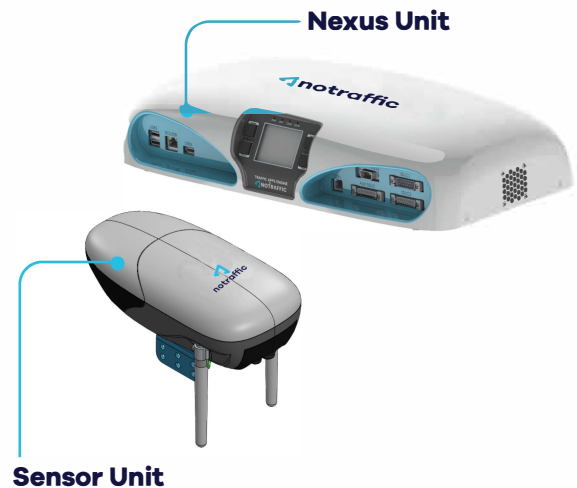




# AI Detection Specifications

The NoTraffic™ Sensor Unit provides unparalleled vehicle detection and classification accuracy for all road users. The Sensor leverages computer vision and radar, coupled with AI algorithm and edge processing, never before applied to traffic management.



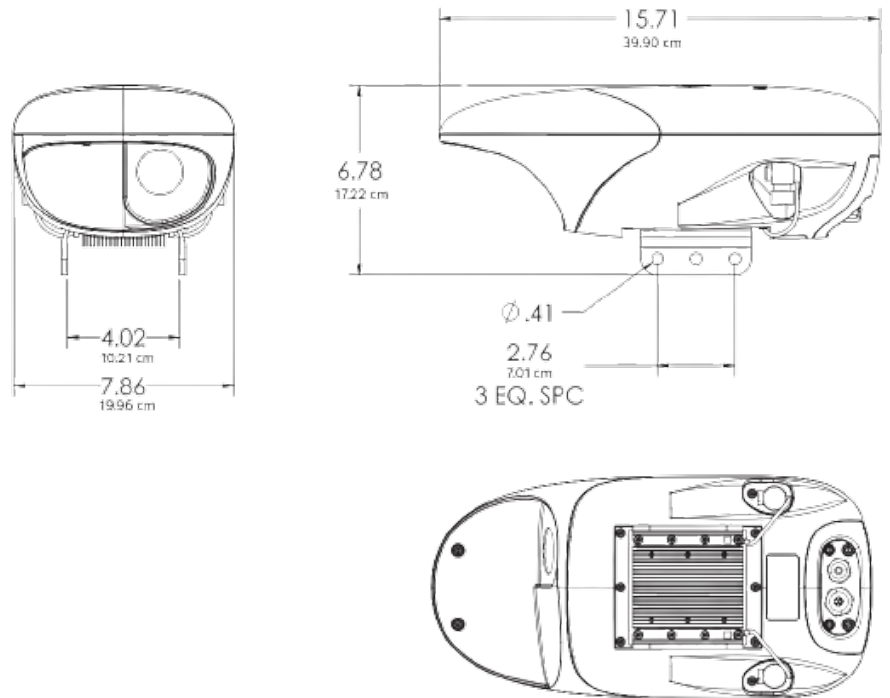
<b>Presence Detection:</b>	Up to 99.7% stop bar accuracy
<b>Advanced Detection:</b>	Up to 720ft (220 meters)
<b>Sensory Input Types:</b>	Video and Radar
<b>Classification:</b>	<ul style="list-style-type: none"> <li>• High detection accuracy of: <ul style="list-style-type: none"> <li>- Vehicle and vulnerable roadway users in all weather conditions</li> <li>- Roadway user classification (vehicle types, micro-mobility, pedestrians)</li> </ul> </li> <li>• Standard FHWA-defined vehicle classifications with customizable classification categories</li> </ul>
<b>Installation Requirements:</b>	<ul style="list-style-type: none"> <li>• Simple Plug &amp; Play installation – only requires power and mounting</li> <li>• Secure wireless connection to in-cabinet interface</li> </ul>
<b>Processing:</b>	Sensor-based edge processing with high-powered AI GPU
<b>Monitoring and Management Tools:</b>	Cloud-based monitoring, management dashboard & communications, Counting and Basic Analytics
<b>NoTraffic Operations Center:</b>	24/7/365 NOC monitoring service included to ensure detection reliability
<b>NoTraffic Mobility Store:</b>	Advanced products and applications are available as software downloads
<b>Hardware Warranty:</b>	5-year with option to extend up to 10 years
<b>System Upgrades:</b>	Over-the-Air (OTA) software updates

# AI Detection Specifications

	 <b>Sensor Units</b>	 <b>Nexus Unit</b>
<b>Temperature and Humidity</b>	-30°F to +165°F, up to 95 % RH per NEMA TS2 (-34.4 degree celsius + 73.8 degree celsius)	
<b>Ingress Protection</b>	IP67 per IEC-60529	IP20 per IEC-60529
<b>Shock &amp; Vibration</b>	Shock: 10g Handling, 30g Crash safety Vibration: 1.5GRMS operational, 5g Endurance per IEC-60068-2, NEMA TS-2	
<b>Qualification Environmental Test</b>	Salt Fog, Freeze/Thaw, Fogging per MIL-STD-810G	
<b>Weight</b>	6 lb. 13 oz., 7 lb. 15 oz w/DSRC & C-V2X Roadside Unit (3.1kg, 7kg, respectively)	5 lb. 8 oz. (2.5kg)
<b>Dimensions</b>	L 15.71 in. x W 7.86 in. x H 6.78 in L 39.09 cm. x W19.96 cm. x H 17.22 cm	L 17.56 in. x W 9.28 in. x H 3.43 in L 44.60 cm. x W 23.57 cm. x H 8.71 cm.
<b>Detector I/O</b>		NTCIP, SDLC, NEMA TS-1 & TS-2, ABC, or Caltrans C1/C11
<b>Video</b>	Supports 1080p@30FPS MJPEG stream	
<b>Regulatory</b>	FCC	
<b>Radar</b>	60GHz Operating Frequency (V Band)	
<b>Cloud Communications</b>		Cellular (LTE)
<b>Wi-Fi</b>	Wi-Fi – IEEE 802.11a/n/ac 5GHz	
<b>Bluetooth</b>		4GBluetooth v4.2 +EDR, Class 1, 2 and 35G
<b>CAV Roadside Unit</b>	DSRC - SAE J2735, USDOT RSU v. 4.1 + C-V2X	
<b>Power</b>	90V-264 VAC 50/60Hz	
<b>Max Consumption</b>	40W	
<b>Mounting</b>	Pelco Astro-Brac, other mounting adapters available on request	NEMA TS-2 style, Caltrans 332, Shelf mounting, rack mounting available on request

# AI Detection Specifications

## Sensor Unit



## Nexus Unit

