

## Pundit Ultrasonic **PD8050**

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

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### **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



## Pundit Array Tech Specs

|  |   |
|--|---|
| <b>Display Unit</b>                      | Any compatible Apple® iPad (iOS 11.0 and higher) <sup>1</sup>   |
| <b>Measurement Modes</b>                 | Line scan<br>Stripe Scan<br>Grid Scan   |
| <b>Review modes</b>                      | A-scan (incl. envelope)<br>B-scan (Line view)<br>C-scan (Time-Slice view)<br>Heat map (depth)<br>Heat map (pulse velocity)  |
| <b>Report Generation</b>                 | Cloud synchronization<br>Share via URL<br>Cloud-enabled logbook<br>Cloud-based raw data export<br>Cloud-based HTML export<br>Cloud-based report generation  |
| <b>Workspace Integration</b>             | App synchronization<br>Share via URL<br>Automatic logbook<br>Raw data export<br>HTML export<br>Instant report generation  |
| <b>Special Features</b>                  | High definition focus view<br>Macro view – variable frequency and voltage<br>Wide panoramic B-scan<br>Augmented Reality<br>3D view<br>AI-assisted positioning<br>AI-assisted feature interpretation<br>Image stabilizer |
| <b>Display Unit Specs<sup>2</sup>:</b>   | Screen size: From 7.9" to 12.9"<br>Resolution: Up to 2732-by-2048<br>Memory: Up to 2TB<br>Weight: Down to 301 g / 10.6 oz<br>Camera: Up to 12MP Wide and 10MP Ultra Wide<br>Optional: USB-C, 5G, Face ID                |
| <b>Display Unit Sensors<sup>3</sup>:</b> | LiDAR Scanner (optional)<br>Three-axis gyro<br>Accelerometer<br>Ambient light sensor<br>Barometer<br>Built-in GPS/GNSS  |

1. Recommendation: The newest models enhance performance, number of sensors and optional capabilities.

2, 3. Depending on iPad model








## Instrument Tech Specs

|                             |   |
|-----------------------------|---|
| <b>Applications</b>         | Void and delamination detection<br>Bonding assessment<br>Thickness measurement<br>Honeycombing detection<br>Fiber concrete<br>Concrete hit prevention<br>Imaging of closely spaced rebars |
| <b>Bandwidth</b>            | 20 - 80 kHz   |
| <b>Technology</b>           | Multi-channel Ultrasonic Pulse Echo   |
| <b>Measuring Resolution</b> | 0.1 us  |
| <b>Pulse Voltage</b>        | ±50 to ±150 V (UPE)   |
| <b>Receiver Gain</b>        | 1 to 10'000 (0 to 80 dB)  |
| <b>Measuring Range</b>      | Up to 2 m / 6.6 ft depending on concrete quality  |
| <b>Battery</b>              | Battery pack, 6x AA (NiMH), flight-safe   |
| <b>Display</b>              | Any compatible Apple® iPad (iOS 11.0 and higher) <sup>1</sup>   |
| <b>Memory</b>               | Apple® iPad specified   |
| <b>Connections</b>          | Encrypted Wi-Fi connection to Apple® iOS tablet<br>USB port for Wi-Fi module<br>USB-C for Wi-Fi restricted areas  |



## Our Accessories

| Image   | PartNumber | Description  |
|---|------------|--|
|  | 32540434   | 16 channel connection kit (32540434)   |
|  | 32730418S  | Measurement accessory (32730418S) Pundit Live tape measure (set of 10)                   |
|  | 79330235   | Universal tablet holder for direct mounting on Proceq GPR 8000/8100 and Pundit PD8050... |
|  | 79330345   | Chest harness kit for hands free operation of all iPad app based instruments:...         |
|  | 91011110   | Durable carry strap  |

| Standards & Guidelines   | Description |
|--------------------------|-------------|
| EN12504-4, EN13791       |             |
| ACI 228.2R-13            |             |
| DGZfP Merkblatt B4       |             |
| RI-ZFP-TU                |             |
| ZTV-ING Teil 5 Tunnelbau |             |

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