

Scorpion B-Scan

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Remote access, Dry coupled
'B-scan' Ultrasonic crawler
developed by Silverwing (UK) Ltd.



The Scorpion B-scan is a rugged remote access ultrasonic crawler designed to allow cost effective A and B-scan imaging on above ground ferro-magnetic structures without the need for costly scaffolding or rope access.

The Scorpion remote access crawler uses a unique "Dry Coupled" wheel probe eliminating the need for traditional couplant. This allows the crawler to travel vertically, horizontally or even inverted whilst still fully functional.

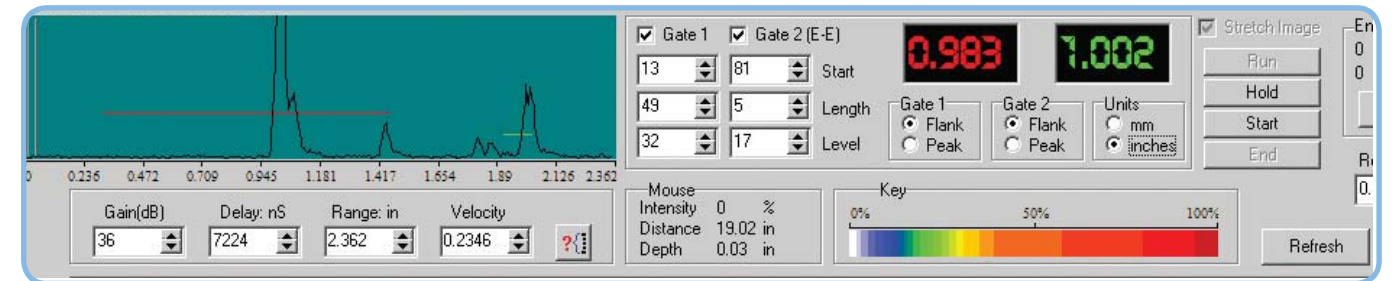
The digital Ultrasonic transmitter/receiver processes the UT signals from the dry coupled TWP12 dual wheel probe and combines the images with the encoder information. The Scorpion B-scan is connected to a Ultra Mobile Ruggedised PC (supplied) via the USB 2.0 port. The software has standard flaw detector 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.



Technical and Performance Specification

Dimensions	Length 385 mm x Width 222 mm x Height 102 mm
Weight without cables	4.75 Kg
Adhesion	Neodymium iron boron magnets mounted in centre of carriage
Pull off force	136 Kg
Drive	four (4) independent 12 volt Dc motors
Drive wheels	coated in special non-slip synthetic rubber compound
Speed	25 mm/second
Umbilical Cable	length 30 metre
Transducer	Dry coupled wheel using "Pro-Coe" rubber 5 Mhz dual / twin compression transducer
Near surface resolution	2.5 mm
Power supply	28 Ah sealed lead acid gel battery pack with integral charger
Test time	7 hours

- Battery operated
- Easy set-up and operation
- Standard flaw detector controls
- Dry coupled ultrasonic wheel probe



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 Scorpion B-scan from a simple corrosion detection device into one of the most cost effective, comprehensive remote access Ultrasonic Imaging Systems on the market today.

