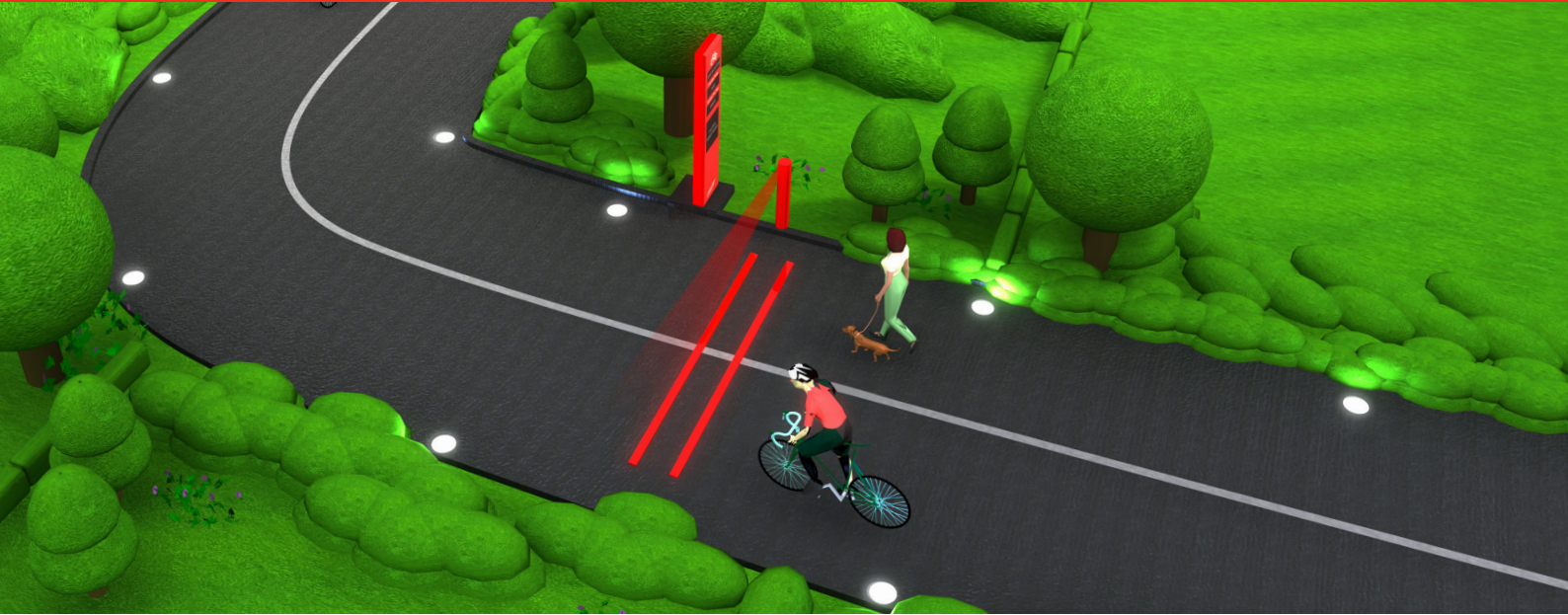# HI-TRAC® CMU
CYCLE & PEDESTRIAN MONITORING UNIT

- MONITOR CYCLISTS AND PEDESTRIANS SIMULTANEOUSLY
- TRANSMITS DATA VIA GPRS/2G/3G/4G
- INTEGRATES WITH CYCLE ACTIVE INFORMATION DISPLAY

OVERVIEW

The HI-TRAC® CMU is a small, low powered, low cost electronic system capable of monitoring up to 4 cycle lanes and 4 pedestrian lanes.

The CMU uses established piezo-electric sensor technology to detect bicycles in either dedicated cycle ways or mixed traffic lanes as well as pyroelectric infra red sensors to detect pedestrians.

