

LASER IMAGE
MEASUREMENT
SYSTEM

AMES 3D



The Ames 3D Laser Image Measurement System uses a single laser and high speed camera to capture 3D transverse profile data at highway speeds. The system easily installs onto your host vehicle making it one of the most cost effective solutions for pavement condition data collection. This exclusive sensor has been developed as the new standard in accurate texture measurements. Gone are the days of variances due to speed and surface type. The AccuTexture 100 outperforms the Optocator on all surfaces in testing performed by Ames Engineering.

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SPECS:

SYSTEM OVERVIEW:

- * Portable system easily installs onto host vehicle using standard mounting hardware
- * One compact sensor unit capable of covering entire lane 13' width (4m)
- * Uses a Panasonic ruggedized laptop computer for data collection and analysis
- * Ames software suite for complete analysis of pavement condition data
- * Several options available to meet your data collection requirements and budget

USED TO MEASURE THE FOLLOWING PAVEMENT CONDITIONS:

- * Rutting
- * Cross Slope
- * Lane markings
- * Crack detection
- * Edge Drop-Off
- * Raveling

TRANSVERSE PROFILE & RUT SYSTEM:

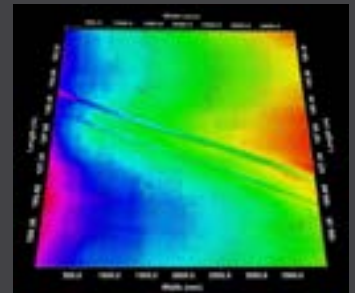
- * Collects surface image, lane markings, rutting, cracks, pavement distress
- * 2,048 Points / Profile Line
- * Sample Rate – 2,000 Profiles / sec
- * Collection Speed – Up To 70 mph (112kph)
- * Longitudinal Spacing – .039-1 in (1-25mm)
- * Transverse Profile Length –13 ft (3.96 M)
- * Transverse Resolution – .077 in (1.95mm)
- * Vertical Range +/- 5 in (127mm)
- * Vertical Resolution – .014 in (0.35 mm)

TRANSVERSE PROFILE & RUT SYSTEM –4K:

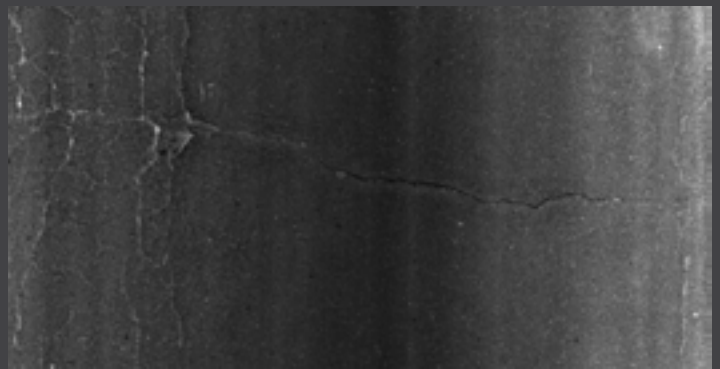
- * Collects the best surface image, lane markings, rutting, crack detection, pavement distress
- * 4,096 Points / Profile Line
- * Sample Rate – 4850 Profiles / sec
- * Collection Speed – Up To 70 mph (112kph)

- * Longitudinal Spacing – 3D MODEL VIEW
.039 – 1 in (1-25 mm)

- * Transverse Coverage – 13 ft (3.96 M)
- * Transverse Resolution – .038 in (0.975 mm)
- * Vertical Range +/- 5 in (127mm)
- * Vertical Resolution – .005 in (0.13 mm)



3D INTENSITY VIEW



3D RANGE VIEW

