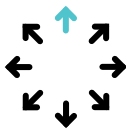


## Flaw Detection UT8000

Portable ultrasound flaw detector for different types of material and components. Delivering fully traceable inspection data and rapid report creation.



### Swiss Quality

Swiss Quality for unmatched performance and ruggedness. A unit that can meet the most demanding environment and requirements.



### Enhanced Productivity

No adaptation time needed: learn within 1 hour and start your inspection with the most intuitive, user-friendly, feature-rich, intelligent software



### Peace of Mind

The unique Rewind and log-book functions record and secure set-ups and inspection results, enabling on-demand assessment of inspection parameters. Including GPS locations, photos of the components and even audio messages.

# 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 $\Omega$

## Receiver

Gain	0 – 110 dB
Receiver input impedance	400±5% $\Omega$
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 $\mu$ s 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

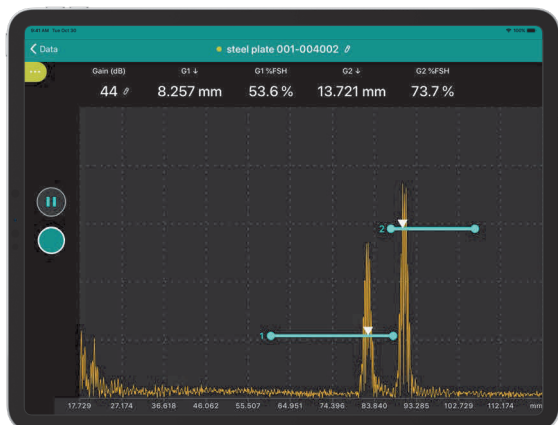
## Accessories

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.



# 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.



## Software / Workspace App

<b>Automated calibration</b>	Velocity, zero offset
<b>Test modes</b>	Pulse echo, dual, through transmission or grid
<b>Units</b>	Millimeters, inches, or microseconds
<b>Range</b>	3 – 11760 mm at 5900 m/s
<b>Velocity</b>	100 – 10000 m/s
<b>Zero offset</b>	0 – 50 mm
<b>Display delay</b>	up to full range
<b>Refracted angle</b>	0° – 90° in 1° increments
<b>Measurement gates</b>	2x, fully independent
<b>Gate start</b>	Variable over entire displayed range
<b>Gate height</b>	Variable, 1% – 100% full-screen height, in increments of 1%
<b>Alarms</b>	Positive and negative threshold/curve
<b>Measurement display locations</b>	Up to 5 locations (manual or auto selection)
<b>Echo-to-echo</b>	Standard gate 2 – gate 1
<b>DAC/TCG</b>	Standard, up to 10 points, 110 dB dynamic TCG range
<b>Special</b>	DAC modes: Custom DAC (up to 6 curves), 20% – 80% view



## Processing Unit / Sensor

<b>Configuration</b>	1 UT channel
<b>Transducer Socket</b>	Lemo 00
<b>Pulse Voltage</b>	100 to 400 V (square pulse)
<b>PRF</b>	2000 Hz
<b>Gain Range</b>	0-110 dB
<b>Bandwidth</b>	0.2 - 20MHz
<b>Display</b>	Any compatible Apple® iPad (iOS 11 and higher)
<b>Memory</b>	Up to 1 TB (depending on the iPad model)
<b>Connections</b>	Encrypted Wi-Fi connection to iPad
<b>Signal Enhancement</b>	Digital and analogue filters, rejection, averaging
<b>Architecture</b>	1 channel
<b>Digitizing Frequency</b>	125 MHz
<b>Supported Scans</b>	A-Scan, Grid
<b>Measurements</b>	Path length, depth, surface distance, DAC, AWS
<b>Report Generation</b>	Indication table, HTML export
<b>Encoder</b>	Ready
<b>Languages</b>	English, German, Italian, French, Spanish, Chinese, Japanese, Korean, Russian
<b>Battery</b>	Removable pack, 6x AA (NiMH), flight-safe
<b>Battery Life</b>	5 Hrs
<b>Special Features</b>	IP67



SWISS  MADE

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