Unique algorithms developed by TDC Systems Ltd measure the axle count, speed and wheelbase to distinguish true bicycles from other traffic including child scooters, prams, trolleys, motorbikes and mopeds.
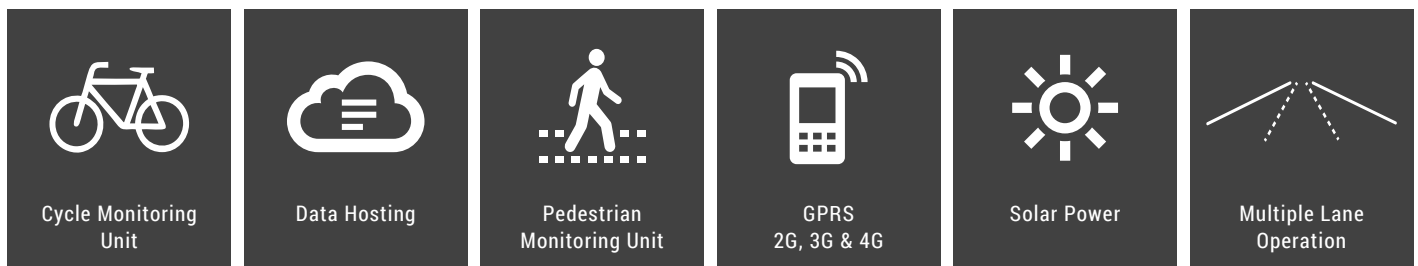
The CMU can be powered by a small 3W solar panel mounted on top of a small pillar, supported by two rechargeable 6v 8AH batteries to form a fully standalone permanent solution.

The CMU unit is sealed to IP68 and can be installed into a small pillar or post.

The CMU can be configured to automatically transmit traffic data via GPRS/2G/3G/4G to a web server for secure data storage to a database.

Legacy GSM dial-up communication is also supported.

KEY FEATURES

Cycle Monitoring Unit	Data Hosting	Pedestrian Monitoring Unit	GPRS 2G, 3G & 4G	Solar Power	Multiple Lane Operation

Roadsys, Inc
334 E Lake Rd #125
Palm Harbor, FL 34685

Toll Free 844-762-3797
sales@roadsysllc.com
www.Roadsysllc.com

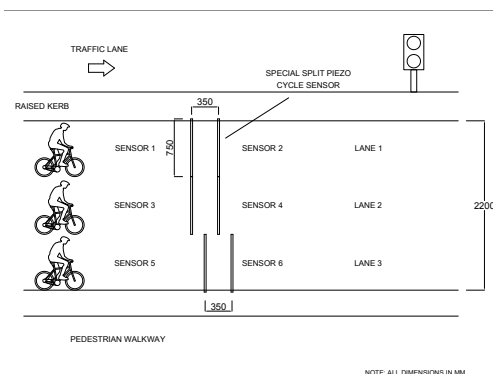ROADSYS

ADDITIONAL FEATURES

- Detects: Bicycles, Bicycle Clusters, Bicycles in two directions, Bicycles with Pedestrian walking and Bicycles made of non-metal materials including Carbon-Fibre.
- Measures: Speed, Direction and Gap/Headway
- Vehicle-by-Vehicle (VBV) data storage

- Triggers for Cycle Signal Priority
- Installed into dedicated cycle ways or mixed traffic lanes
- GPRS/GSM Telemetry Option
- Bluetooth™ Option
- Pedestrian detection using pyroelectric infra red sensors

INSTALLATION

- Two Piezo Electric Sensors per cycle lane or mixed traffic lane.
- One Pyroelectric Infra Red Sensor per walkway.
- CMU electronics housed in above ground pillar or post.
- Typical installation time – 2 hours.

SOFTWARE

- HI-COMM 100 Compatible
- Data Download, Analysis, Real Time VBV View, Report Generation & Diagnostics
- Data hosting and reporting service
- App for Android for easy set up

TECHNICAL SPECIFICATIONS

STORAGE CAPACITY
- 8GB microSD Non-Volatile 365 Day VBV Capacity

INPUT/OUTPUT PORTS
8 Nos.	Piezo Electric Sensors
4 Nos.	Pyroelectric Infra Red Sensors
2 Nos.	GPRS/GSM/2G/3G/4G Modem
1 No.	Bluetooth™
4 No.	Triggered Outputs

DIMENSIONS & WEIGHT
- W - 120mm
- D - 60mm
- H - 110mm
- Weight: 1 kg

POWER SUPPLY
- 6 v 10 AH Lead Acid Rechargeable
- Optional integrated 3W solar panel mounted on Haldo pillar

DETECTOR
- HI-TRAC Cycle Monitoring Unit (CMU)
- Loops

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