Pile Dynamics, Inc.
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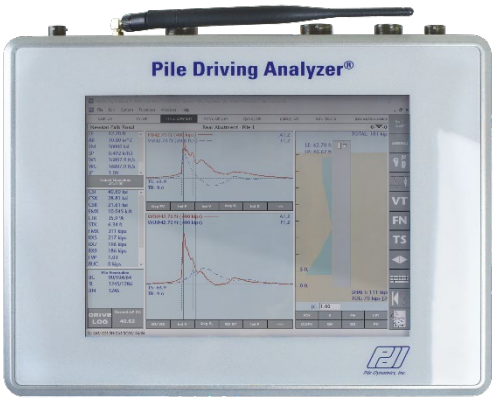
Technical Specifications

# Pile Driving Analyzer® (PDA-8G)

## Physical




**Size:**

- 320 X 250 X 68 mm (12.6 x 9.8 x 2.7 in)

**Weight:**

- 5 Kg (11 lbs.)

**Temperature Range:**

- 0 to 40°C (32 to 104° F) operating; -20 to 65°C (-4 to 149° F) storage

**Display:**

- 26.4cm (10.4”), sunlight readable, resolution 1024 X 768
  Built in capacitive touch screen

**Video Outputs:**

- HDMI

**Power:**

- 4-hour continuous data collection battery pack, 12 VDC car battery, or 100-240 VAC.
- Extra battery pack supplied

**Charging Time:**

- 6-hour maximum

* The PDA-8G is patented under the Remote Pile Driving Analyzer US Patent No. US 6301551 B1

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# Technical Specifications

## Electronic

- Microsoft Windows® 10 or higher Operating System
- Minimum of 128 GB SSD internal drive
- Ethernet port
- 4 USB ports
- Analog signal conditioning filtering (frequency response) 2.5 KHZ (-3 dB)
- 16-bit A/D converter with sampling frequency of 10.24 MHz
- 8 channels with effective digitizing frequency of 10 KHz to 40 KHz selectable
- 1K, 2K, or 4K data record sizes available
- Basic unit accuracy 2%

## Functional

- Built in calibration test function
- Compatible with PDI Smart Sensors
- Wireless range up to 100 m (328 ft)
- Up to 16 universal (strain or acceleration, piezoelectric or piezoresistive) channels of wireless data acquisition[1]
- Up to 8 universal (strain or acceleration, piezoelectric or piezoresistive) channels of traditional data acquisition
- Piezoresistive accelerometer for high frequency and high acceleration events such as SPT, or steel on steel impacts
- Piezoelectric accelerometers are more cost effective and useful in most other pile driving applications
- Automatic balancing of signals and signal conditioning
- Digital (software) integration of acceleration
- Signal conditioning for force and acceleration have similar frequency response
- Internal calibration check of strain and acceleration
- Signal amplification capability
- Triggers on any attached strain transducer or accelerometer
- User adjustable pre-trigger buffer size
- High speed internet data transmission using SiteLink® Technology through broadband phone or other network device (additional desktop sharing software needed)

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- Data transmission through data capable mobile phone connected via USB

[1] limited to one piezoelectric accelerometer per box

## Other

- Operates in English, SI, or Metric units
- Includes external USB keyboard, mouse, and WiFi (802.11 b,g,n)
- Includes both soft side carry-on luggage case and hard transit case
- Equipped for remote technical support using SiteLink® Technology
- Available TeamViewer desktop sharing software license for use with SiteLink Technology
- Furnished with licenses for PDA Software Suite (PDA-S, iCAP®, PDIPLOT and PDI Curves), GRLWEAP and CAPWAP®
- Full one-year warranty
- Technical manual provided in PDF form on a USB drive

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