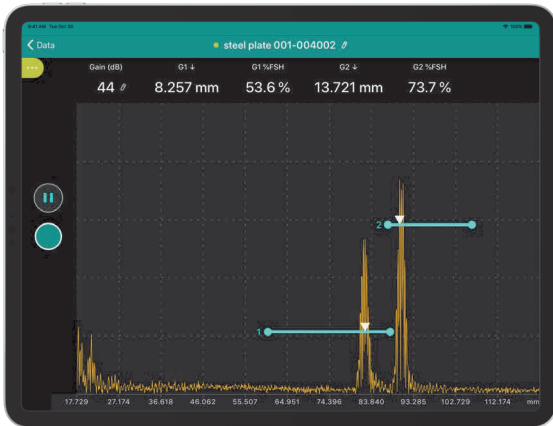


# Proceq® Flaw Detector Live



UT8000

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## 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" × 3.97" × 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)
<b>Environmental ratings</b>	
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)
<b>Pulser</b>	
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
<b>Receiver</b>	
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.

iPad is a trademark of Apple Inc.

