

## R-scan Lite

A manual B-scan imaging system for plate and pipework from 50mm diameter to flat

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

The R-scan Lite comprises three sections:

a) The manual, single axis encoded, scanner utilises a 5 MHz dual dry coupled wheel probe allowing B-scan ultrasonic imaging to be carried out without the need for traditional ultrasonic couplant. The scanner is suitable for both plate and pipe from 50mm 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 single 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 B-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 R-Scan from a simple corrosion detection device into one of the most cost effective, comprehensive Ultrasonic B-scan Imaging Systems on the market today.



Real time B-Scan image

- Battery operated
- Lightweight and portable
- Dry coupled dual 5 MHz wheel probe
- Scan pipe diameters from 50mm to flat



### Technical Specification

Scanner		UT Module	
Dimensions	Length 122 mm Width 65 mm Height 54 mm Weight 550 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