◢notraffic

AI Detection

NoTraffic's fusion sensors detect all road users in real–time with high accuracy, even in poor weather and lighting. By combining radar and video, the system sends precise calls to the traffic controller, enabling safer, more efficient signal operations.

NoTraffic at the Intersection

Sensors

NoTraffic simplifies detection with one Sensor per approach. Each Sensor provides full coverage including: advance detection, stop bar, pedestrian crosswalks, and bike lanes. Sensors have flexible mounting options for any intersection layout.

Nexus

The Nexus Omni supports all cabinets and controllers. Thin & rack mountable (1U /43 mm height), the Nexus is installed in the cabinet and connects directly to the traffic controller linking the intersection to the cloud with integrated LTE connectivity.
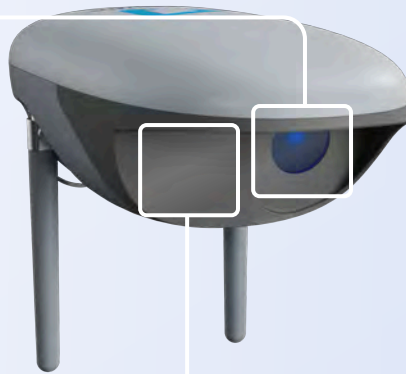
Fusion Detection for All Road Users in All Conditions

HD 1080 Video

- ✓ Visual verification of detection
- ✓ Object-based detection, classification, and tracking
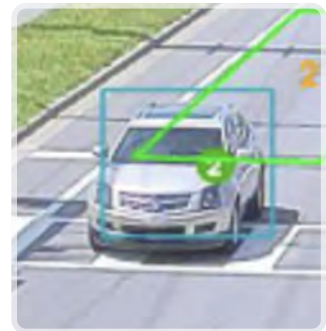- ✓ Lane determination

60 GHz Radar

- ✓ High resolution radar
- ✓ Detection of pedestrians to trucks
- ✓ Highly accurate range & speed
- ✓ Weather penetration
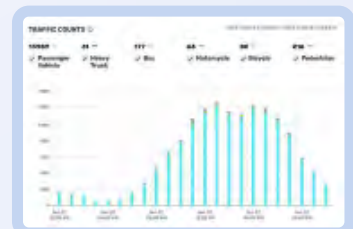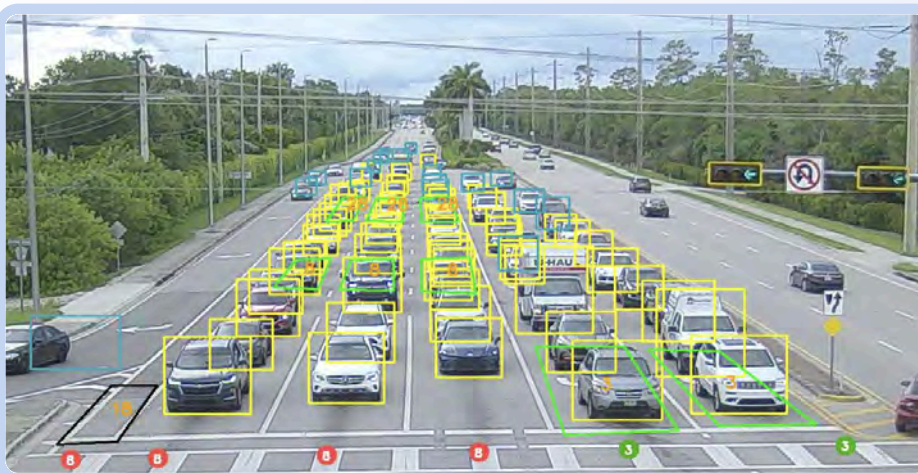
True Fusion Output

- ✓ Location
- ✓ Speed
- ✓ Lane
- ✓ Classification
- ✓ All weather detection

Insights That Go Beyond Detection

Gain real-time, insight-rich, visibility into intersection performance and access the tools you need to assure road user safety, reduce congestion, lower emissions, and improve the quality of life for residents.

- ✓ Turning movement counts
- ✓ Signal performance measures
- ✓ Safety analytics
- ✓ Live video & real-time alerts
- ✓ Access to the Mobility Store

From Insights to Action – Mobility Applications Store

As a centralized hub for data, analytics, and mobility applications, our platform offers software enhanced functionality to optimize traffic flow, enhance safety, and streamline operations. With over-the-air updates and V2X capabilities, it adapts to evolving needs, ensuring long-term traffic management efficiency.

