Seismic Source

SeisMike™

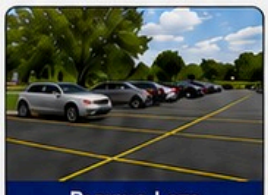
CART SYSTEM

Rapid Multichannel Analysis of Surface Waves (MASW)

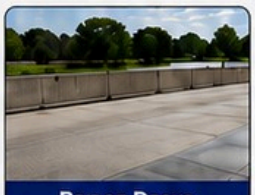
for non-destructive evaluation of concrete and asphalt surfaces

The SeisMike Cart System provides rapid, high-resolution MASW data using advanced microphone-based surface wave analysis. Lightweight, easy to deploy, and built for indoor or outdoor use, the cart system delivers continuous stiffness mapping without coring, lane closures, or planted geophones.

- ✔ Continuous, High-Resolution Data Collection
- ✔ Non-Destructive and Non-Invasive
- ✔ Real-Time Results and Quality Control
- ✔ Ideal for Parking Lots, Pavements, Bridge Decks, and Airport Ramps
- ✔ Make Informed Decisions Before Leaving the Site

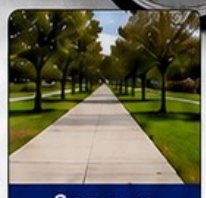


PARKING LOTS



BRIDGE DECKS

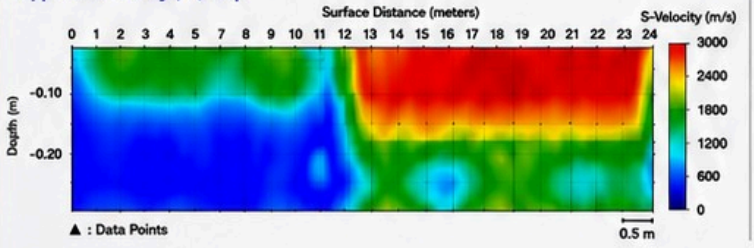
AIRPORT RAMPS



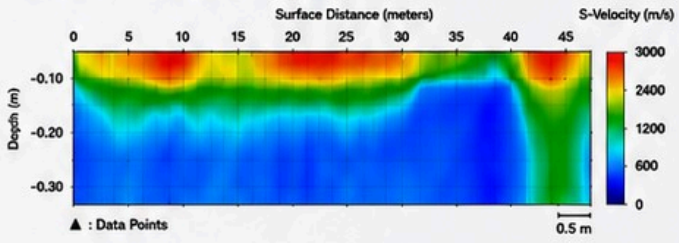
SIDEWALKS

REAL FIELD EXAMPLES – COLLECTED WITH SEISMIKE CART SYSTEM

Approx. S-Velocity (Vs) Map

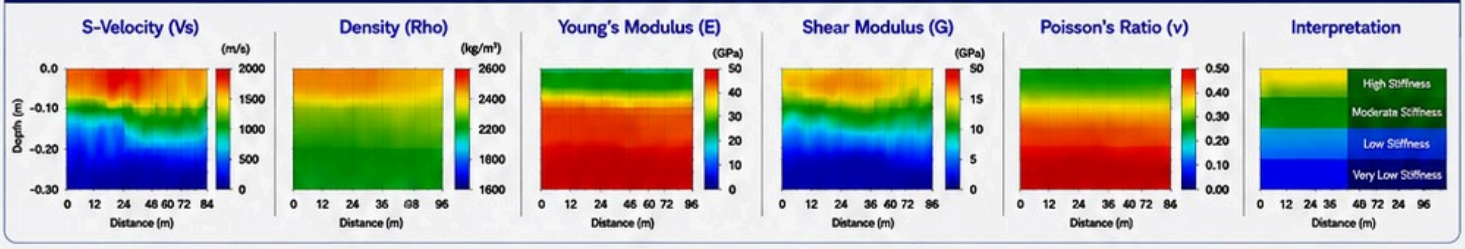


Approx. S-Velocity (Vs) Map – Tower Rd



Real field data collected with the SeisMike Cart System. Results are available within minutes, allowing engineers to identify pavement thickness changes, stiffness variations, weak zones, and structural transitions before leaving the site.

PARK SEISMIC PSX PROCESSING SOFTWARE



FIELD APPLICATION – CART SYSTEM

Non-Destructive Evaluation of Concrete and Asphalt Surfaces in a Wide Range of Applications.

- ▸ Parking Lots & Garages
- ▸ Sidewalks & Pedestrian Areas
- ▸ Bridge Decks & Approaches
- ▸ Airport Ramps & Aprons
- ▸ Industrial Floors
- ▸ QA / QC of New Construction
- ▸ Infrastructure Asset Management

SYSTEM FEATURES

- ✓ Lightweight & Portable Design
- ✓ Supports 24–48+ Channels
- ✓ MEMS Microphone Array
- ✓ Real-Time Data Quality Control
- ✓ Integrated GPS Positioning (Optional RTK)
- ✓ Continuous Data Collection
- ✓ No Geophones or Surface Cables
- ✓ Non-Destructive Testing
- ✓ Indoor and Outdoor Operation

SYSTEM SPECIFICATIONS

Channel Count:	24 – 48+ (Scalable)
A/D Resolution:	24-bit
Acquisition:	Continuous or Triggered
Microphone Spacing:	25 mm (Standard)
Data Acquisition:	DAQlink 6
Source:	Controlled Mechanical Impact
GPS:	Integrated GNSS (Optional RTK)
Power Requirement:	12V DC (Battery)
Weight:	~25 – 35 lbs (11 – 16 kg) (Depends on configuration)

APPLICATIONS

- Concrete Pavement Evaluation
- Asphalt Pavement Evaluation
- Pavement Condition Assessment
- Bridge Deck & Approaches
- Airport Runways & Taxiways
- Industrial & Warehouse Floors
- Sidewalks & Bike Paths
- Infrastructure Asset Management

HOW IT WORKS

RTK GPS Positioning (Optional) →  Data Collected with SeisMike Cart → Surface Wave Acquisition → SeisMike PSX Processing & Real-Time QC → Clear, Actionable Results

Park Seismic
www.parkseismic.com

Seismic Source
www.seismicsource.com

Sales@SeismicSource.com

SeismicSourceCo

SeisMikeSourceCo

Olson Engineering
www.olsonengr.com

Designed and Built in the USA