

TRAINDE^{UT}

BY EXTENDE

Innovative tools for the training
of NDT operators



Affordable & accessible material (in the "Ready to play" package)

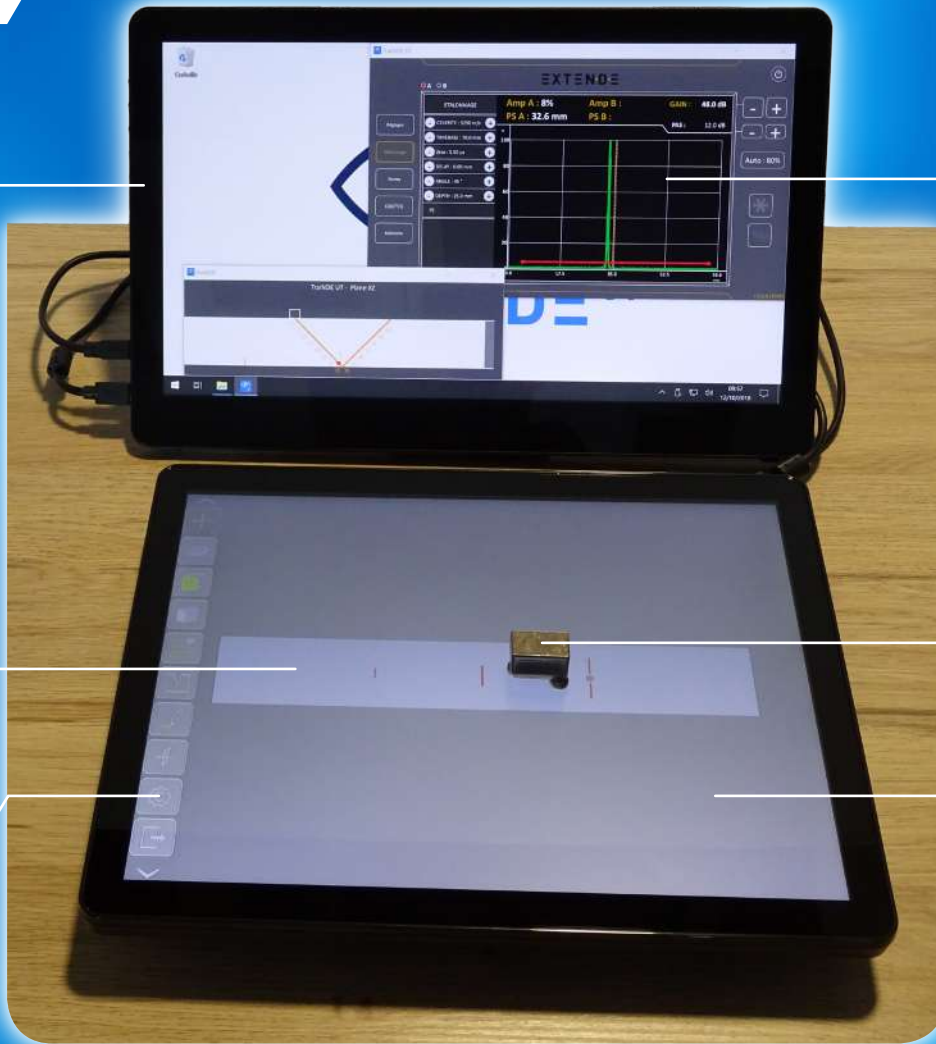
Virtual UT device

Virtual test specimen

Dummy probes

Educational tools

Screen (in the "Ready to play" package)



CHANGE YOUR TRAINING PROCESS

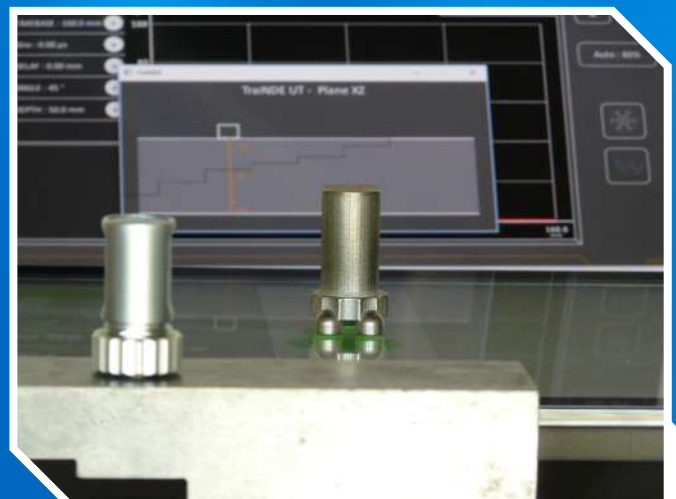
TraiNDE UT is a manual Ultrasonic Testing simulator that helps trainers teach operators on Ultrasonic Testing. It **reproduces real inspection conditions** for a number of applications. Trainers will be able to **deliver clearer information** using its educational functionalities with real examples. The dynamic displays and probe handling mimic real inspection behaviors.

SIMPLE CONCEPT, AFFORDABLE MATERIAL

The operator handles a dummy probe on the digital mockup. Its position and skew are located on the block, and the related signal is displayed on the digital UT device **in real time**. TraiNDE UT runs on an i5 CPU (or equivalent) with 8 Go RAM and two screens. Travel light with compact equipment!

