

CONTINUOUS ROLLING ASPHALT DENSITY MEASUREMENT SYSTEM

PAVESCAN[®]

Powered by **GSSI** Technology

The Future of Asphalt Pavement and Joint Compaction Measurements



InstronTek[®]
Inc.

innovators in instrumentation technology

WITH PAVESCAN® THE FUTURE OF ZERO CORING IS WITHIN REACH

The **InstroTek® PaveScan™** Powered by **GSSI Technology** is the first non-nuclear rolling density system that provides real-time compaction and density data for the entire pavement. Using multiple radar sensors, the PaveScan can continuously scan the pavement and gather density data. This new technology has the potential to drastically reduce if not eliminate the need for field cores. With PaveScan, the possibility of zero coring is within reach.



The on-board computer displays density, compaction, a line graph, and a contour map of the measurements.



THE PERFECT ASPHALT JOINT

Many pavement failures occur and start at the asphalt joints. Therefore, achieving good joint density is key to producing a long-lasting pavement. The PaveScan allows the operator to take density measurements along the entire joint. A single sensor with a green laser guide ensures the sensor is positioned directly over the joint. For the first time, contractors can measure joint compaction consistency throughout the entire project.





THE FIRST CONTINUOUS ASPHALT DENSITY MEASUREMENT SYSTEM

Operators can now simply push the cart along the lane and gather density data after the finish roller. The on-board computer displays density, compaction, a line graph, and a contour map of the measurements. This information can be used by contractors and pavement engineers to assess the quality of the pavement. Operators can make adjustments during construction, reducing density disputes between the owner and contractor agencies.

MORE IS BETTER

Traditional nuclear and non-nuclear gauges only offer single-point measurements. The PavScan three-sensor system can cover up to 6 feet across the lane in a single pass. The PavScan takes hundreds of measurements per minute, producing an accurate picture of the entire pavement project. This is more density data than ever thought possible with current density gauges



Easily overlay PavScan data onto Google Earth map for a full view of the paving project.



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BENEFITS & FEATURES

- Non-nuclear radar technology
- Accommodates up to 3 radar sensors for full pavement and joint coverage
- Complete density map of entire pavement project; not single-point measurements
- The most accurate and precise method of measuring asphalt joint density
- Potential reduction in coring
- Optional GPS receiver and built-in pole adaptor
- Graphic display of data with line graph, contour map, or histogram distribution
- Rugged modular assembly; deploys in minutes and folds for ease of transport
- Foldable deployment arms with high visibility for work zone safety
- Easily charge and exchange batteries



Revolutionary NEW Technology!



Call today to find out more about the Game Changing PavScan[®]
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The Future of Asphalt Pavement and Joint Compaction Measurements

The InstroTek **PaveScan® Powered by GSSI Technology** is a non-nuclear system that provides accurate real-time and continuous density measurements, ensuring the quality of pavements and asphalt joints. This system is ideal for helping contractors build uniform asphalt pavements and can potentially reduce the number of cores required on a pavement project.

PaveScan automatically measures density and can display percent compaction using pavement dielectric values. This innovative technology is used to construct high quality pavements and superior asphalt joints. The PaveScan System is lightweight and folds easily for transportation to and from the job site in a work vehicle. Advanced cable management makes setup easy and can be completed in less than 5 minutes. Once the unit is set up, simply push the system over the pavement or along the joint. A laser guide helps the operators ensure the measurements are gathered directly over the asphalt joint.

The on-board computer can display data in real time from 1, 2 or 3 sensors. Asphalt joints can be measured with only one sensor and three sensors are recommended for coverage of the entire pavement width. The operator can now ensure that the entire pavement is constructed at the highest quality possible by continuously monitoring the density on the system display. All data can be stored for post testing analysis and reporting with project and station identification numbers.

The PaveScan is the first continuous asphalt density system that will help contractors efficiently improve asphalt pavement uniformity, reduce variations in density and increase the quality of asphalt pavements.



FEATURES

- ▶ Meets AASHTO PP 98-19
- ▶ Accommodates up to 3 sensors for full pavement and joint coverage
- ▶ The most accurate and precise method of measuring asphalt joint density
- ▶ Built specifically for the extremes of the asphalt paving environment
- ▶ Green laser to aid in location accuracy
- ▶ Optional GPS receiver and built-in pole adapter
- ▶ Simple User Interface on Panasonic G1 tablet with minimal on-site configuration
- ▶ Rugged modular assembly for easy deployment and transport
- ▶ Foldable deployment arms with high visibility for work site safety
- ▶ Easily charge and exchange batteries

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SPECIFICATIONS

TABLET

Easy View Display	10.1" WUXGA 1920 x 1200 with LED backlight
Processor	Intel® i5-7300U
Available Ports	Ethernet, USB, HDMI
Environmental Rating	IP65
Drop Spec	MIL-STD-810G

MEASUREMENT

Density Precision	± 0.13%
Minimum/Maximum dielectric	2 to 16
Sensor Frequency	2 GHz
Storage Capacity	256 GB

MECHANICAL

Dimensions: One sensor cart system	157 x 63 x 111 cm (62 x 25 x 44 in)
Three sensor cart system	157 x 185 x 111 cm (62 x 73 x 44 in)
Weight	81.4 - 94.6 lbs (36.9 - 42.9 Kg)
Environmental Rating	IP65
Storage Temperature	-55°C to 85°C (-67°F to 185°F)



← 3 sensors offer a wider range of measurements for entire pavement and joint coverage



Configuration for Joint Density Measurements →