



# Mobile Unit for Sensing Traffic

## MUST



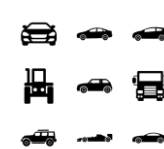



Phone: (800)326-1868

E-mail: [wsun@aiwaysion.com](mailto:wsun@aiwaysion.com)

Web: <https://aiwaysion.com>

AIWaySion's *MUST* is a roadside AI Edge device that integrates comprehensive sensing, data fusion, in-device edge analysis, and communications functions all in one unit. Multiple sensors, including PTZ camera, Bluetooth and Wi-Fi antennae, and temperature and humidity sensors, are integrated to address the diverse needs of applications in smart transportation. *MUST* can detect, analyze, and produce data about vehicle, pedestrian, and cyclist volume, speed and classification; road surface conditions (e.g., dry, wet, ice, snow); visibility; dangerous events including stopped vehicles, collision/near miss, and travel time estimates. *MUST* can be configured as a communication node on the infrastructure side for connected vehicle and similar smart transportation applications. *MUST*'s robust engineering design enable it to work under very challenging weather and environmental conditions.

## KEY FUNCTIONS

 <p><b>Road-side Device for Connected Vehicle Apps</b></p>	 <p><b>Travel Time Data Collection</b></p>	 <p><b>Vehicle Counting &amp; Classification</b></p>
 <p><b>Roadway Monitoring &amp; Control</b></p>	 <p><b>Pedestrian Detection &amp; Trajectory</b></p>	 <p><b>Parking Detection and Security Monitoring</b></p>

## APPLICATION SCENARIOS



1100 NE Campus Pkwy, Ste 200, Seattle, WA 98195

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





## SPECIFICATIONS

○ Operation Temperature	-40 °C ~ 70 °C
○ Operation Relative Humidity	10% ~ 90%
○ Ingress Protection	IP 65
○ Power Supply	12V(DC)
○ Energy Consumption	< 35Watts
○ CPU	ARM1176JZF-S 700 MHz
○ GPU	128-Core Maxwell 1600MHz
○ Communication	3G/4G/5G, Ethernet
○ Operation System	Linux
○ Local Data Storage	Micro Secure Digital (SD) Card
○ Weight	10 pounds
○ Dimensions	170 mm (length), 170 mm (width), 300 mm (height)

