



# IceSight 2020

## Remote Road Surface Condition Sensor



### Features

- Remote surface sensing of ice, snow, wet, damp, and dry.
- Integrated lens cleaning system – low maintenance.
- Sensor accuracy immune to passing traffic
- Surface & Air Temperature
- Internet compatible communications – view data from any web browser
- Flexible data streaming-integrate with existing RWIS
- Low power requirements–may be solar powered
- Easy Installation
- Rugged all-weather design



### Overview

IceSight IceSight 2020 is an electro-optical sensor which reports the surface weather condition of roadways. IceSight will detect Ice, Snow, or Water without ever having to touch the surface it monitors.

Easy pole-mount installation of the IceSight eliminates the need for penetrating the roadway as other surface sensors require.

IceSight’s high sensitivity enable it to warn road management personnel immediately when snow or ice begins to form, allowing them to take action before roads become hazardous.

The IceSight has been through 5 years of intensive field evaluations with IDI customers and has proven accuracy and effectiveness as a non-contact road condition sensor. The sensor also features a unique cleaning system eliminating the high maintenance requirements of similar products.

### Operation

The spectral differences of surface road conditions are used by the IceSight to determine the surface state. The spectral data is analyzed in real-time and a road condition is reported.

### Applications

- RWIS sites
- Dynamic message sign control
- Automatic spray anti-icing
- Traffic/weather monitoring
- Hazardous roads/bridges
- Aircraft runways and taxiways
- Parking Lots

### Data Output

- Surface condition:  
ice/snow/wet/damp/dry
- Air and surface temperature

### Options

- Digital outputs for peripheral control (i.e. dynamic msg sign)
- Visibility condition
- Wind speed/direction, Pressure, Humidity
- Data Logger/Transmitter

### Specifications

Dim:	15.5”x 5.75”OD
Weight :	17 lb
Power Input:	12 VDC
Max Power:	5 Watts
Oper. Temp.:	-40°F to 150°F
Range:	50 ft (15 m)
Area:	36”Dia. @ 50 ft
Elev. Angle:	30° to 90°
Sensitivity:	±1°F (ambient) ±4°F (surface) 0.01” ice/ water 0.05” snow
Surface:	Asphalt or Concrete
Comm:	RS232, RS485, 802.3 Ethernet
Safety:	Eye Safe Class 1 Laser
Diagnostics:	Start up BIT, One digital test signal