✓ A hub for all mobility applications

✓ New functionality with no additional hardware

✓ Optimization to maximize the capacity of infrastructure

✓ Safety applications to meet Vision Zero Goals

✓ Scalable solutions for traffic management

Software-Defined Detection
Detection

Enables engineers to create custom zones and configure complex scenarios, improving traffic management

Ped Actuation
Detection

Detects curbside pedestrians and sends calls to controllers, eliminating the need for costly pedestrian buttons

Intelligent Transit Detection
Detection

Detects and classifies custom vehicles like light rail and sends signals to controllers for optimized operations

Remote Cabinet Access
Traffic Management

Leverage NoTraffic connectivity to enable remote secure access to manage traffic cabinet systems

Front Panel Access
Traffic Management

Leverage NoTraffic connectivity to enable remote secure access to the traffic signal controller front panel

Near-Miss Insights
Safety ⚥ VRU

Uncover safety issues with statistics and videos of near-miss traffic events

Intersection Safety Insights
Safety ⚥ VRU

Provides deep analytics of red-light running to help agencies identify at-risk intersections to improve safety

Pedestrian Protection Zone
Safety ⚥ VRU

Detects pedestrians in the crosswalk and extends crossing times, enhancing safety for vulnerable road users

Dilemma Zone
Safety ⚥ VRU

Detects a driver's trajectory and extends the green time to reduce sudden stops and red-light running risks

ATSPM
Analytics

Displays detailed measures on signal performance, helping engineers identify underperforming intersections

Comprehensive Traffic Counts
Analytics

Maintains stop bar and turning movement counts by lane and vehicle class, to track improvements over time

Optimization Mode
Mobility

Detects and classifies custom vehicles like light rail and sends signals to controllers for optimized operations

AI Timing Plan
Mobility

Generates AI timing plans that leverage accurate, detailed, traffic data generated from fusion AI Detection

Vision-based Transit Signal Priority (v-TSP)
Mobility

Automated transit vehicle detection and prioritization without the need for additional fleet hardware

Emergency Vehicle Preemption (EVP)
First Responders

Receives preemption calls and adapts signals to create green corridors for emergency vehicles

Situational Awareness
First Responders

Delivers HD video and metadata tracking intersection movement, empowering agencies to assess incidents effectively

Constant 24/7 Support

Traffic runs 24/7, so NoTraffic's US-based managed service is staffed for 24/7 support to keep your infrastructure running.

✓ 24/7 monitoring of all Edge Devices

✓ Remote troubleshooting and support

✓ Over-the-air service and updates

✓ System alerts response team

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✉ contact@notraffic.tech   🔗 notraffic.com

Key Features

Detection

✓ All weather detection: fog, rain, snow, sun glare, night, etc

✓ Advance detection to 720 ft

✓ Detection accuracy 99.5%

✓ Count accuracy 95–105%

Object based classification and tracking

✓ Live 1080p video streams of each approach

✓ Road user classes: pedestrian, bicycle, motorcycle, car, bus, truck, and custom classifications

✓ Zone creation support for stop bar, advance, bicycle lane, dilemma zone, pedestrian crosswalks, etc

✓ Trajectory tracking (location, speed, and heading) and category through entire approach

Connectivity

✓ Wireless or wired communications from Sensors to Nexus

✓ V2X–ready with software activation

✓ Build in multi–band cellular connectivity

✓ Universal cabinet and controller compatibility

✓ Cyber Security certifications SOC 2 Type II and ISO 27001

Installation and Service

✓ US based service team with 24/7 staffed support

✓ Flexible Sensor mounting options from mast arms to span wire (Height: 18–33 ft)

✓ Sensor housing rating IP67 per IEEE 60529

✓ Nexus rack mountable at 1U (1 ¾ in) height

✓ Modular I/O smart harnesses for all controller types (NTCIP, SDLC, NEMA TS 1 and TS 2, Caltrans C1/C11)

AI Mobility Platform

NoTraffic empowers agencies to optimize infrastructure, enhance efficiency, and improve safety by transforming intersections into a connected, digital network. Solve your traffic needs with a single platform powered by state–of–the–art technology.

AI Detection

Mobility OS

Mobility Store

NoTraffic Operations Center