



HIGH SIERRA ELECTRONICS  
environmental monitoring solutions

RWIS

MEASURING THE WEATHER

TO PROTECT THE PUBLIC

AND IMPROVE TRAFFIC SAFETY



Flooded Roadways



High Wind



RWIS



Visibility and Fog

highsierraelectronics.com

*Measuring the weather to  
protect the public and improve  
traffic safety*

## High Sierra Electronics ITS/RWIS Overview

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[www.highsierraelectronics.com](http://www.highsierraelectronics.com)



## HIGH SIERRA ELECTRONICS

*environmental monitoring solutions*

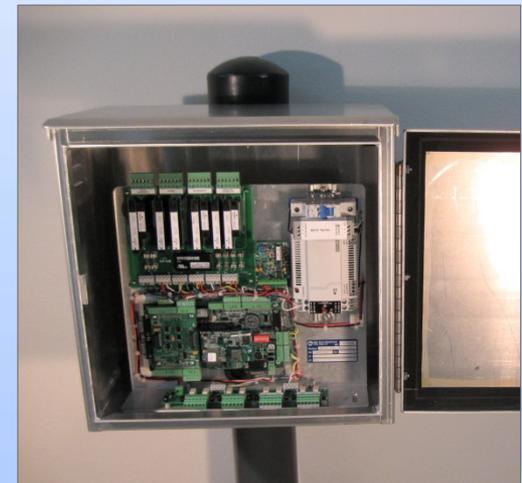
- High Sierra Electronics, Inc. (HSE) designs, manufactures, installs and maintains quality road weather systems, hydrological monitoring systems and meteorological instruments to improve public safety and protect the environment.
- Helping agencies with environmental problem solving since 1992.
- Over 20 years experience developing, integrating and supporting open architecture remote monitoring systems around the world.



TxDOT Bridge Mount Weather  
& Stream Monitoring System  
SH35 at Brazos River

# Remote Processing Units

- NTCIP RWIS & 1U MiniRWIS Remote Processing Units
  - Designed to integrate into existing infrastructure (i.e., ATC & DMS cabinets & signs) as well as new installations.
  - Supports wide variety of commercially available sensors:
    - Road Surface Condition
      - Remote (Non-Intrusive)
      - In-Pavement (Intrusive)
    - Atmospheric Sensors
      - Discrete or combination sensors
      - Air Temperature
      - Relative Humidity (RH)
      - Wind Speed & Direction
      - Barometric Pressure (BP)
      - Visibility (fog, dust, smoke)
      - Precipitation
      - Present Weather
      - Snow Depth
      - Pyranometer (Solar Radiation)
    - 2 Flood Water Level Sensors
  - Built-in Surge Suppressors
  - Each sensor drives dry contact output enabling optional local control of public safety devices (Weather Responsive Traffic Management)
  - Ethernet or EIA-232 communications



# RPU In Existing Infrastructure Kansas City Scout, MO



- Rack mount RPU with non-intrusive road sensor in an existing camera and traffic detection site.

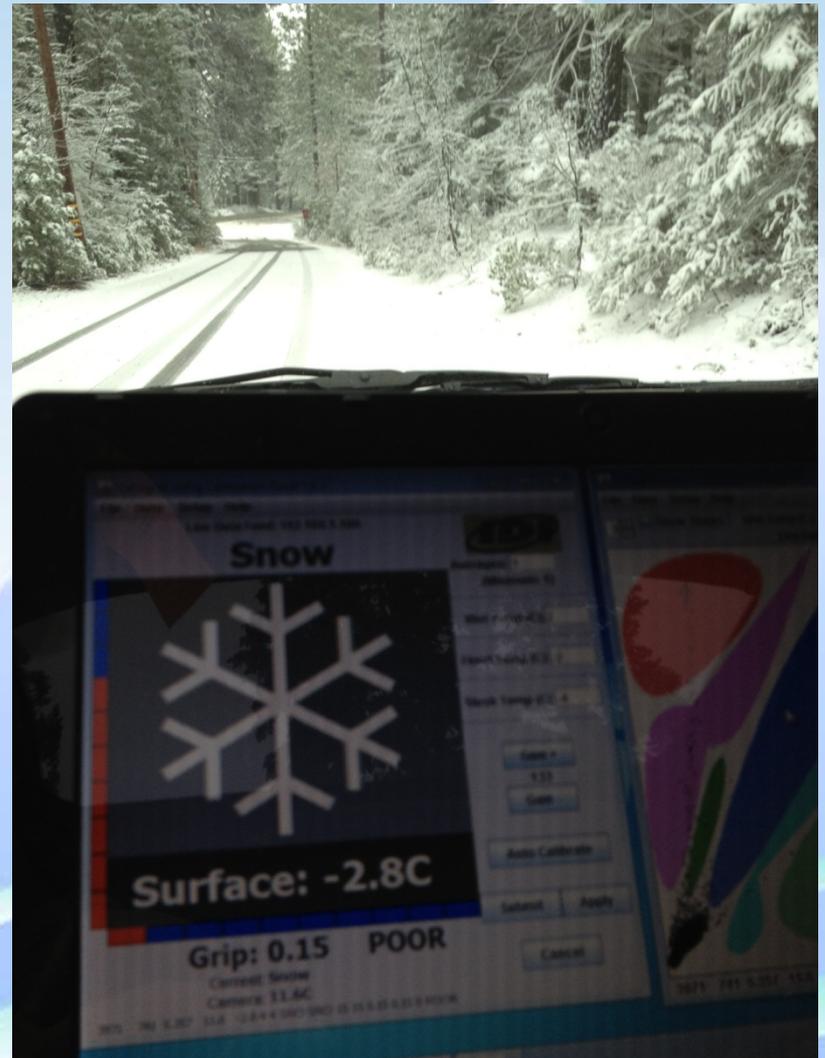
# IceSight 2020S

## Mobile Non-Intrusive Surface Sensor



- Surface Temperature
- Air Temperature
- Relative Humidity
  - Calc Dew point
- Surface Status
  - Dry, damp, wet, slush, snow, and ice
- Surface Grip
  - 0-1
  - Good, Fair & Poor
- Small form factor, single unit with standard ITS camera mounting solutions
- Can be integrated into existing AVL solutions or HSE hosted solution

# IceSight 2020S In Action





SNOW



Road Temp: 35 °F

Grip: 0.30 POOR

Air Temp: 31.3 °F

Dew point: 29.3 °F

Humidity: 63%

[Additional Info](#)

[Help](#)



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# *Environmental Monitoring Solutions*



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## **Email or Call With Any Questions?**

[www.highsierraelectronics.com](http://www.highsierraelectronics.com)