

Structural Imager | PD8050

Consolidated power in a single device for structural imaging, object and defect detection with ultrasound pulse echo in concrete structures.



Efficiency

Have the power of the Pundit 200 PE, Pundit 250 Array and PD8000 with a single device. Enhanced wireless inspections with on-site, 2D, heatmap and high-resolution 3D imaging.



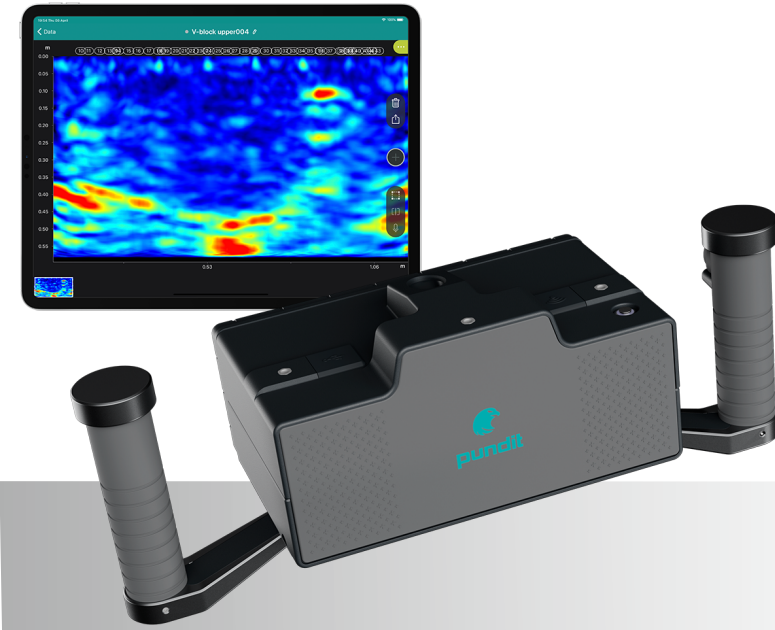
Innovation

Experience the lightest, yet most intelligent pulse echo structural imaging device available on the market. Powered by ever-evolving software with AI and AR, to expand your inspection capabilities.



Productivity

Unbeatable productivity ensured by AI assisted positioning and data interpretation, real-time feedback of probe controls, immediate data visualization and easy report creation.



Proceq Pundit PD050 **UPV Tester** is a new generation **Ultrasonic pulse echo tester** used for **structural imaging, object, and defect detection** with ultrasound pulse echo technology. Enabled with **Artificial Intelligence (A.I) support and 3D visualization capabilities** make it the fastest solution for the user to assess concrete structures and detect defects faster and easier than ever before.

The PD050 **pundit ultrasonic tester** comes with multiple review modes including A scan, B Scan, Time Slice view & heat map to deliver best on-site imaging .

The **Ultrasonic pulse velocity test equipment** allows **detection of voids, honeycombs, and delamination** below the rebar grid even in dense rebar structure as ultrasonic pulse echo signal is only partially reflected than a GPR signal.

The World's Lightest Wireless Ultrasonic Imaging System with **Augmented Reality and AI Capabilities** allow inspections with on-site, 2D, heatmap and high-resolution 3D imaging effortlessly precise & clear.

The **UPV test equipment** helps in locating and identifying underground steel fibre reinforced concrete, unlike electromagnetic methods (such as GPR) which do not work on steel fibre reinforced concrete, ultrasonic pulse echo is well suited for detecting voids, detecting cover depth to rebars and pipes .

The **Ultrasonic concrete tester** offers data storage & instant report generation; It allows raw data export & easy sharing via url.

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Features :

- Real-time imaging, weight optimization and AI assistance
- Large scale 2D, 3D, heatmap and AR visualization modes
- Superior image clarity with control of all transmission parameter

Specifications :

Software / Workspace App	
Display Unit	Any compatible Apple® iPad (iOS 11.0 and higher)
Workspace Integration	App synchronization Share via URL Automatic logbook Raw data export HTML export Instant report generation
Special Features	High definition focus view Macro view – variable frequency and voltage Wide panoramic B-scan Augmented Reality 3D view AI-assisted positioning AI-assisted feature interpretation Image stabilizer
Display Unit Specs	Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Down to 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide Optional: USB-C, 5G, Face ID
Display Unit Sensors	Built-in GPS/GNSS Three-axis gyro Accelerometer Ambient light sensor Barometer LiDAR Scanner (optional)
Sensor	
Applications	Void and delamination detection Bonding assessment Thickness measurement Honeycombing detection Fiber concrete Concrete hit prevention Imaging of closely spaced rebars
Bandwidth	20 - 80 kHz
Technology	Multi-channel Ultrasonic Pulse Echo
Measuring Resolution	0.1 us
Pulse Voltage	±50 to ±150 V (UPE)
Receiver Gain	1 to 10'000 (0 to 80 dB)
Report Generation	Cloud synchronization Share via URL Cloud-enabled logbook Cloud-based raw data export Cloud-based HTML export Cloud-based report generation
Measurement Modes	Line scan Stripe Scan Grid Scan (Coming soon)
Measuring Range	Up to 2 m / 6.6 ft depending on concrete quality
Review modes	A-scan (incl. envelope) B-scan (Line view) C-scan (Time-Slice view) Heat map (depth) Heat map (pulse velocity)
Battery	Battery pack, 6x AA (NiMH), flight-safe
Display	Any compatible Apple® iPad (iOS 11.0 and higher)
Memory	Apple® iPad specified
Connections	Encrypted Wi-Fi connection to Apple® iOS tablet USB port for Wi-Fi module USB-C for Wi-Fi restricted areas

