i.Pile™

Wireless Pile Integrity Tester

f'c SOLUTIONS

Innovative NDT Solutions

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About i.Pile

i.Pile™ provides an industry-standard quality built wireless device for low strain impact integrity testing of deep foundations and piles. i.Pile™ can be used to expose potentially dangerous defects such as major cracks, necking, soil inclusions or voids in slender piles. Moreover, i.Pile™ can be used for determining unknown length of piles. i.Pile™ meets the requirements of ASTM D5882.

Applications

- Evaluate unknown length of piles, or elements
- Evaluate pile cross-sectional area and length
- Determining the integrity & continuity of piles
- Evaluate consistency of pile material

Features

- High Precision Low Noise Acceleration Sensor
- Bluetooth Connectivity
- Powerful Data Recording Unit
- Powerful and Up to Date Mobile App
- +10 hours of Battery Life
- Meets requirements of ASTM D5882

i.Pile™ | Wireless Sensor

i.Pile™ uses enhanced Bluetooth communication for transmitting acceleration data from the sensor to a mobile-based tablet. All you need to do is to place the i.Pile™ sensor over the pile head, hit the head by the hand-held hammer, and record and display acceleration data on the tablet.

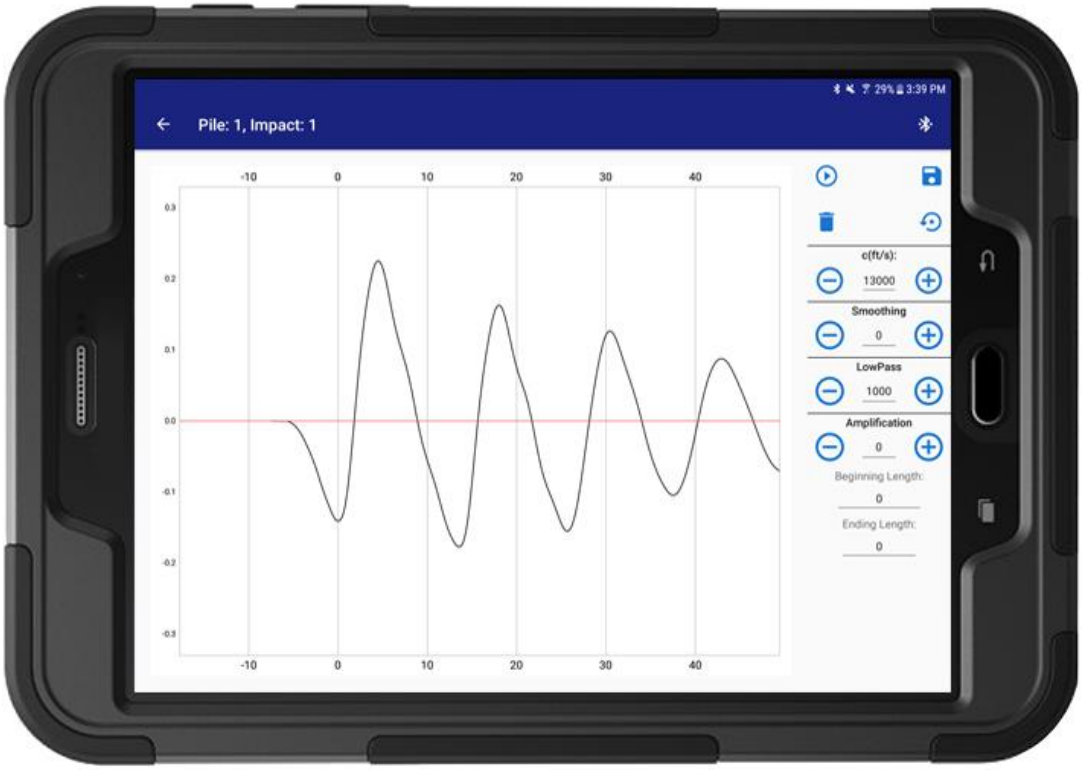
i.Pile™ is equipped with innovative low voltage acceleration sensor that helps reduce ambient noise, and record acceleration data with high precision.

Technical Specs

Acceleration Range	±50 g
Frequency Range	(±3db): 0.5 – 15000 Hz
Resonant Frequency	> 31 kHz
Sampling Frequency	40 kHz
Sampling Resolution	> 12 bit
Low cut-off frequency	5000 Hz (-3db)
Temperature Range-Storage	-20 to 65 ºC
Connectivity	BLE 4.0
Internal Battery Life Time	+10 hours
i.Pile Sensor Dimensions	52 mm (D) x 108 mm (H)
i.Pile Sensor Weight	(±3db): 0.5 – 15000 Hz

i.Pile™ | Rugged Tablet + Mobile App

With 1.8 Ghz processing speed, and 3 Gb of RAM, you have all the processing power you need at your fingertips. i.Pile™ comes with a powerful and user-friendly app for data recording and analysis. Dynamic data visualization, and pile length measurement helps you obtain crucial information about pile integrity right on site.



Technical Specs

Tablet Dimensions (rugged)	215 mm x 151 mm x 15 mm
Tablet Weight (rugged)	300 gr
Processor	1.8 GHz Octa Core
Memory / RAM	32 GB / 3.0 GB
Connectivity	Wi-Fi / BLE 4
Battery	4,000 mAh

How i.Pile™ Works?

Pile integrity testing has never been easier. Turn on the i.Pile™ sensor, and your tablet. Use the user-friendly app to connect to the sensor, and start collecting test results. It is that easy.

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