



## **Pundit Ultrasonic**

# **PD8050**

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



# **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 Al and AR, to expand your inspection capabilities



## **Productivity**

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



Measurement Modes  Line scan Stripe Scan Grid Scan  A-scan (incl. envelope) B-scan (Line view)  C-scan (Time-Slice view) Heat map (depth) Heat map (pulse velocity)  Cloud synchronization Share via URL
B-scan (Line view)  C-scan (Time-Slice view) Heat map (depth) Heat map (pulse velocity)  Cloud synchronization
•
Report Generation  Cloud-enabled logbook Cloud-based raw data export Cloud-based HTML export Cloud-based report generation
Workspace Integration  Share via URL  Automatic logbook  Raw data export  HTML export  Instant report generation
High definition focus view Macro view – variable frequency and voltage Wide panoramic B-scan Augmented Reality 3D view Al-assisted positioning Al-assisted feature interpretation Image stabilizer
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 Sensors3:  LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS  1. Recommendation: The powest models enhance performance

- 1. Recommendation: The newest models enhance performance, number of sensors and optional capabilities.
- 2, 3. Depending on iPad model





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

## **Our Accessories**

Image	PartNumber	Description
<b></b>	32540434	16 channel connection kit (32540434)
	327304185	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
B	79330345	Chest harness kit for hands free operation of all iPad app based instruments:
P	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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