

# MODEL 5437

## IceSight Mobile Processing Unit

- Compact Vehicle Enclosure with Flexible Mounting
- Turnkey AVL Solution with Integrated Cellular Modem & GPS
- Real-time In Vehicle Display on Any Standard Web Browser Including Mobile Devices
- Monitor Fleet in Real-Time with Intuitive Map Display



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089

### DESCRIPTION:

The Model 5437 Mobile Processing Unit (MPU) is a compact Automated Vehicle Locator (AVL) solution for the road weather monitoring community. When connected to a 5435 Mobile IceSight sensor, the MPU serves as a gateway for collecting and viewing real-time, location based road condition and atmospheric data.

The MPU uses its integrated Wi-Fi, cell modem and GPS technology for a low cost and easy to implement data portal. Smart data push rules are used to send data, when you need it, to a cloud based software system or to your own database. This limits the cost of cellular data packages. Store and forward technology is used when the vehicle is not in cellular communication range.



A Wi-Fi hotspot is served up from the MPU that provides a real-time dash display for the operator. Color coded condition, surface temperature, and friction values allow for quick reference to current surface conditions. The display can be viewed on any mobile phone/tablet/laptop browser. Simply connect to the Wi-Fi hotspot with your smart device and navigate to the provided URL.

**IceSight** remote road surface sensor BY HIGH SIERRA ELECTRONICS, INC.

# SNOW

Road Temp: 35 °F

Grip: 0.30 POOR

Air Temp: 31.3 °F

Dew point: 29.3 °F

Humidity: 63%

[Additional Info](#) [Help](#)

Dash Display

The Model 5435 Mobile IceSight Sensor connects to the MPU enclosure via a waterproof, rugged connector. A combined GPS and cellular antenna mounts to the outside of the vehicle and connects to the MPU enclosure. In most cases the MPU is powered from 12 VDC supplied by the vehicle directly connected to the battery or through the cigarette lighter. A connection to the vehicle ignition switch regulates the power to the system.

02-5437-00(A)

Environmental Monitoring Solutions

WEB SITE: [www.highsierraelectronics.com](http://www.highsierraelectronics.com) E-MAIL: [info@highsierraelectronics.com](mailto:info@highsierraelectronics.com)

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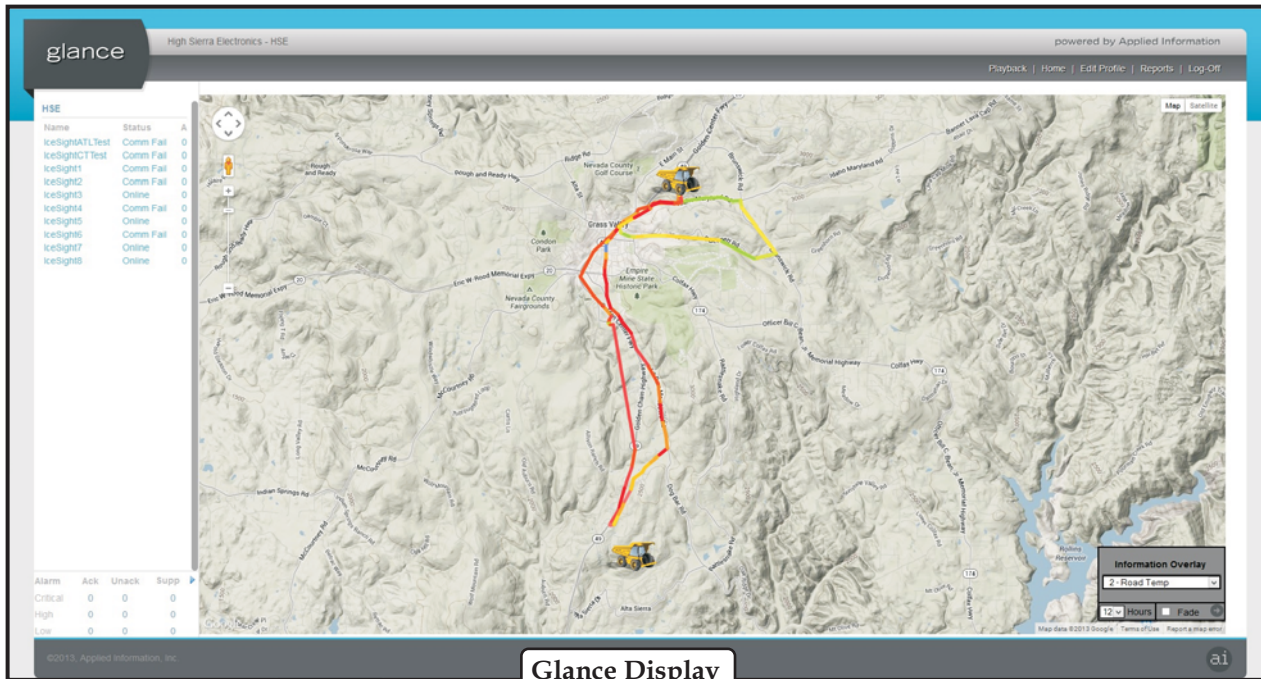
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Glance Display

Coupled with a Glance subscription, the real-time data is displayed on an intuitive Google Maps interface ideal for fleet management. Each vehicle is displayed on the map with color coded trails based on surface temperature, surface condition, surface friction or air temperature. Click on a particular vehicle and a comprehensive real-time tabular and graphical data display is shown. All data is archived and can be downloaded from the "more details" page.

### MOBILE PROCESSING UNIT SPECIFICATIONS:

Input Voltage . . . . .	12 VDC (9-15 VDC)
Power Consumption . . . . .	8.5 Watts Maximum
Temperature . . . . .	-40° C. to +60° C.
Humidity. . . . .	5 to 95% Non-Condensing
Cable Length. . . . .	15 Feet
Communication . . . . .	Cellular, TCP/IP, Serial
Antenna . . . . .	Cell/LTE/GPS with 12 Foot Cable Length
Dimensions . . . . .	11" X 7.75" X 4.75"
Material. . . . .	Fiberglass Reinforced Polyester Plastic
Shipping Weight . . . . .	9 Pounds

### ORDERING GUIDE:

Model 5435-00 . . . . .	Mobile IceSight Sensor
Model 5437-80 . . . . .	Cellular Data Plan
Model 5437-70 . . . . .	Glance Subscription

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