



# HI-TRAC<sup>®</sup> BLUE

## TRAFFIC IMPACT ANALYSIS SYSTEM

The HI-TRAC BLUE Traffic Impact Analysis System uses Bluetooth signals to derive Traffic Journey Time information as well as Traffic Movements (Origin and Destination).

Bluetooth is an open wireless technology standard using the 2.4–2.485 GHz unlicensed spectrum for exchanging data over short distances from fixed and mobile devices.

The HI-TRAC BLUE reads the MAC address of Bluetooth devices that are passing the system. Bluetooth devices include mobile phones, PDA's, hand-free kits, GPS onboard units, laptops, etc.

The HI-TRAC BLUE provides "Invisible detection" for the owner of the detected Bluetooth device. The detection process is unnoticeable for the owner.

The device information collected by the HI-TRAC BLUE cannot be associated with the device's owner, whose privacy and user information is guaranteed.

The received Bluetooth MAC Addresses are truncated and then fully encrypted before transmission.

It is expected that by 2013 two out of every three new cars will offer Bluetooth connectivity.

## APPLICATIONS

- Journey travel times for short and long distance
- Measurements of the time taken to pass-through toll plaza
- Origin and destination traffic matrix
- Traffic management applications
- Statistical information





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### TECHNICAL INFORMATION

#### POWER

6V Lead Acid Rechargeable Battery,  
0.4W (60mA at 6V).  
Solar Panel and Wind Generator  
Options

#### ANTENNA

Directional Sector Antenna to limit  
collection area field in the horizontal  
plane (higher gain antenna – narrow  
collection field)

Intersection Antenna designed with a  
specific radiation pattern for detecting  
devices at intersections

HI-TRAC Blue and Antenna housed in  
IP68 rated enclosures

Antenna blends into surrounding  
environment

Fully compatible with all Bluetooth  
specifications incl. V1.0, V2.0, V2.1, V3.0

Device MAC address details are  
fully encrypted within module before  
transmission over any network.

### SOFTWARE

HI-COMM 100 Compatible  
HI-COMM EZY Compatible  
HI-COMM LITE Windows Mobile  
Application (for suitable mobile phones)  
Drakewell C2 Software Suite Compatible  
Data hosting by TDC/Drakewell or by  
Client Secure data transmission to C2  
database.



C2 Journey Time Matching Engine  
Drakewell C2, C2 Web Reports



### INSTALLATION

Over available infrastructures  
(Gantries, poles, etc.).

One unit covers up to 6 lanes at 70  
mph.

Maintenance and installation  
non-intrusive.



### CONTACT US

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