EarthScienceSystems

ESSential Underground Information

Pavement Scanner

Density and Temperature

ESS Pavement Scanner with radar and infrared sensors. Measures asphalt compaction and density without nuclear sources. Produce maps of density and temperature that reflect uniformity.

The **ESS Pavement Scanner** measures asphalt pavement density using advanced radar technology without using nuclear sources. The radar sensor continuously scans the surface to produce compaction or density maps. Additionally, an integrated temperature sensor generates pavement temperature maps. Temperature differences indicate locations where the asphalt mix is not uniform, such as too little binder, different aggregate, etc.

Maps of compaction and temperature provide a measure of uniformity that cannot be obtained from spot measurements from traditional density gauges. These maps in turn enable better Q/A and Q/C, and ultimately reduced costs.

Costs and risks associated nuclear sources are eliminated.
No more nuclear safety training classes. No more source licensing headaches.

Earth Science Systems, LLC – 11485 W. I-70 Frontage Rd. – Wheat Ridge, CO – USA
www.earthsciencesystems.com – Tel: 303-800-2000

Pavement Scanner

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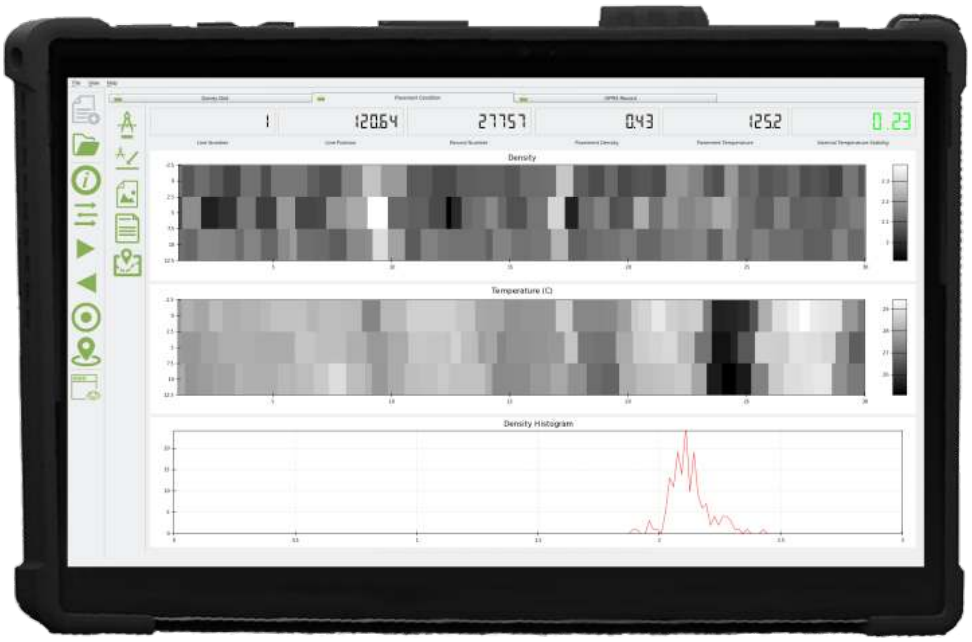
Real-time, Continuous, Pavement Density and Temperature Measurement



Advanced Software
Creates compaction and temperature maps, as well as density histograms.

Rich Reporting
Create Microsoft Word, PDF and image output with overlays on Google Maps satellite imagery.

Powerful Tablet
The included Microsoft Surface Pro enables analysis and reporting in the field. No second computer necessary.

No Cables in Operation
No cables to get frayed, and no damaged or dirty connectors to replace.

Easy Setup
Disassembles into three pieces for easy storage in shipping case.

Easy Charging
The shipping case's integrated charger can charge all system components simultaneously.

Specifications

- 2 GHz bi-static radar antenna
- Non-contacting IR temperature sensor
- Microsoft Surface Pro tablet computer included
- Wireless odometer
- WiFi-interfaced for completely cable-less operation
- Durable construction with IP65 ingress protection

- Positioning sensors:
  Odometer, GPS, and optional inertial measurements
- Calibrate from core measurements in-lab or in-field
- Rechargeable 4400mAh LiFePO4 battery with up to 6 hours continuous operation
- Two batteries with dual charger for all day use

- Shipping dimensions:
  36 x 28 x 20 inches (91.4 x 71.1 x 50.8 cm)
  99 lbs. (45 kg)

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