



Pile Dynamics, Inc.  
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## Technical Specifications

# Pile Integrity Tester (PIT-QV & PIT-QFV) Specifications

## Physical

### Size

272 X 212 X 60 mm (10.7 x 8.3 x 2.4 in)

### Weight

2.04 Kg (4.5 lbs)

Sunlight readable VGA color display for any lighting conditions, resolution 800 x 600 pixels

### Screen size

21.3 cm (8.4")

### Temperature Range

Operating: -20 to 40° C (-4 to 104° F);

Storage: -30 to 65° C (-22 to 149° F)

Powered by Internal Battery (10-hour duration)



## Electronic

### Data Storage

Built in 256 GB drive minimum

USB port for data retrieval

24-bit A/D converter

### Analog Signal Frequency response

22 KHz. (-3dB)

Sampling Digitizing frequency of > 1 MHz

Sampling Frequency accuracy within 0.01%

Sampling speeds of 50 KHz, 75 KHz, and 150 KHz.

Windows 10 or higher Operating System

## Functional

- One (PIT-QV) or two (PIT-QFV) channels of acceleration data acquisition
- One (PIT-QV) or two (PIT-QFV) integrators of acceleration to velocity
- PIT-QV accepts data from one traditional accelerometer
- PIT-QFV accepts data from two traditional accelerometers or from one traditional accelerometer and one traditional instrumented hammer
- Input of names and descriptions for each pile tested
- Date and time stamps
- Signal amplification capability, variable over time
- Available record sizes: 1K, 2K, and 4K
- Data can be averaged over a variable number of blows
- FFT (Fast Fourier Transform) feature

## Other

- Includes licenses of PIT-W Standard and PIT-S
- Full one-year warranty
- Operates in English, SI or Metric units
- Technical manual provided in PDF form on a USB drive