

Z-scan Lite is the portable manual C-Scan imaging system for corrosion mapping

Z-scan Lite is a portable, battery operated PC based digital ultrasonic C-scan imaging system designed for ease of operation within the Petro-Chemical environment.

The Z-scan Lite comprises three sections:

a) The manual, dual axis encoded, scanner utilises a 5 MHz dual dry coupled wheel probe allowing C-scan ultrasonic imaging to be carried out without the need for traditional ultrasonic couplant. The scanner is suitable for both plate and pipe from 200mm diameter to flat.



b) The battery operated [7 hours on a full charge] digital ultrasonic transmitter / receiver

processes the UT signals and combines this information with detailed positional information from the dual axis encoder.

c) The latest generation ORIGAMI computer with heavy duty battery pack giving 4 hours continuous use combined with battery hot swap feature. The R-Scan is connected to the computer via the USB 2.0 port which can handle scanning speeds of up to 200mm/sec. The software has standard flaw detector



controls for the A-scan set-up, simplifying training and operation requirements. All controls such as gain, time base range, filtering and gate adjustments are on the same screen as the active A-scan display and the C-scan image. The easy to use defect sizing tools combined with cut and paste functions allow the export of defect images directly into other Windows software packages such as Word or Excel. These features turn the Z-Scan from a simple corrosion detection device into one of the most cost effective, comprehensive Ultrasonic C-scan Imaging Systems on the market today.

- **Battery operated**
- **Lightweight and portable**
- **Standard flaw detector controls**
- **Dry coupled dual 5 MHz wheel probe**



Technical Specification

| Scanner | | UT Module | |
|-----------------|---|------------|--------------------------------------|
| Dimensions | Length 164 mm Width 105 mm Height 58 mm Weight 560 g | Dimensions | 260 mm 160 mm 60 mm 1.8 kg |
| Wheel Probe | TWP25 5MHz Dry Coupled wheel probe | Battery | 7 hours operation from fully charged |
| Umbilical Cable | 2 metre | Charger | 1.5 hours fast charge from flat |