

BlueTOAD[®] Spectra

The most advanced traffic-monitoring system on the market





Combines discoverable and nondiscoverable bluetooth to deliver the most most advanced travel-time system



Up to 3Xs more matches when compared to WI-FI



Combines interactive, real time speed and congestion maps with automated Performance Measurement reports

BlueTOAD^{*} is the most advanced traffic-monitoring system on the market, directly measuring travel times using costeffective, 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" (Paired) segments of Bluetooth signals along side BlueTOAD's industry leading detection of "Discoverable" (unpaired) 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 paired 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.

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



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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.

BlueARGUS provides:

- Interactive, Real Time Speed Maps & XML
- Real Time Signal, Phase and Timing (SPaT) and Connected Vehicle Data
- Report Scheduler
- Historical Data Reports including; Pair/Route Reports, • Comparison Reports, Travel-Time Reliability Reports and Enhanced Origin & Destination Studies

Specifications

BLUETOAD SPECTRA ETHERNET		BLUETOAD SPECTRA CELLULAR	
Power Specifications	Power over Ethernet (PoE) IEEE 802.3af standard	Power Specifications	Solar Power SOW, 17.5 Vmp Solar: 33 in x 21 in x 2 in, Weight: 17.3 lbs.
	PoE Voltage: 48 VDC 110/230 VAC supply to injector		Solar Power 85 W, 17.9 Vmp Solar: 47 in x 21 in x 2 in, Weight: 17.6 lbs.
DC Power	DC Supply Current: @ 12V - Typical 150 mA @ 12V - Maximum 250 mA		Battery: 60/20 Ah Gel Sealed
		DC Power	DC Supply Current: @ 12V - Typical 250 mA
	DC Supply Voltage: Minimum - 9.5 voe Maximum - 50 voe		@ 12V - Maximum 500 mA
			DC Supply Voltage:
AC Power	100/230 VAC 50 Hz to 60 Hz		Minimum - 9.5 VDC Maximum - 50 VDC
Operating Range	-40° C to +85° C	Power over Ethernet (PoE)	IEEE 802.3af standard
Processor	Real Time Microcontroller		PoE Voltage: 48 VDC
	8GB Removable microSD Card		110/230 VAC supply to injector
Connectivity	PoE - Ethernet 10 BASE-T / 100 BASE-T	AC Power	100/230 VAC 50 Hz to 60 Hz
	Static or DHCP IP Addressing	Operating Range	-40° C to +85° C
	(Only one Ethernet connection needed per unit)	Processor	Real Time Microcontroller
			8GB Removable microSD Card
Bluetooth	Non-Discoverable 2.4 GHz Demodulator	Connectivity	4G LTE CAT4
	Discoverable CSR Bluecore 4 Class 1		Supports all legacy non-4G technologies
Bluetooth Radio (adjustable) Transmit		Bluetooth	Non-Discoverable 2.4 GHz Demodulator
Power Range	-90 dBm to +20 dBm		Discoverable CSR Bluecore 4 Class 1
Antennae	Bluetooth: (2) - 2 dBi Omni	Bluetooth Radio (adjustable) Transmit	
NEMA 4X Enclosure	10 in. x 3.0 in. x 3.0 in.	Power Range	-90 dBm to +20 dBm
Weight	< 5 lbs.		100% to 10% power attenuation settings in 10% decrements

Antennae

NEMA 4X Enclosure

GPS

Weight

ings

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Bluetooth: (2) - 2 dBi Omni LTE: MIMO Receive Diversity

12.14 in x 10.26 in x 7.15 in

(with battery & mounting brackets):

Passive Ceramic

48 lbs