cinemalite

SDR - Radar

accurate, above ground vehicle detection

How does it work?

Detecting vehicles without the need for in-road sensors the SDR Radar senses the presence of vehicles in a carriageway. Accurate measurement of each vehicle passing the invisible sensor zone is made and the flow, classification and speed is recorded, this happens for each direction of a bi-directional single carriageway.

Safe Covert Detection

Removing the need to install in-road sensors the SDR overcomes the hazards associated with the installation of pneumatic tube or inductive loop based sensors technologies.

Ease of Installation

Mounting the SDR on a suitable roadside post is made simple by the use of our lockable universal post plate, minimising time on site and eliminating the need for expensive traffic management.

Automatic Site Set-up

Continued development makes the SDR the most accurate radar traffic classifier available. Using a sophisticated algorithm, the SDR is self calibrating providing the best possible results from collected data.

Accuracy

Field trials have proven the SDR's classification accuracy to 98% when compared to industry standard loop profiling based devices.

The SDR above ground vehicle classifier users the latest radar technology to provide accurate count, speed & classification of vehicles.

Designed to meet the increasing demand for accurate, reliable above ground vehicle detection technology the SDR presents traffic engineers with a safe, advanced, practical alternative to older Tube or Loop based vehicle classifiers.

Options include.

Pro - Speed, Class, Direction
Midi - Speed, Class (2 bins), Direction
Basic - Speed by direction only

Bluetooth - Cableless connection

GPRS - Remote site management

Installation - Complete turn key packages

Solar Power - Permanent power connection

WebReport - Remote data via the internet

Supplied complete with

SDR Radar Traffic Classifier
12V 18Ah Battery
4A Charger

www.cinemalite.com.au

High accuracy

Bluetooth connectivity

Above ground detection

Up to 21 days battery life

Covert, no visible sensors

Stores 1.2 Million Vehicles

Flow, Speed & Classification

Online data via WebReporter

XLS, ASCII ,DMP and SCP output

Bi-directional vehicle classification

Safe, Easy Operation & Installation

Road Safety

Vehicle Monitoring

Pedestrian Monitoring

Cycle Monitoring

Traffic Surveys

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Technical Specification

Sensor:	Microwave power output 5mW
Frequency band:	24.000 - 24.250 Ghz
Operating Freq:	24.150 - 24.250 Ghz (UK selected)
Speed range:	2-130 mph or 3-199 Km/h
Radar range:	up to 120m (adjustable)
Power:	12 volt (rechargeable)
Current:	80mA
Weight SDR:	4.7kg
Battery Weight:	2.7 or 6.3kg
Operating Temp:	-25deg C to +75deg C
Housing:	PVC
Dimensions:	300 x 350 x 150mm
Data Rate:	up to 57.6Kb
Data Output:	XLS, ASCII, DMP, WEB, SCP (Developed for Safety Camera Partnership)
Units:	Imperial or Metric
Memory:	1.2 million vehicles
Data Format:	Speed, date, time, direction, length, gap, headway (per vehicle)
Resolution:	Speed = 1Km/h Length = 10cm
Verification:	Online mode via PDA
Length Calibration:	Manual or Automatic
Installation:	
Angle:	Horizontal 45deg, Vertical 30 to 90deg (adjustable)
Distance:	1 to 8 metres
Height:	1 to 8 metres
Case:	Copolymer polypropylene structural resin (MIL Standard MIL-C-4150-J)

Data Analysis

On line through internet based analysis software WebReporter
Standard output formats: DMP, XLS, TXT, WEB

Licence & maintenance free

Power Supply

Solar Power
240V AC Mains
12 volt 18Ah 10 day battery

Accessories / Options

Intergrated Bluetooth IP67
Industrial Palm Pilot
Universal mounting bracket
Laser45 calibration tool

Communications

Handheld Personal Digital Assistant R232 or Bluetooth
Integrated GPRS modem
WLAN

Road Safety | **Vehicle Monitoring** | **Pedestrian Monitoring** | **Cycle Monitoring** | **Traffic Surveys**