw Detection

FD100 UT ⚠

Ultrasound Inspection for different type of materials, metal and not metal, such as composite or plastic

Upgrade-ready

The Proceq Flaw Detector 100 can be upgraded with the Ultrasonic Time of Flight Diffraction (TOFD) and Phased Array (PA) modes anytime and anywhere, even on-site.

Precision

It offers outstanding, powerful hardware, a true square wave pulser, 200MHz digitizing frequency, broad system bandwidth from 200 kHz to 20 MHz, and twin axis encoding to offer users an extremely comprehensive measurement solution.

Interactive

With a built-in 3D beamtool showing the part, weld, wedge, probe, scan coverage, and a real-time interactive ray-tracer which plots the beam path and indication location directly in the part. This powerfully helps assess and communicate the indication location easily.

Instrument
Tech Specs

Configuration	2 UT Channels
Transducer Socket	Lemo 1 or BNC
Pulse Voltage	100 to 450 V (square pulse)
PRF	1000 to 1500 Hz
Gain Range	100 dB (0.1 dB steps)
Bandwidth	0.2 - 22 MHz
Display	TFT 8.4"
Signal Enhancement	Digital filters, smoothing, contouring, rejection, averaging
Architecture	2 channels, true 200 MHz sampling rate
Digitizing Frequency	50 MHz, 100 MHz, 200 MHz
Supported Scans	A, B, C, Top and End
Number of Scans	Up to 2
Number of Layouts	18
Measurements	Path length, depth, surface distance, DAC, AWS, DGS
File Size	Up to 3 GB
Report Generation	Customisable pdf report, PNG screen capture, CSV file output option
Encoder	1 or 2 axis (quadrature input)
Languages	English, German, French, Spanish, Russian, Chinese, Hungarian, Italian, Portuguese, and Japanese
Battery Life	7 Hrs
Special Features	IP66

Standards & Guidelines	Description
ГОСТ 14782	
ГОСТ 55724	
EN 12668-1	