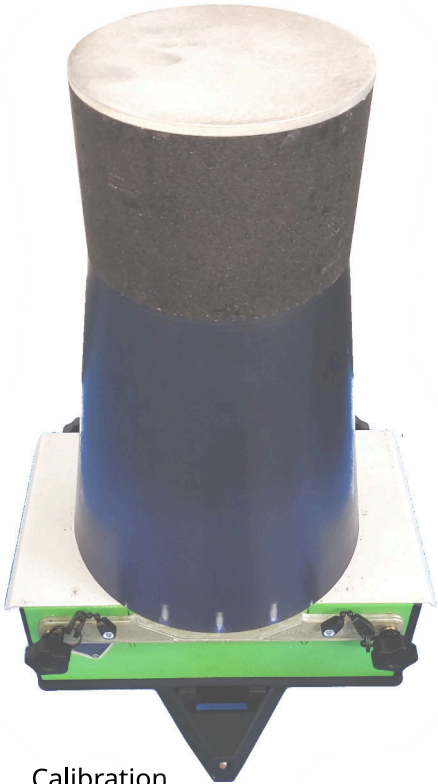


Earth Science Systems

ESSential Underground Information

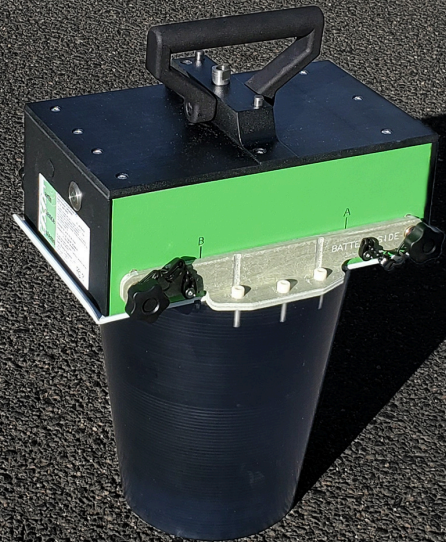
Gyratory
puck



Calibration
pedestal

Asphalt Density Gauge

The **Asphalt Density Gauge** measures asphalt density, compaction, and dielectric constant without nuclear sources.



The **Asphalt Density Gauge** measures the pavement's dielectric constant using advanced radar technology. Compaction and density are calculated from the dielectric constant using a specific calibration for each asphalt mix (similar to a Rice value calibration).

The laboratory grade mix calibration can be determined using a series of gyratory compactor pucks. A less accurate field grade calibration can be determined by extracting a small number of cores.

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

Can be combined with a push cart (**Asphalt Pavement Scanner**) to create continuous density maps.

Asphalt Density Gauge

Pavement Density and Compaction Gauge

EarthScienceSystems
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Advanced Software

Manages compaction puck calibration references.

Factory Calibrated Dielectric

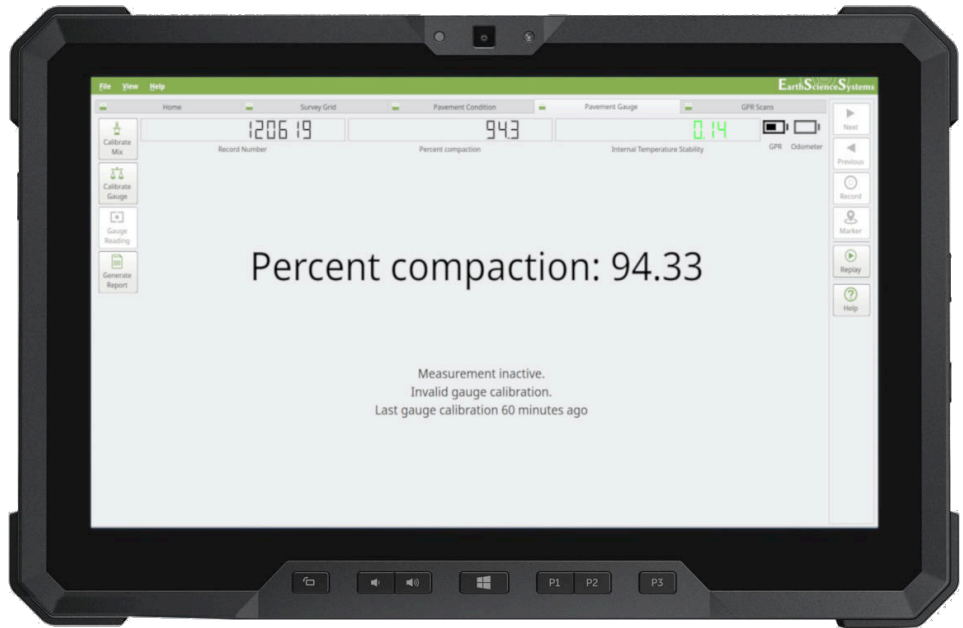
Included dielectric reference disk allows verification of factory calibration at any time.

Tablet Operation

All calibration, spot measurement and reporting can be performed on a tablet computer. No second computer necessary.

Upgrade to Density Mapping

Add a scanning cart (shown below) to create maps of pavement density and temperature using the same radar device.



Easy Setup with No Cables

No cables to get frayed, and no damaged or dirty connectors to replace. Eliminates intermittent connections.

Easy Charging

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

Specifications

- 2 GHz bi-static radar antenna
- Rugged Dell tablet computer
- WiFi for completely cable-less operation
- Durable IP65 ingress protection
- Localization using GPS
- Calibrate from compactor pucks or cores
- Included dielectric reference disk
- Rechargeable LiFePO4 battery with up to 6 hours continuous operation
- Two batteries with dual charger for all day use
- Shipping dimensions:
32 x 20.5 x 15.75 inches (81.3 x 52.1 x 40 cm)
92 lbs. (41.7 kg)



Asphalt Pavement Scanner