

Pundit® Live Array Pro

Pulse echo testing with A.I.

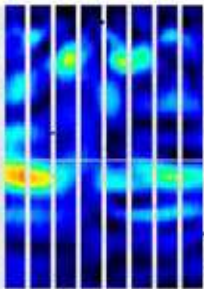




Pundit Live Array Pro – making pulse echo testing simpler and faster with Artificial Intelligence (A.I.)

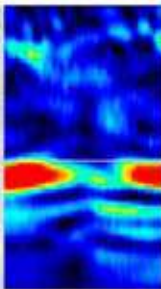
Pundit Live Array Pro wireless tomography scanner is perfect for thickness measurements, localization of defects and detection of objects in concrete and fibre reinforced concrete. Pundit Live Array Pro will support your work with intelligent back wall detection, smart positioning and automated pulse velocity estimation.

Single channel



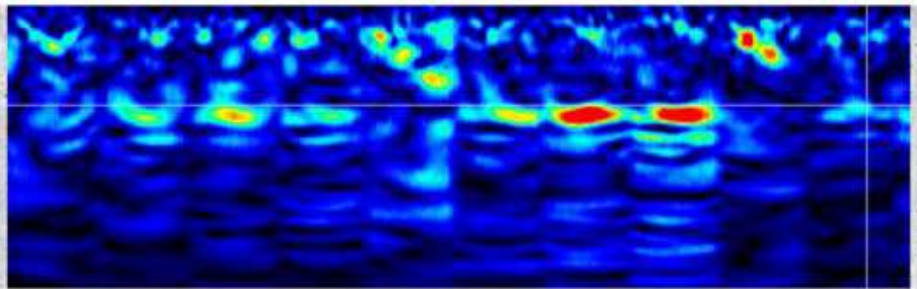
Time consuming
single scans

Fixed array



No stitching

New: Pundit Live Array Pro



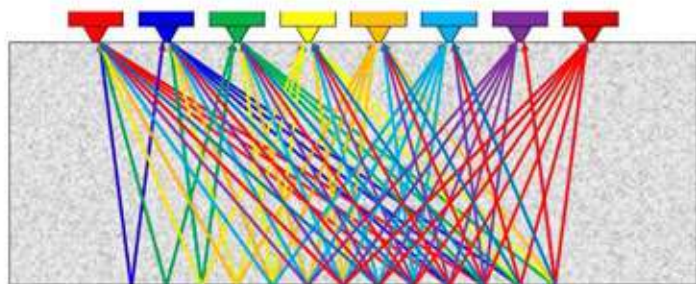
Real-time imaging with seamless stitching



Accurate stitching thanks to latest A.I. supported pattern recognition technologies

Fix the Proceq Live tape measure to the object you need to inspect. Scan wherever you want along the tape and get a perfectly stitched scan! Even if you realize you didn't scan a spot, (shown as blank in the stitched scan) just go back and scan at that location and it will be placed correctly into the stitched scan. The Proceq smart positioning system uses a sensitive, fast CMOS imaging sensor and pattern recognition technologies to detect the position in real-time.





8 channel pulse echo measuring head principle

High-resolution multichannel pulse echo technology

With the 8 channel Pundit Live Array Pro measurement head, one channel transmits the ultrasonic signal and the echoes are received by the other seven channels. Each channel transmits in turn. A complete measurement consists of 28 A-scans. These are used to compute and display a B-scan in real-time using the Synthetic Aperture Focusing Technique (SAFT). Coupling two transducers results in a 16 channel aperture processing a total of 240 A-scans per measurement cycle.



Photo courtesy of Pundit Array Pro, 100% software based, 100% IP54, 100% IP67, 100% IP68, 100% IP69K

Technical specifications

Measuring range	>1 m depending on concrete quality
Bandwidth	15 to 100 kHz
Technology	Phased array ultrasonic pulse echo
Measuring resolution	1 µs
Pulse Voltage UPE	±150 V
Receiver gain	1 to 10'000x (0 to 80 dB)
Nominal transducer frequency	50 kHz shear wave
Pulse shape	Square wave
Pulse delay	8 ms – 200 ms
Number of channels	8 (with upgrade option to 16)

Unmatched connectivity

Digital reporting, data sharing and back-up are possible directly from the Pundit Live app and through highly secure cloud services. The unique Logbook feature records the key parameters associated with each and every test including settings, time stamps, photos, site notes and geolocation. Reports can be sent directly from the iPad on-site. The Pundit Live app is intuitive and simple to use. The user interface offers many different live view settings that help to optimize on-site data acquisition and evaluation.

Measuring modes

- Area scan (on-site 3D)
- Line scan

Review modes

- Line scan
- Time-slice view

Intelligent back wall detection and smart tagging

Pundit Live Array Pro can automatically detect the back wall using smart imaging algorithms, facilitating the interpretation of scans. In addition, the user can place object tags for defects and rebars to facilitate the communication of scan results.



Transducer weight	~3 kg
Dimensions	240 x 273 x 153 mm / 94.5 x 107.5 x 60.2 in
Display	Any iPad
Humidity	<95% RH, non-condensing
IP classification	IP54
Regional settings	Metric and imperial units and multi-language and timezone supported
Guidelines	ACI 228.2R-13, RI-ZFP-TU
Operating temperature	-10 to 50 °C / 14 to 122 °F

Ordering information



Pundit Live Array Pro wirelessly connected to an iPad

Pundit Live Array Pro

327 30 150	Pundit Live Array Pro
327 30 160	Pundit Live Array Pro – initial rental fee (24 months)
327 30 162	Pundit Live Array Pro – subsequent yearly rental fee
327 30 170	Upgrade Kit – Pundit 250 Array to Pundit Live Array Pro

Accessories

327 30 370	Dual handle kit
327 30 140	Pundit Array 16 channel upgrade kit
327 30 418S	Pundit Live tape measure (set of 10)
327 30 384S	Rechargeable AA NiMH battery (Set of 6)

Service and warranty information

Proceq is committed to providing complete support for each testing instrument by means of our global service and support facilities. Furthermore, each instrument is backed by the standard Proceq 2-year warranty and extended warranty options for electronic components.

Standard warranty

- Electronic components of the instrument: 24 months
- Mechanical components of the instrument: 6 months

Extended warranty

When acquiring a new instrument, max. 3 additional warranty years can be purchased for the electronic portion of the instrument. The additional warranty must be requested at time of purchase or within 90 days of purchase.



Pundit Live Array Pro with standard handle, optional dual handle kit and with optional 16 channel upgrade kit



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