



Pile Dynamics, Inc.
www.pile.com • 1.216.831.6131

Technical Specifications

Cross Hole Analyzer (CHAMP-Q)

MAIN UNIT

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:

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

Video Outputs:

- HDMI

Power:

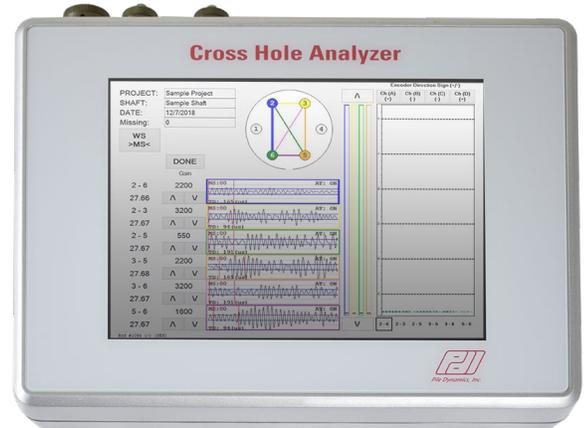
- 4-hour continuous data collection with internal 12V battery

Charging Time:

6-hour maximum

Electronic

- Microsoft Windows® 10 or higher Operating System
- Minimum of 128 GB SSD internal drive
- Ethernet port
- 4 USB ports
- 12-bit analog to digital (A/D) converter





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Sampling Rate:

- 500 kHz, 1 MHz and 2 MHz; user selectable (equivalent measuring accuracy 2 μ s, 1 μ s and 0.5 μ s)

Scan Rate:

- 32 scans/seconds

Record Size:

- 250, 500 and 1000 points; user selectable
- User adjustable gain

Other

- Operates in English, SI or Metric Units
- Furnished with CHA-W software
- Full one-year warranty
- Technical manual provided in PDF form on a USB Drive

PROBES

Physical

Size:

- 245 mm length x 25.4 mm diameter (9.5 in length x .1 in diameter)

Element:

- Ceramic

Housing:

- Nickel plated brass
- Independent depth encoder for each probe



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- **Maximum measuring distance (probe separation)**
3 m (9.8 ft)

Electronic

- Pressure tested to 175 m (575ft)

Receiver:

- Tuned to 45 KHz nominal

Transmitter Frequency (nominal):

- 45 KHz

Transmitter Voltage:

- 800 volts





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Technical Specifications

CABLES

Cable Material:

- Heavy duty polyurethane outer jacket

Cable Length:

- 60, 100 or 150 m (196, 328, 492 ft)
- Cables spooled over tripod (standard) or with the pile encoder

