HI-TRAC® UTC-L

HIGHLY ACCURATE AND VERSATILE UNIVERSAL LOOP CLASSIFIER

OVERVIEW

With unrivaled flexibility, the HI-TRAC® UTC-L is a highly accurate, low cost universal classification system capable of monitoring up to eight traffic lanes with programmable vehicle categorizations. Using established loop sensor technology with Q-Free's Advanced Loop Profiling function to detect mixed traffic whilst recording vehicle classification, speed, gap, and headway to:

- Classify and count vehicle types
- Identify annual and seasonal traffic trends
- Monitor traffic to correlate changes in transport patterns
- Analyze the impact of heavy traffic flow on infrastructure

With superior power efficiency and low power consumption, the unit is designed for long-term use. Power is supplied by a small cabinet-mounted solar panel.

The HI-TRAC UTC-L can be configured to automatically transmit reliable classification data to a web server for secure storage. Remote connection to the unit is also supported to configure, diagnose and download data manually. Data can then easily be exported to user-friendly formats for analysis and reporting.

BENEFITS

- Detect mixed traffic, vehicle classification, speed, direction, wheelbase, and gap/headway
- Monitor up to eight lanes
- Install in the roadway as a low profile, non-obtrusive permanent solution
- Access traffic information in real-time or for future comprehensive reporting
- Transmit data via internal 2G/3G/4G modem or Ethernet (TCP/IP) for download, diagnostics, and configuration
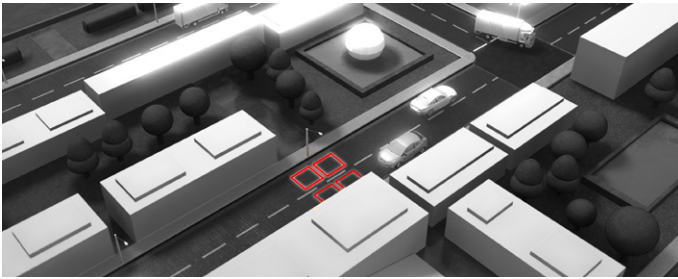
HIGHLY ACCURATE
CLASSIFICATION

MONITOR UP TO
EIGHT
TRAFFIC LANES

Installation illustration

INSTALLATION

The HI-TRAC UTC-L in-road universal classifier unit is permanently installed in the roadway as a standalone solution. Shallow and narrow cuts are made in the pavement to install the loop sensors.

- Two inductive loop sensors per lane
- Electronics housed in roadside cabinet or haldo-type pillar
- Typical installation time: 2-3 hours

ACCURACY AND CONFIGURATIONS

DATA ACCURACY

Volume	99%
Gap	± 8%
Speed	± 1.5%
Length	± 8%
Headway	± 7%
AVC speed range	1 - 180 kph, 1 - 112 mph

AVC ACCURACY (EURO 6)

Class 1: Motorbike	95%
Class 2: Car/vans	97%
Class 3: Car/van + trailer	97%
Class 4: Rigid HGV	97%
Class 5: Articulated HGV	97%
Class 6: Bus and coach	95%

CONFIGURATIONS

- Four lanes loop-loop counter/classifying
- Eight lanes single-loop counting
- Single-loop speed and classification detection mode

DATA REPORTS & HOSTING

- HI-COMM 100 compatible
- Data reports: MS Excel / CSV, Graphs, and TMAS
- Data hosting: C2 Web, MS2, and Transmetric
- Connection via Bluetooth for easy set-up and data retrieval
- Data download, analysis, real-time vehicle-by-vehicle (VBV) view, report generation, and diagnostics

TECHNICAL SPECIFICATIONS

Storage capacity:	Standard 8GB MicroSD data storage
	Up to 365 days data storage
Input/Output ports:	8 x Inductive loop sensors
	1 x 3G/4G modem or Ethernet (TCP/IP)
	1 x Bluetooth
	4 x Triggered outputs
Power supply:	6V 10Ah lead-acid rechargeable battery
	External: Integrated 3W solar panel or mains
Power consumption:	<0.1W
Sensor type:	Inductive loop
IP rating:	IP68
Dimensions (HWD):	10.9 x 11.9 x 6.1 cm (4.3" x 4.7" x 2.4")
Weight:	1.5 kg (3.3 lbs)

◁ *HI-TRAC® UTC-L unit*