CUSTOMIZABLE AND SCALABLE

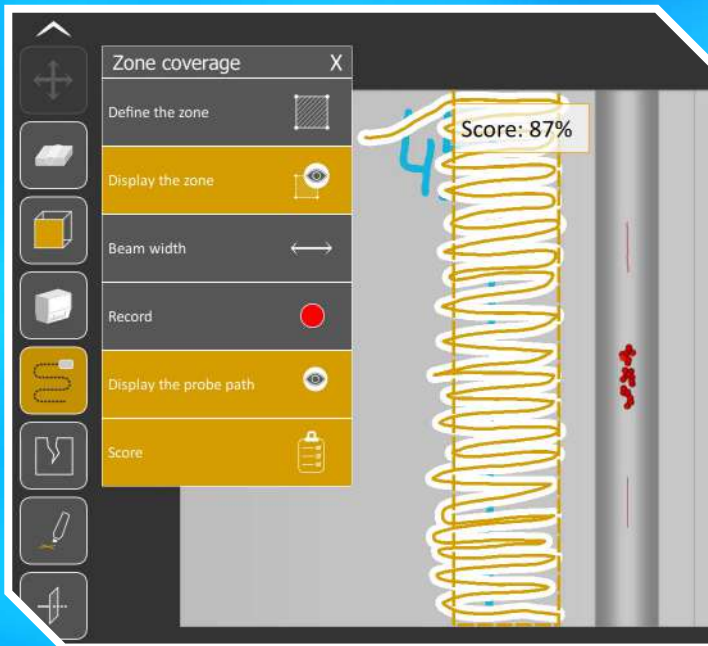
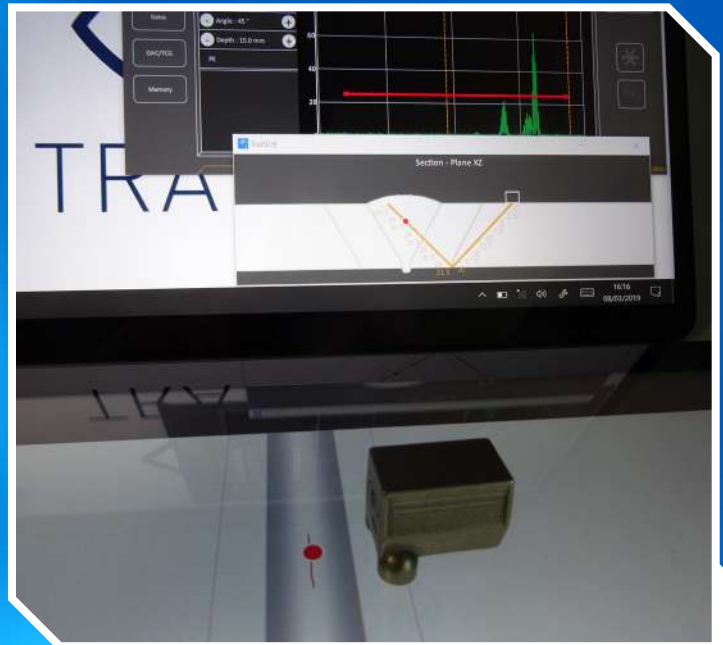
TraiNDE UT is designed for training centers, companies with internal training/qualification needs, and universities. The multiple exercises cover the UT operator's skills: detection, sizing, and characterization. The exercises are **customizable** in order to enable/disable educational tools depending on the trainees' progress. Enrich your TraiNDE UT with **additional blocks** through the store, or, if you have specific needs, with your **dedicated blocks** (contact us).



EXERCISE APPROACH

TraiNDE UT is delivered with a set of exercises. Each exercise is packaged to include calibration, sensitivity and test blocks with the relevant probes. **15 virtual components** are available:

- Calibration: V1 and V2 blocks (LW0°, SW45°, SW60° and SW70° probes)
- Sensitivity: DAC IS-US 50 (SW45°, SW60° and SW70° probes) and step block (LW0° probe)
- 2 educational blocks: irregular connected crack (SW45° probe) and weld with planar / volumetric flaws (SW45° and SW60° probes)
- 6 plates with different thickness and flaws (L0° probe)
- 3 welds blocks



EDUCATIONAL FEATURES

The digital UT device offers the features of flaw detectors: gain, calibration, gates, echodynamic, DAC/TCG, memory. The trainees can then **switch** between TraiNDE UT and real flaw detector **and apply the same methodology**. The section view displays what is often not clear for the trainees: **how to interpret** the signal in the component geometry. The zone coverage records the probe's path in order to check the trainee's capability to inspect the specified volume.

2 PACKAGES

	Essential (Install TraiNDE UT on your computer*)	Ready to play (Run TraiNDE UT out of the box)
TraiNDE UT software	✓	✓
Dummy probe	✓	✓
14 exercises	✓	✓
Laptop and external screen		✓
Pre-installed		✓



*Minimal setup: Windows 10, CPU Intel i5 (or equivalent), 8Go RAM, 2 touch screens > 14" Full HD

THEY TESTED IT

« The inspection workflow is strictly identical to that which would be carried out with physical equipment (ultrasonic device, calibration blocks and real components with defects). »

– P. Pichard (retired UT trainer)

« Quick learning, impressive realism, practical, scalable, in line with expectations. »

– B. Trehorel (UT3 / PT3 / MT3 / VT3)

Find live demo and a full presentation on
www.youtube.com/extendechannel



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