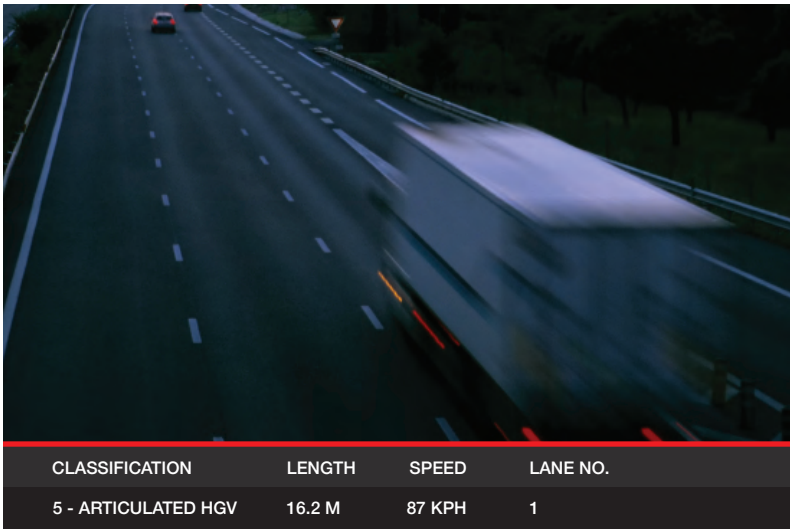


HI-TRAC[®] 110

HIGH-SPEED TRAFFIC COUNTER & CLASSIFICATION SYSTEM



SYSTEM DESCRIPTION

The HI-TRAC[®] 110 is a traffic data collection system intended for multi-lane Automatic Vehicle Counter/Classifying (AVC) mounted in a roadside cabinet at a permanent location.

The system provides a low cost means of recording vehicle classification data without interruption to traffic flow.

The system can be used as a statistical data gathering device to record the pattern of highway traffic as well as a means of event monitoring and incident detection.

The unit incorporates interfaces to both piezo electric sensors and inductive loop sensors and therefore the HI-TRAC 110 can be configured as a weigh-in-motion (HSWIM) system.

TDC Systems advanced vehicle straddling algorithms mean volumetric detection rates in excess of 99.5% are achievable.

The HI-TRAC[®] 110 may be powered from either mains supply or solar panel and associated battery & charge regulator.

GSM and GPRS communications options are available.

FEATURES

- Automatic Vehicle Counter/Classifying (AVC) operation
- Classification of over 100 unique vehicle types
- Vehicle-by-Vehicle (VBV) data storage
- Event monitoring and incident detection
- Euro 6 classification or user defined classifications
- Unique loop profiling function for accurate classification
- High speed compressed vehicle data transmission at least 10,000 vehicle records per minute (typically 20,000)
- Connections for 16 induction loop sensors and 8 piezo electric sensors
- Laptop(USB) & Modem RS232 Communication Ports
- Telemetry output module for data download via mobile telephone network (GSM/GPRS)
- Viewing of sensor waveforms for fault diagnosis via HI-COMM 100 software package
- RS485 Communication Port (Data transmission up to 1Km)



TECHNICAL INFORMATION

AVC ACCURACY

Traffic Volume	>99.5%
Length	±8%
Headway	±7%
Speed	±1.5%
AVC Speed Range	1 to 200 kph

LANE CONFIGURATIONS

Loop-Loop	AVC
Loop-Piezo-Loop	AVC or WIM

LANE CAPACITY

8 Lanes	Loop-Loop
8 Lanes	Loop-Piezo-Loop

STORAGE CAPACITY

256 Mb Flash Mass Storage Media Drive
Upgradeable to 4G

40,000,000 Vehicle VBV AVC Records – 256Mb

VBV DATA RECORDED

Time & Date	Direction of Travel
Site Identity Code	Vehicle Count Number
Lane Number	Vehicle Class
Vehicle Speed	Vehicle length
Inter-axle Spacing	Wheelbase
Vehicle Gap	Headway
Validity Code	

INPUT/OUTPUT PORTS

USB	Laptop (Front Panel Mounted)
RS232	Modem
RS232	Printer
RS485	Data Transmission
Six N.O.	Dry Contact
Two switch inputs (e.g. tamper switches)	

POWER

85-264VAC @ 47-440Hz
12V Battery – Rechargeable via HI-TRAC 110
Solar Panel, Battery & Charge Regulator



SOFTWARE

HI-COMM 100 and HI-COMM EZY Compatible:
Data Download, Analysis, Real Time VBV View,
Report Generation & Diagnostics



Drakewell C2, C2 Web Reports



ROAD INSTALLED ITEMS

Permanently installed inductive loop sensors and piezo electric sensors.

DIMENSIONS & WEIGHT

W =	430mm (485mm with rack mount flanges)
D =	280mm (325mm with handles)
H =	180mm
	7 kg

SHIPPING DIMENSIONS & WEIGHT

550 x 430 x 260mm (w d h)
9 kg

CONTACT US

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