



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 | |

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