



Flaw Detection

FD100

Dynamic ultrasound inspection for several types of materials including composite, plastic and metal.



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

Outstanding hardware with a true square wave pulser, 200MHz digitizing frequency, and broad system bandwidth from 200 kHz to 20 MHz. Plus, twin axis encoding to offer an extremely comprehensive measurement solution.



Interactive

Built-in 3D beamtool showing the part, weld, wedge, probe, and scan coverage. Real-time interactive ray-tracer which plots the beam path and indicates location directly in the part, so you can assess and communicate the location easily.



Instrument Tech Specs

Configuration	UT/TOFD: 2 UT Channels PA also 1 I-PEX PA
Transducer Socket	UT/TOFD: Lemo 1 or BNC PA: I-PEX
Pulse Voltage	UT/TOFD: 100 to 450 V (10V steps) PA: 25 to 75 V (5V steps)
PRF	UT/TOFD: 1 to 1500 Hz PA: 1 to 5000 Hz
Gain Range	UT/TOFD: 100 dB (0.1 dB steps) PA: 76 dB (0.1 dB steps)
Bandwidth	UT/TOFD: 200 kHz to 22 MHz PA: 200kHz to 14MHz
Display	TFT 8.4"
Signal Enhancement	Digital filters, smoothing, contouring, rejection, averaging
Architecture	2 channels PA16:16: 16 active channels PA16:64: 64 active channels
Digitizing Frequency	UT/TOFD: 50 MHz, 100 MHz, 200 MHz PA: 65 MHz
Focal Laws	UT/TOFD: na PA: 128
Supported Scans	UT: A, B, C TOFD: A, B, C-Scan, Merged & TOFD PA: A, B, C, L, S-Scan, Merged, true Top & End
Number of Scans	UT/TOFD: Up to 2 PA: 1 (with up to 3 extracted A scans)
Number of Layouts	UT/TOFD: 18 PA: 35
Measurements	Path length, depth, surface distance, DAC, AWS, DGS, TGS
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	UT/TOFD: 7 Hrs PA: 6 Hrs
IP rating	IP66

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

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