

USLT USB: Spot Weld Inspection System

Reliable ultrasonic flaw detection paired with updated software and portability standards

- Portable & ergonomic
- Proven electronics & software

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Field-proven testing capabilities

The USLT USB's software package has been updated with full support for Microsoft Windows 10. Inspectors can now enjoy the familiar performance and ease-of-use provided by the USLT USB spot weld checker with modern computers. The update retains all the features and benefits that helped establish the USLT USB as an industry standard in the automotive sector. Improved software compatibility and a flexible USB interface allow for easy connectivity.

A portable and ergonomic package

The USLT USB is now available in a bundle with a Panasonic Toughbook CF-20 – the state-of-the-art detach-able laptop from Panasonic – and a custom-made carrying pouch in which the USLT-USB can be stored during operation. The fully ruggedized business laptop can convert into a tablet, allowing for the integrated USLT/Laptop package to be easily carried towards the spot welds in the production environment.

Simple operation

The USLT USB is an intelligent interface between the ultrasonic sensor and a standard PC, which is used for display and analysis. Its compact aluminum chassis contains all the necessary pulser and receiver electronics. It connects to an ultrasonic sensor on one end and can be plugged into any standard computer through a USB connection on the other. This allows for optimal operation via keyboard, mouse or (even) touch screen.



Developed specifically for the evaluation and documentation of spot weld inspections, it can be used to analyze A-scan echo displays and allows flaws to be classified into detailed categories, such as sound spot weld, loose or burnt spot weld, inadequate weld nugget diameter, etc.

The software's extensive database also allows the management of specific inspection plans, tailored to suit particular manufacturing processes.

The USLT-USB is stored in a **handy carrying pouch**. The laptop can be used as a tablet when the keyboard is detached.

Great flexibility at high accuracy

Its top performance, achieved through the miniaturization of the electronics, is the essence of the USLT USB. It excels with high measuring accuracy and a wide frequency range. In addition, the spot checker offers a wide range of features that allow you to customize the instrument to meet your specific application needs.

This includes:

- A choice of echo display mode to assist evaluation
- The ability to superimpose a stored test display onto a live A-scan to compare results
- The ability to record echo dynamics and simultaneously display real time signals
- The availability of adjustable signal averaging
- DGS curves are available for all valid equivalent reflector sizes and probes with DGS capability
- Can use both DAC and TCG

The USLT USB offers universal evaluation options for detected indications to meet both national and international test specifications.

Updated software package

The Ultralog & database manager software packages, developed specifically for the evaluation and documentation of spotweld inspections, has been updated to support Microsoft Windows 10.