



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

Technical Specifications

Shaft Area Profile Evaluator for Dry Holes (SHAPE[®] AIR) Specifications

SHAPE AIR Sensor Unit

Size

723 x 254 mm (28.5 x 10 in)

Weight

20.8 Kg (46 lbs.)

Material

Stainless Steel, Aluminum and PVC

Temperature Range

Operating -20° to 55°C (-4° to 131° F); Storage -40° to +85° C (-40° to 185° F)

Power

1.75 hours of continuous usage with external 12V battery
8 – LIDAR Stereo Depth Cameras
1 – Laser Distance Sensor
1 – Inertial Measurement Unit (IMU)
1 – High-precision Fluxgate Magnetometer
Radial Measurement Accuracy down to 1.58 mm (0.0625 in)

Main Unit

Size

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

Weight

5 Kg (11 lbs.)

Temperature range

Operating 0° to 40°C (32° to 104° F); Storage: -20° to 65°C (-4° to 149° F)





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Display

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

Video Outputs

HDMI

Battery Power

4-hour continuous data collection 12V battery +
back-up battery standard

Charging time

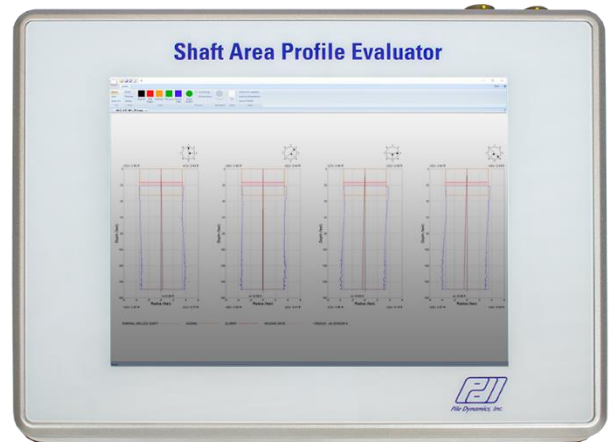
6-hour max; 120/240 charger input voltage

Operating System

Microsoft Windows® 10 or higher IoT Enterprise
LTSC

Data storage and ports

256 GB or larger SSD internal drive; Ethernet port; 4 USB ports



Shaft Criteria

Minimum Shaft Diameter

51 cm (20 in)

Maximum Shaft Diameter

6 m (20 ft)

Maximum Shaft Length

150 m (492 ft)

Other

Data Collection in Dry Holes Only
Units of operation: English, SI, or Metric
Full one-year warranty on parts and labor
Technical manual provided in PDF form on a USB