

Pundit 250 Array

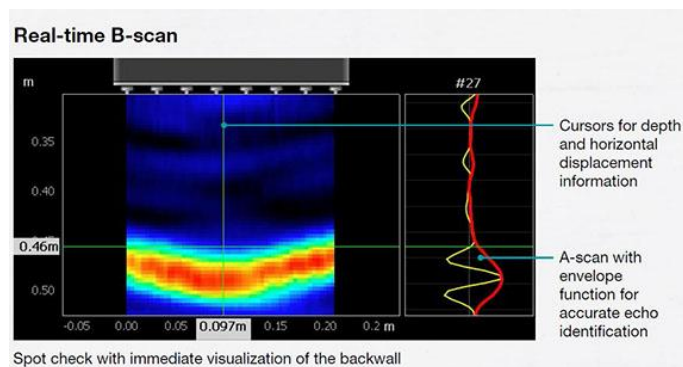
The Pundit 250 Array is the latest development in Ultrasonic Pulse Echo equipment from Proceq. This unit combines an 8 channel shear wave transducer array with the industry leading Pundit Touchscreen controller, the probe can also be upgraded to 16 channel by combining two transducer arrays. The Pundit 250 Array is available as a unit with touchscreen controller or as an upgrade to any Pundit PL unit.

Ultrasonic Pulse Echo Method

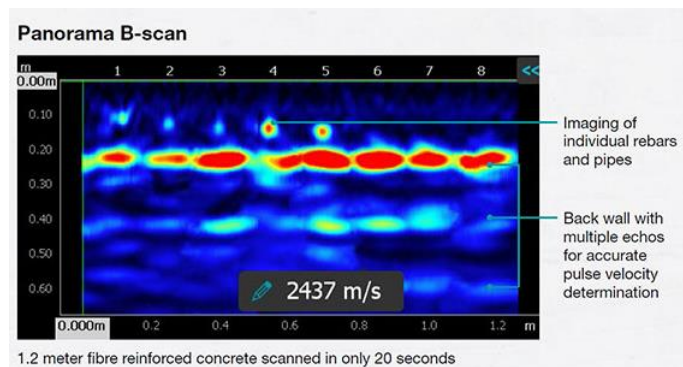
The Pulse Echo technology widely extends the application range of the Pundit Touchscreen Unit and offers a variety of special features.

Scan Modes

Real Time B-Scan



Panorama B-Scan



Other Compatible Pundit Sensors

The Pundit touchscreen is also compatible with the Single Channel UPE transducer and Proceq's range of Ultrasonic Pulse Velocity transducers, the links below discuss the relevant systems:

- Pundit PL 200 - Ultrasonic Pulse Velocity
- Pundit PL-200 PE – Single Channel Ultrasonic Pulse Echo



Applications

- Thickness measurement of elements up to approximately 1m
- Location of defect such as honeycombing, voiding and the depth and extent of concrete delamination.
- Detection of embedments such as pipes, tendon ducts beneath a layer of rebar
- Location of objects and defects in fibre reinforced concrete

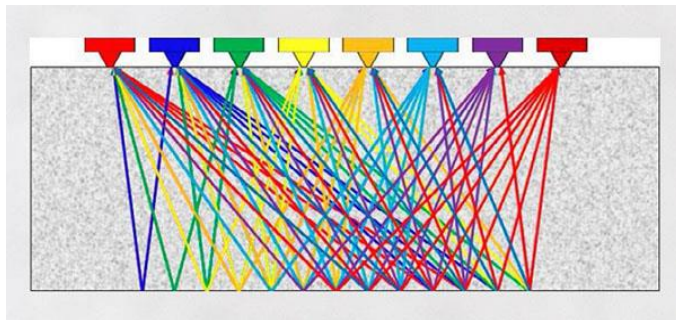
Features

- Durable ceramic contact points on dry contact transducers
- Superior near field performance [Detection of objects and embedments close to test subject's surface]
- Upgradeable to a 16 channel array with 2 probe units
- Single or double handle configurations
- System control buttons on handles and probe for quick single operator use
- Raw data export
- Real Time B Scan updates
- Extended B scan panoramas
- Automatic estimation of the Pulse Velocity or calibration to a known thickness

Pundit 250 Array

Transducer Specifications

The Pundit Array transducer is a rugged and lightweight 8 channel array of shear wave transducers. One channel will transmit a sonic pulse the remaining 7 receive, this measurement is repeated for each channel transmitting in turn. The 56 A-Scan signals are mapped using Synthetic Aperture into a B-Scan Image like the examples above, showing information on changes in material such as the back surface of a slab, embedments or defects internal to it.



Form Supplied

Pundit 250 Array

- Pundit Touchscreen
- Pundit Array Transducer
- Pundit 250 Array Software
- Pundit Array cable, 12 pin 1.5 m
- Pundit Array Contact Tester
- Rechargeable batteries, power supply
- USB cable
- Calibrated tape, DVD with software
- Documentation
- Carrying Strap and Carry Case

Upgrade Kit to 250 Array

- Pundit Array Transducer
- Pundit 250 Array Software
- Pundit Array cable, 12 pin 1.5 m
- Pundit Array Contact Tester
- Rechargeable Batteries
- Calibrated tape, DVD with software, documentation
- Carry Case

Accessories

- Pundit array transducer battery pack complete
- Rechargeable batteries
- Calibrated tape [5 pack]

Technical Specifications

Pundit Array Transducer

Gain	0 to 80 dB
Analog bandwidth	15 to 100 kHz
Nominal transducer frequency	50 kHz shear wave
Range / resolution	0 to 1000 us / 1 us
Pulse voltage	± 150 V
Pulse shape	Square wave
Pulse delay	8 to 200 ms
Number of channels	8 [Upgrade to 16]
Battery lifetime	> 7 hours
Dimensions (mm)	240 x 273 x 153
Weight	3 kg approx.

Pundit Touchscreen

Display	7 " colour display, 800 x 480 pixels
Memory	Internal 8 GB flash memory
Regional settings	Metric and imperial units, multi language
Power input	12 V ± 25 % / 1.5 A
Battery	3.6 V, 14 Ah
Battery lifetime	> 8 hours
Humidity	<95 % RH, non condensing
Operating temperature	-10 to + 50 °C
IP Classification	IP 54
Dimensions	250 x 162 x 62 mm
Weight	1.5 kg approx

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.