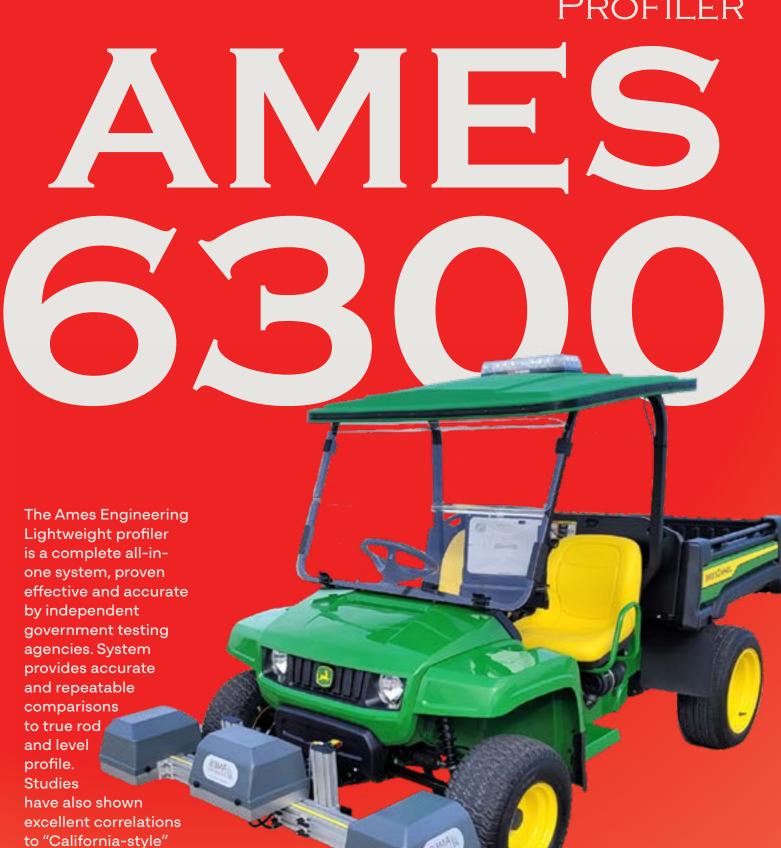
## LIGHTWEIGHT PROFILER



Profilograph.

# **AMES 6300**

## LIGHTWEIGHT PROFILER

#### SPECS:

#### SYSTEM OVERVIEW

- Portable system comes standard on fullyequipped ATV.
- Data collection is powered by Ames
   6.1 software, which is compatible with Microsoft Windows
   7 and later operating systems.
- GPS receiver allows the profile data to be referenced to the GPS location and the IRI profile on Google Earth.
- Capable of collecting data at speeds between 8 and 20 mph.
- Capable of collecting data at speeds www. amesengineering.com between 8 and 20 mph.

#### \* Accurate & Repeatable -

Consistently shown to provide accurate results displaying profile and real time IRI while data is collected.

#### \* Lightweight 8

System comes standard on a reliable John Deere Gator, eliminating the need for a generator. Universal laser system can be shared with high-speed profiler chassis.

#### Instant Information—

Rugged Panasonic Toughbook mounts inside of cab, creating instant profile feedback.

#### SPECIFICATIONS:

- Laser height sensor has a range of eight inches
- Profile wavelength range: 1.8 to 1,200 feet
- Accelerometer resolution: 0.0001g
- Data storage: 70,000+ miles
- Data interchange: Secure Digital (SD) PC card
- Four-wheeled, rugged, 4x2 John Deere Gator
- Gasoline powered 15.5 horsepower engine
- Canopy and windshield for operator compartment
- 360 degree LED safety light
- Fully enclosed trailer available for system transport

## COMPUTER HARDWARE:

- Panasonic Toughbook laptop
- Anti-reflective, antiglare, IPS sunlight readable touchscreen display
- Ethernet connectivity from system devices to data acquisition unit and laptop

### COMPUTER SOFTWARE:

- Microsoft Windows operating system
- Display profile in real time while data is being collected
- Calculates Profile
   Index (PI), International
   Roughness Index (IRI),
   Half-car Roughness
   Index (HRI), Ride
   Quality Index (RQI), and
   Ride Number (RN)
- Plots true profile,
  California profilograph profile, and rolling straightedge profile
- Equipped with variable high and low pass filter options
- Contains automatic bump detection software

- Identifies location of "out-ofspecification" bumps and dips and areas of localized roughness
- Equipped with the following export file options: profile elevation points, ProVal PPF, Texas PRO format, comma separated variable (CSV) format and generated report tables format (HTML), Google Earth KML





