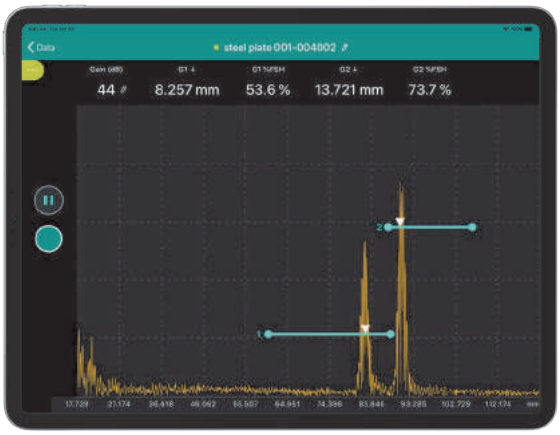
Proceq® Flaw Detector Live



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UT8000

Flaw detection of metal and composite components using ultrasonic testing

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Versatility

Ultralight, heavy-duty, IP67. Flexible screen size for unmatched portability. Your companion of choice for the most demanding inspection jobs.

Collaboration

Intelligent software lets you annotate measurements with voice, photos, and comments. Generate reports and share them instantly. Access your data from anywhere, anytime.

Peace of Mind

The only flaw detector that can rewind time to replay the inspection process. Automated logging of measurement settings finally makes your procedures traceable.

Proceq® UT8000

General	
Proceq® UT8000 (793 10 500)	Base unit, battery pack, batteries, power supply, belt holder, screwdriver, documentation, carrying case
Compliance	EN 12668-1:2010; ASTM E317-16
User Interface Languages	English, Spanish, French, German, Japanese, Chinese, Korean
Transducer connections	LEMO 00
Data storage	Up to 1 terabyte (TB), depending on iPad model
Battery type and life	6x AA rechargeable batteries; 5 h autonomy; compatible with off-the-shelf USB power banks
Power requirements	Universal AC (100-240 V, 50-60 Hz)
Display type	2048 × 1536 / 326 PPI; fully laminated with antireflective coating and up to 120 Hz refresh rate
Display dimensions	7.9" – 12.9" diagonal
Overall Dimensions (W × H × D)	215 mm × 101 mm × 36 mm 8.46" x 3.97" x 1.42"
Weight	698 g, incl. battery pack 1.54 lbs incl. battery pack
USB ports	2x USB-C
Video output	Digital; wireless over Apple TV; HDMI/VGA/DisplayPort (via third-party adapter)
Environmental ratings	
IP rating	IP67
Shock tested	MIL-STD-810F; Method 516.5; Procedure I, 6 cycles each axis; 15 g; 11 ms half sine
Vibration tested	MIL-STD-810F; Method 514.5; Procedure I, Annex C; Figure 6; general exposure; 1 h / axis
Operating temperature Proceq UT8000	-10 to 50 °C (14 to 122 °F)
Battery operating temperature	0 to 40 °C (32 to 122 °F)
Battery storage temperature	0 to 50 °C (32 to 122 °F)
Pulser	
Pulser	Tunable square wave
PRF	10 – 2000 Hz, in increments of 10 Hz
Energy settings	50, 100 or 400 V
Pulse width	Adjustable; 25 – 2500 nsec
Damping	50, 400 Ω
Receiver	
Gain	0 – 110 dB
Receiver input impedance	400±5% Ω
Receiver bandwidth	0.25 – 20 MHz at -3 dB EN12668 compliant
Digital filter settings	8 digital filter sets
Rectification	Full-Wave; Positive Half-Wave; Negative Half-Wave; RF
System linearity	Horizontal, ±0.5% FSW
Sampling frequency	125 MHz
Reject	0 – 100% FSH, in increments of 1%
Amplitude measurement	0.1% – 125% full screen height
Measurement rate	Equivalent to PRF in all modes (single shot)

Calibration	
Automated calibration	Velocity, zero offset
Test modes	Pulse echo, dual, through transmission or grid
Units	Millimeters, inches, or microseconds
Range	3 – 11760 mm at 5900 m/s
Velocity	100 – 10000 m/s
Zero offset	0 – 50 mm
Display delay	up to full range
Refracted angle	0° – 90° in 1° increments

Gates	
Measurement gates	2x, fully independent
Gate start	Variable over entire displayed range
Gate width	Variable, from 0.30 µs to end of displayed range
Gate height	Variable, 1% – 100% full screen height, in increments of 1%
Alarms	Positive and negative threshold/curve

Measurements	
Measurement display locations	Up to 5 locations (manual or auto selection)
Gate (1, 2)	Thickness, sound path, projection, depth, amplitude, time-of-flight, min./max. depth, min./max. amplitude, sizing measurements based on mode
Echo-to-echo	Standard gate 2 – gate 1
DAC/TCG	Standard, up to 10 points, 110 dB dynamic TCG range
Special	DAC modes: Custom DAC (up to 6 curves), 20% – 80% view

Software sourcing options	
Pro (793 65 150)	Initial subscription (24 months)
Pro renewal (793 65 151)	Subsequent yearly subscription fee

Accessories	
Spare battery pack (793 30 110)	Battery pack including 6xAA rechargeable batteries
Tablet holder (793 30 120)	iPad Mini – iPad Air
Supporting accessories	Wide range of ultrasonic transducers, cables and calibration blocks, please call your local representative for more information.

Download on the App Store

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