

What is included with rMetrix?

- ▶ Intuitive Control Software
- High Sensitivity GPS Receiver
- ► Tri-Axial Acceleration and Orientation Sensors
- Mounting Accessories
- Rugged Case
- rMetrix Annual Maintenance Plan
- Software Upgrades
- Technical Support
- Access to the rMetrix Cloud

INTELLIGENT SAFETY SYSTEM for RAIL TRACK and VEHICLE

Quickly identify and prioritize safety and maintenance issues on your track and vehicles with Incorporating cutting rMetrix. edge sensors with an easy-to-use control software interface, rMetrix is effective in assessing ride quality, ride comfort and safety in real-time without the need for a dedicated test car or permanently affixed sensor, rMetrix works with your portable computer so that you can perform an inspection at any time and on any vehicle.

SYSTEM SPECIFICATIONS

GPS Receive

rMetrix works with any Windows compatible (USB/Bluetooth) GPS Receiver that outputs NMEA

messages.

Update Rate 1 Hz

USB Tri-Axial Sensor

Update Rate – Acceleration

400/2000Hz

Lateral · Vertical · Longitudinal

Update Rate – Orientation

Yaw · Pitch · Roll

400Hz

USB Cable Length 2.9m

Dimensions 57 x 42 x 24 mm

Weight 55 g

Temperature Range -40 to 85°C

Full Range Acc 20g

Bandwidth Acc 375 Hz

Vibration and Shock 2000g for 0.5ms

IP67 Rugged Case

Water Resistant Yes

Dust Proof Yes

Dimensions 25.1 x 14.2 x 6.7 cm

Weight 500 g

Temperature Range -23 to 93°C

Computer System Requirements

Operating System Microsoft Windows 10

Processor Intel i5 Equivalent+

Memory 8GB RAM+

Hard Drive 5GB for Installation

Additional space

required for inspection

and GIS data

Connectivity 2 USB 2.0

Ports/Bluetooth

Network Connection

Resolution 1920x1080+

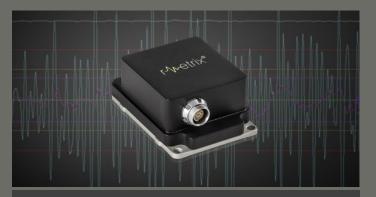
System Options

Active USB Extender Cable 11.8m

Sensor Magnetic Mount 90lb holding power

Sensor External Use Kit Available
Locomotive Power Inverter Available

Wireless Accelerometers Available



Real-time Acceleration and Orientation Data
Real-time Exception Generation and Reporting
US and International Ride Quality Standards
Vehicle Qualification and Suspension Testing
Sensor Data Accessible in Secure rMetrix Cloud



Real-time GIS Engine (GPS · Custom Location System)

Manual Exception and Notes (Location or Time)

Multiple Exception Levels (Alarms · Alerts · Trending)

Import and Correlate Track Geometry Defects

Email Exception Data with Map Location



Multiple Sensor Support
Raw Sensor Data Analysis
Time and Frequency Domain Reports
ISO 2631 Ride Comfort and Health, Sperling Ride Index
Custom Reporting and Metadata

