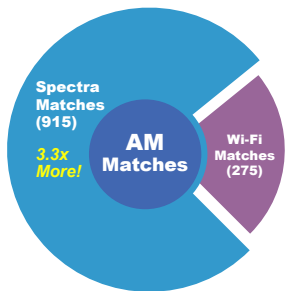


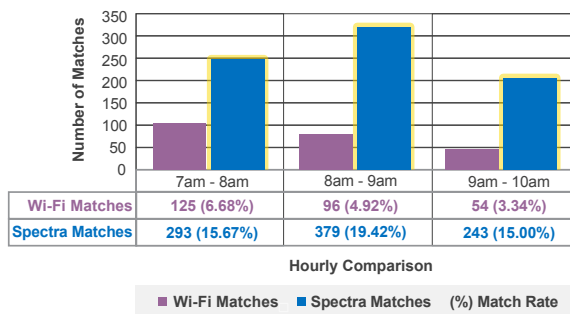


BlueTOAD[®] Spectra

The FACTS are in... The BlueTOAD Spectra Detector, combines Discoverable and Non-Discoverable Bluetooth to deliver Most Samples – Most Matches – Most Advanced Travel-Time System!

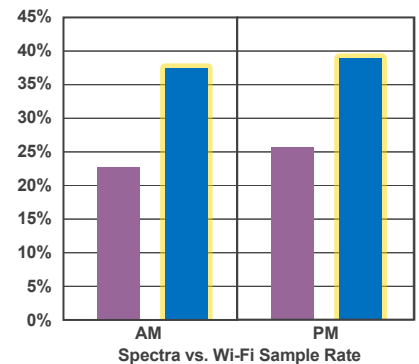


BlueTOAD Spectra vs. Wi-Fi - Matches (AM)



Sample Rate (Spectra vs. Wi-Fi)

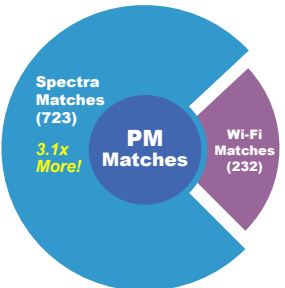
In addition to a higher Number of Matches and a higher match rate, Spectra also delivers a higher sample rate!



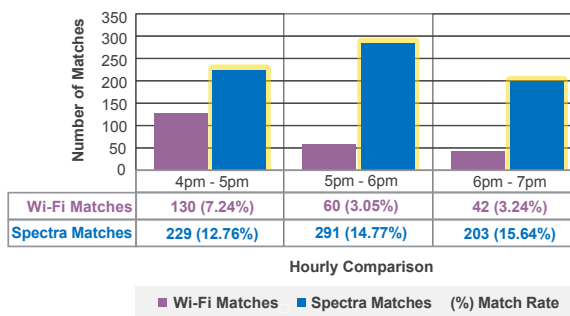
	AM	PM
Wi-Fi	24%	27%
Spectra	40%	39%
Difference	16%	12%

Compared to Wi-Fi, Spectra data is more robust...

Throughout the day, the total number of Spectra matches is significantly higher, compared to Wi-Fi matches – averaging 3X (300%) more matches.



BlueTOAD Spectra vs. Wi-Fi - Matches (PM)



BlueTOAD[®] is the most advanced traffic-monitoring system on the market, directly measuring travel times using cost-effective, non-intrusive roadside technology.

BlueTOAD Spectra Detector

Now, advancements have been developed to increase the number of Detects and Matches, introducing BlueTOAD Spectra, which enables detection of “Non-Discoverable” segments of Bluetooth signals along side BlueTOAD’s industry leading detection of “Discoverable” Bluetooth devices. With the combination of discoverable and non-discoverable Bluetooth detection, testing has shown significant increases in detection and matches.

When a phone pairs up to a vehicle it is rendered “undiscoverable” and undetectable by a standard Bluetooth detector. However, BlueTOAD Spectra is able to detect that undiscoverable device adding significantly to detection

density. Spectra only detects 6 characters of the non-discoverable MAC address further enhancing privacy, not the usual 12 characters. With the number of States legislating use of “hands-free” mode, this new detector, coupled with the existing Bluetooth detector offers a greater amount of data, and significant increases in Origin/Destination metrics.

BlueARGUS — BlueTOAD Travel-Time-Based Performance Software

BlueARGUS is the most comprehensive database manipulation software, now optimized for travel-time data and dashboard-based visualization with BlueTOAD Spectra. Get richer insight to changing traffic patterns and trends. BlueARGUS/Spectra combined is optimized for any agency’s need - city traffic department, county, state, MPO or engineering service provider.



BlueTOAD[®] Spectra

BlueTOAD Spectra



Technical Specifications

Spectra includes both Bluetooth units in one enclosure:

BlueTOAD Ethernet (Discoverable Bluetooth)

Power Specifications

DC Supply Voltage: Minimum - 6 VDC
Maximum - 40 VDC

DC Supply Current:
Maximum 150 mA @ 12 VDC

AC Power (optional):
100-240 VAC

Power Source Options

Power over Ethernet (PoE)

IEEE 802.3af standard

110/220 VAC supply to injector

Operating Range

-40°C to +75°C

Processor

Real time microcontroller

Connectivity

PoE - Ethernet 10BASE-T/100BASE-T

Static or DHCP IP Addressing

Bluetooth

CSR Bluecore 4 Class 1

Antennae

2 dBi Omni (Bluetooth Detector)

BlueTOAD Spectra (Non-Discoverable Bluetooth)

Power Specifications

DC Supply Voltage: Minimum - 6 VDC
Maximum - 40 VDC

DC Supply Current:
Maximum 150 mA @ 12 VDC

AC Power (optional):
100-240 VAC

Power Source Options

Power over Ethernet (PoE)

IEEE 802.3af standard

110/220 VAC supply to injector

Operating Range

-40°C to +75°C

Processor

Real time microcontroller

Connectivity

PoE - Ethernet 10BASE-T/100BASE-T

Static or DHCP IP Addressing

(Only one Ethernet connection needed per unit)

Bluetooth

2.4 GHz Demodulator

Antennae

2 dBi Omni (Bluetooth Non-Discoverable Detector)

Data Storage

On board 4G
Micro-SD Card

Dimensions

NEMA 4 Enclosure:
10 in. x 3.0 in. x 3.0 in.

Weight: < 5 lbs.

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