



## ***CHAMP-XV Specifications***

September 2015

### **Main Unit**

#### **Physical:**

Size: 320 X 250 X 68 mm (12.6 X 9.8 X 2.7 inches)

Weight: 5 kg (11 lbs.)

Display: 26.4 cm (10.4 inch) sunlight readable touch screen display, resolution 1024 X 768

Operating temperature range: 0° – 40° C

Power: 4 hour continuous data collection with internal 12V battery, or 100 – 240 VAC power supply

Charging Time: 6 Hours max.

#### **Electronic:**

Computer with 60 GB SSD internal drive and 4 external USB ports

12 bit analog to digital (A/D) converter

Sampling rate: 500 kHz, 1 MHz and 2 MHz, user selectable (equivalent measuring accuracy 2 $\mu$ s, 1 $\mu$ s and 0.5 $\mu$ s)

Scan rate: 32 scans/seconds

Record size: 250, 500 and 1000 points, user selectable

User adjustable gain, trigger level and transmit power level

#### **Other:**

Windows® 7 OS

Operates in English or SI Units

Furnished with CHA-W software

Full one year warranty

Technical manual included

### **Probes**

#### **Physical:**

Size: 215 mm length x 25 mm diameter

Element: ceramic

Housing: nickel plated brass

Independent depth encoder for each probe

Maximum measuring distance (probe separation): 3m

#### **Electronic:**

Receiver: tuned to 45 KHz nominal

Transmitter frequency (nominal): 45 KHz

Transmitter voltage: 200, 400, 600 or 800 Volts (user selectable)

### **Cables**

Cable material: heavy duty polyurethane outer jacket

Cable length: 60, 100 or 150 m

Cables spooled over tripod (standard) or with optional Motorized Probe Deployment System (60 m only)



**Quality Assurance for Deep Foundations**

## **Motorized Probe Deployment System**

### **Main Unit**

Size: Two 380mm X 480mm X 405mm spools  
Weight: 11.3Kg each  
Includes 60 m cable, detachable from spool  
Includes depth encoder for each probe, attached to frame

### **Motor Control Unit**

Size: 240mm X 160mm X 90mm  
Weight: 1.6 Kg  
Powered by either external battery (8 hours duration), 12VDC car battery, or 100 – 240 VAC with 12VDC converter  
Fast charger to recharge the external battery in 4 hours  
Variable probe pull rate: 0.150 to 0.915 m/sec (low, medium, high speed selection)  
Resettable circuit breaker motor protection  
Operating temperature range: 0° to 40°C  
Storage temperature range: -10° to 65°C

### **Other**

Includes pulley for placement at the tube  
Includes roller guide for routing cable through re-enforcement rebar cage or over casing