Proceq® Flaw Detector Live

Flaw detection of metal and composite components using ultrasonic testing

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 x 1536 / 326 PPI; fully laminated with antireflective coating and up to 120 Hz refresh rate
- **Display dimensions**: 7.9” – 12.9” diagonal
- **Weight**: 698 g, incl. battery pack
- **USB ports**: 2x USB-C
- **Video output**: Digital; wireless over Apple TV; HDMI/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
- **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.

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**Proceq**

[www.proceq.com](http://www.proceq.com)