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)
Technical Specifications

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