



# IceSight-RW

Mobile Road Surface Condition Sensor



## Features

- Vehicle or fixed mounted
- Remote (non-contact) surface sensing of ice, snow, wet, damp, and dry
- Road surface friction
- Easy integration with existing telematic or data logging systems
- Low power
- Eye-safe optics
- Flexible mounting options
- Rugged all-weather design
- Lower cost than similar systems



## Overview

*IceSight-RW* is a mobile sensor used to detect hazardous road conditions such as ice, snow, and water. It features a non-contact optical sensor for measuring pavement condition as well as surface friction. Ambient temperature is provided as well.

The RW consists of an optics head which houses the active IR source and receiver optics and an electronics box which can be conveniently mounted inside the cab of the vehicle.

The flexible data stream can be integrated with existing telematic systems for easy data transfer or sent to a hand-held device or lap-top for real-time monitoring.

The sensor continuously monitors the road condition thus providing instantaneous feedback for decision-making, supplementing fixed information from RWIS sites. The sensor can be calibrated in the field ensuring the most accurate readings.

## Applications

- Road Surface Monitoring
- Surface Friction Measurement
- MDSS - Fleet/Municipal Vehicles
- Telematic Networks(OnStar,ITS VII,511)
- Enhanced Electronic Stability Control
- Dynamic Traffic Lights

## Output

- Surface condition:  
ice/snow/wet/damp/dry
- Air temperature
- Friction Factor (0.1 – 1.0)
- ASCII text via RS-232
- Graphical road condition GUI via ethernet

## Specifications

Optics:	2.5" Dia. x 6"
Electronics:	1.5" x 4" x 8"
Weight:	2.5 lb
Power Input:	12 VDC
Max Power:	5 Watts
Oper. Temp:	-40°F to 150°F
Range:	Up to 6 ft
Spot Size:	12" Dia. @ 5'
Elev. Angle:	60° to 90°
Sensitivity:	0.01" ice/water 0.05" snow
Surface:	Asphalt or Concrete
Comm:	RS232, Ethernet
Safety:	Eye Safe Class 1