



*Pile Dynamics, Inc.*

**Quality Assurance for Deep Foundations**

## **Pile Integrity Tester PIT-QV and PIT-QFV Specifications** April 2016

### **Physical:**

Size: 272 X 212 X 60 mm

Weight: 2.04 Kg

Sunlight readable VGA color display for any lighting conditions, resolution 640 x 480 pixels

Screen size: 21.3 cm (8.4")

Temperature Range: Operating: -20 to 40° C; Storage: -30 to 65° C

Powered by Internal Battery (10 hours duration)

### **Electronic**

Data Storage: Built in 32 GB drive

USB port for data retrieval

24 bit A/D converter

Analog Signal Frequency response: 22 KHz (-3dB)

Sampling Digitizing frequency of > 1 MHz (net frequency after DSP > 32 KHz)

Sampling Frequency accuracy within 0.01%

Sampling speed of 32 KHz – 150 KHz

Windows 10 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

Capability of measuring and reproducing signals of duration between 2 and 30 ms

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

Soft carrying case

Full one-year warranty

Operates in English or Metric units

Technical manual included