



Mobile Unit for Sensing Traffic MUST







Phone: (800)326-1868

E-mail: info@aiwaysion.com

Web: www.aiwaysion.com

AIWAYSION's *MUST* is a roadside Edge AI 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 FHWA-compliant traffic and micromobility 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>Road-side Device for Connected Vehicle Apps</p>	 <p>Travel Time Data Collection</p>	 <p>Vehicle Counts & Classification & Speeds</p>
 <p>Roadway Conditions Monitoring</p>	 <p>Micromobility Data Collection</p>	 <p>Smart Parking & Curb Management</p>

APPLICATION SCENARIOS



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

www.aiwaysion.com





SPECIFICATIONS

- **Operation Temperature** -40°C ~ 70°C (-40°F to 158°F)
- **Operation Relative Humidity** 5% ~ 95%
- **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)
- **Camera** Resolution: 5MP HD (2560x1944); PTZ: 355°/90° rotation, 5X optical zoom; IR Night Vision; IP66 Weatherproof

