

## THINPAVE 5500 - UNMATCHED THIN LAYER ACCURACY

The **ThinPave™ 5500 Overlay Density Gauge** is InstroTek's latest advancement in thin-layer nuclear density testing, built for today's thin asphalt and concrete overlays. Designed by the inventors of the original thin-layer gauge, the ThinPave 5500 delivers reliable, repeatable measurements on lifts ranging from **0.5 to 4 inches (12.5–100 mm)**— an unmatched measurement range.

To further improve measurement reliability, the ThinPave 5500 features a 13% smaller base footprint that reduces surface contact, minimizes the influence of surface roughness on density readings and makes the gauge easier to carry. A **fully enclosed source assembly** prevents material intrusion into the gauge and eliminates routine cavity cleaning, while an improved source indexing and shutter design enhances repeatability of standard counts and field measurements.



## ThinPAVE™ 5500 OVERLAY DENSITY GAUGE



Density data can be downloaded via the USB port, viewed directly on the gauge display or shared via the **MyGauge™ Nuclear Gauge Mobile App**— a cloud based iPhone and Android mobile application designed for today's fast-paced construction environment.



Available with **NukeTrack™**  
Nuclear Gauge Tracker!

The ThinPave 5500 integrates **Professional-Grade RTK GPS with sub 4 inch (10 centimeter) accuracy**, providing precise, repeatable positioning for QC/QA applications. Built-in GPS ensures consistent test location tracking, improves documentation accuracy, and supports modern digital data-driven quality control workflows without the need for external positioning equipment.

Designed for thin layers. Engineered for accuracy. Built for confidence.

*ThinPave™ 5500 the clear choice for thin asphalt and concrete overlays.*



### FEATURES

- ▶ **Meets ASTM D2950, AASHTO T355** and all other applicable ASTM & AASHTO standards
- ▶ **Ultra-Thin Layer Measurement:** Accurate testing for 0.5–4 in. (12.5–100 mm) thick asphalt and concrete layers
- ▶ **Professional-Grade GPS:** Built-in centimeter/inch-accurate positioning for repeatable test locations
- ▶ **Enclosed Source Assembly:** No material contact and no routine cavity cleaning
- ▶ **NukeTrack™** Nuclear Gauge Tracker (*optional*)
- ▶ **My Gauge Mobile App:** Reporting and field workflow automation for any Android® or Apple® Smartphone or Tablet
- ▶ **Improved Source Indexing:** Enhanced mechanical alignment for repeatable test results
- ▶ **Flexible Data Output:** On-screen results plus USB or MyGauge® App export (.CSV) for real-time file sharing

### SPECIFICATIONS

Depth of Measurement	0.5 to 4 in. (12.5 to 100 mm)
Density Source	Cesium 137, Maximum activity 10 mCi (370 MBq)
Density Precision at 1 min count time for 140 lb/ft <sup>3</sup> (2243 kg/m <sup>3</sup> ) material	1 inch (25 mm) thickness: 0.95 lb/ft <sup>3</sup> (15 kg/m <sup>3</sup> ) 2.5 inch (63.5 mm) thickness: 0.44 lb/ft <sup>3</sup> (7 kg/m <sup>3</sup> )
Professional Grade RTK GPS	Sub 4 inch (10 cm) Accuracy
Main Power Source	6-Cell 4/3 A-Cell D NiMH Batteries
Backup Power Source	9V Alkaline
Shielding Materials	Tungsten, Lead, and Cadium
Top Shell	UV Stabilized Polycarbonate
Base and Tower	Aluminum
Source Rod and Handle	Hardened Stainless Steel
Operating Temperature (ambient)	-10 to 70° C (14 to 158° F)
Surface Temperature	170° C (338° F)
Gauge Size	H 11.3 x L 18.3 x W 8.2 inches (28.7 cm x 46.5 cm x 20.8 cm)
Gauge Weight	30.6 lb (13.8 kg)
Shipping Dimensions	H 15.8 x L 32.3 x W 16.8 inches (40.1 cm x 82.1 cm x 42.7cm)
Shipping Weight	72 lb (32.4 kg)
Shipping Case	DOT 7A, Type A, Yellow II, TI=0.1