

A Manual Ultrasonic C-scan Imaging System

The ThetaScan is a Manual C-scan Ultrasonic Imaging System designed to carry out corrosion mapping on ferrous plate.

The ThetaScan's Scanner is a portable, hand operated scanner utilising the Silverwing UK Ltd TWP25 dry-coupled wheel probe.



Portable Ultrasonic Module

The battery powered Ultrasonic Module processes the UT and encoder information from the ThetaScan scanner. The Ultrasonic Module is supplied with a shoulder bag for site use. The Ultrasonic module will operate continuously for 7 hours from a fully charged battery.

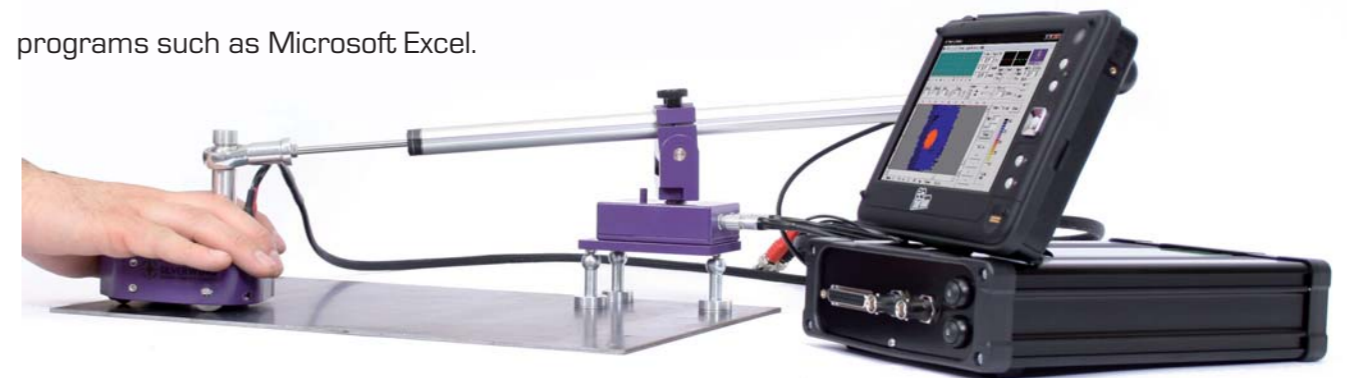


Magnetic wheels and magnetic feet hold the ThetaScan scanner to the inspection surface. The ThetaScan's scanner incorporates a dual axis encoder to provide positional information to the dedicated software. The ThetaScan scanner is connected to the Ultrasonic Module via the Umbilical cable.

The Ultrasonic Module is connected to the UMPC computer (supplied) via the lockable USB cable. The battery powered UMPC incorporates a touch screen for ease of use under site conditions.

ThetaScan Software

The ThetaScan software is optimised for the UMPC computer and has standard UT Flaw Detector controls, simplifying training and operation requirements. All controls such as Gain, Delay, Timebase 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 also allow the export of recorded C-Scan images directly into other Windows software packages such as Word or Excel using the cut and paste functions. Saved thickness measurements can also be exported as .csv files which can be handled using spreadsheet programs such as Microsoft Excel.



Technical Specification

Scanner		UT Module	
Dimensions	Length 110 mm Width 87 mm Height 50 mm	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	5 metre	Charger	1.5 hours fast charge from flat