NoTraffic Detection Solution & Mobility Platform

NoTraffic

NoTraffic offers an innovative solution that modernizes urban intersections by transforming them into connected and intelligent transport networks. Their AI-powered IoT platform streamlines traffic flow, enhances road safety, and optimizes the use of existing infrastructure.

Description

The NoTraffic solution consists of several key components. Detectors equipped with video and radar sensors, combined with AI-driven detection, ensure precise identification of all road users, even in adverse weather conditions.

The system also includes an interface module installed within the cabinet, which communicates with the detectors, processes data, and relays information to the traffic signal controller to manage the intersection effectively.

Once installed and operational, this high-performance multimodal detection system can function locally without external connectivity, catering to infrastructure owners who prefer (or are unable) to connect their equipment at intersections. The system operates independently, linked to the traffic controller through the designated communication bus within the traffic cabinets. Users can access the equipment, configure it, and retrieve traffic data directly by connecting to the NoTraffic interface module within the cabinet.

To maximize the potential of the NoTraffic system, it can also be operated in its standard cloud-connected mode. This enables remote access to the equipment for configuration, monitoring, video streaming, traffic data analysis, data extraction, alerts, and more. In this mode, data is processed both locally in real-time and through NoTraffic's cloud-based operating system, **Mobility OS**, which allows seamless remote management.

Additionally, the **Mobility Store** offers a range of modular applications to address current and future mobility needs. Among these applications, the **"Optimization" mode** dynamically adjusts and optimizes traffic signals based on real-time conditions, enabling intelligent corridor coordination and maximizing benefits for all road users according to predefined policies established with infrastructure authorities.

Furthermore, this standard connected mode enables **real-time monitoring** of all connected intersections through NoTraffic's **Operations Center**, based in the United States. This center continuously monitors automated alerts generated by the system, processes them, and notifies the appropriate contacts based on the relevance and nature of the events. This ensures **24/7 support and**

surveillance for all equipped and connected intersections.

Specifications

Presence Detection:

- Stop bar accuracy up to **99.7%**

Advanced Detection:

- Up to **183 meters (600 feet)**

Sensor Type:

- **Video and radar**

Classification:

- High-accuracy detection of:
  - Vehicles and vulnerable road users in all weather conditions
  - Road user classification (vehicle types, micro-mobility, pedestrians)
  - Standard FHWA vehicle classification and customizable classification categories

Installation Requirements:

- **Simple Plug & Play installation** – only requires power supply and mounting
- Secure **wireless connection** to the cabinet interface

Processing:

- Edge computing with high-power AI GPU

Monitoring & Management Tools:

- Cloud-based monitoring, management dashboard, communications, basic counting, and analytics

NoTraffic Operations Center:

- 24/7/365 monitoring service ensuring detection reliability

NoTraffic Mobility Store:

- Advanced products and applications available as downloadable software

Equipment Warranty:

- 5 years, extendable up to 10 years

System Upgrades:

- Over-the-Air (OTA) software updates

Temperature & Humidity:

- **Detector & interface module:** -30°F to +165°F, up to 95% RH (NEMA TS2) (-34.4°C to +73.8°C)

Ingress Protection (IP Rating):

- **Detector: IP67** (per IEC-60529)
- **Interface Module: IP20** (per IEC-60529)

Shock & Vibration Resistance:

- **Detector:**

    - Shock: **10g (handling), 30g (crash safety)**
    - Vibration: **1.5GRMS operational, 5g endurance** (IEC-60068-2, NEMA TS-2)

Environmental Qualification:

- **Detector:** Salt fog test, freeze/thaw test, humidity test (MIL-STD-810G)

Weight:

- Detector: 6 lb. 13 oz. (3.1 kg); 7 lb. 15 oz. with DSRC & C-V2X Roadside Unit (7 kg)
- Interface Module: 5 lb. 8 oz. (2.5 kg)

Dimensions:

- Detector: L 15.71″ x W 7.86″ x H 6.78″ (L 39.09 cm x W 19.96 cm x H 17.22 cm)
- Interface Module: L 17.56″ x W 9.28″ x H 3.43″ (L 44.60 cm x W 23.57 cm x H 8.71 cm)

Detector Interface:

- Interface Module: NTCIP, SDLC, HDLC, NEMA TS-1 & TS-2, ATC or Caltrans C1/C11

Video:

- Detector: Supports 1080p @30FPS, MJPEG streaming

Regulations Compliance:

- Detector & Interface Module: FCC & ISED

Radar:

- Detector: 60GHz frequency band (V Band), FCC: 2AVKZRM68-NTA, IC (ISED): 26970-RM68NTA

Cloud Communications:

- Interface Module: Cellular (LTE)

Wi-Fi:

- Detector: IEEE 802.11a/n/ac 5GHz

Bluetooth:

- Interface Module: Bluetooth v4.2 + EDR, Class 1, 2 & 3

Connected Autonomous Vehicle (CAV) Roadside Unit:

- Detector: DSRC – SAE J2735, USDOT RSU v. 4.1 + C-V2X

Power Supply:

- Detector: 90V-264 VAC 50/60Hz

Maximum Power Consumption:

- Detector & Interface Module: 40W

Mounting:

- Detector: Pelco Astro-Brac, other NEMA TS-2 & Caltrans 332 mounting brackets available
- Interface Module: Shelf-mounted, rack-mount option available upon request

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For more information: 1 800 363-5913

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