

## TECHNOLOGY DEPLOYED IN MATC

# Laser Texture Scanner (LTS)

*Quantify the macrotexture properties of your pavement surface*

### HOW IT WORKS

Collect pavement surface information with the touch of a button using this technology that passes a laser over a 4"x4" section of the surface in 90 seconds. LTS delivers a high-tech assessment of your pavement's macrotexture properties, including mean profile depth, texture profile index, and estimated texture depth. Mean profile depth is a value that helps to understand the macrotexture of a pavement. The tool is portable, requires minimal training to use, and can be used on any dry and clean pavement surface. This technology can be used to scan an asphalt core or slab specimen as well as the pavement mat, and it can be used during mix design, for acceptance, or for forensic analysis. The technology package includes 3D analysis suite software, built-in GPS receiver, built-in rechargeable battery pack, and storage case—plus a tablet computer for easy remote data collection and HD viewing of scan data like elevation height and scan intensity image.



Image Source: FHWA  
LTS Device

**LTS can provide texture data used to analyze friction in skid-prone locations, which can help to reduce vehicular incidents and accidents.**

### LTS FEATURES

Highly

**VERSATILE**



Simple to operate with

**MINIMAL PREP**



Identifies

**SKID-PRONE**

locations



Rapid, non-contact,

**NON-DESTRUCTIVE**

measurements



**QUICK**

preparation time



Meets

**ASTM E1845-15**

standards and specifications\*



Current evaluations of LTS in: California, Indiana, Michigan, Minnesota, Ohio, Texas

Learn more at <https://www.fhwa.dot.gov/MATC>

FHWA-HIF-21-032

\* These standards and specifications are not FHWA requirements.