Black CAT Radar

CA Traffic
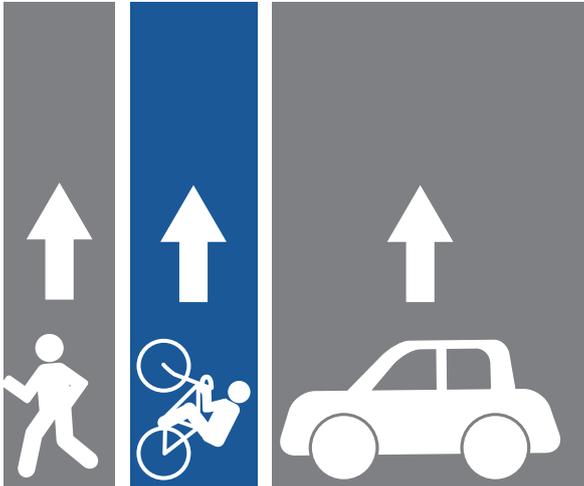A TAGMASTER COMPANY

Pedestrian, Cycle Detection and Traffic Monitoring

The CityRadar is designed and optimized for smart city applications:

- Temporary or periodic traffic counting
- Permanent traffic counting
- Traffic information systems

A technical innovation

The CityRadar allows for the collection of volumetric and classified data without the need for in-ground sensors. This radar product has been designed without traditional low speed cut-out filters to be able to very accurately handle both dedicated paths with cycles and at the same time dedicated paths with pedestrians/joggers. The detection of cycles and pedestrians can even be done with a back drop of normal road traffic.

The City Radar's ability to count groups of cyclists and carbon fibre bikes is superior to other know sensor technologies thanks to its advanced radar sensor and sophisticated discrimination algorithms. The versatile design allows the same device to be installed to monitor normal road traffic where it can count, length classify and determine the vehicles speed. The CityRadar can handle two lanes of traffic in the same direction or a bidirectional lane setup.

Cost effective installation

The CityRadar is a single integrated unit without need for in-ground sensors which makes it easy and quick to install and easy to move.

KEY FEATURES

- ► Accurate counting without in-ground sensors
- ► Targets pedestrians, cycles and traffic vehicles
- ► Very easy to install
- ► Wide range of survey and communications options
- ► Robust and weatherproof design

It can also be installed adjacent to car lanes due to advanced discrimination features. Compatible with an extensive package of software tools including Collect, Catalyst and Vehicle Data Analyser, making configuration, monitoring and reporting very easy to perform. The CityRadar is equipped with Bluetooth and USB communications for local setup and data collection.

The CityRadar can either be used for permanent or temporary installations. The ease of installation means units can be installed and removed quickly and easily, allowing for rapid deployment on existing street furniture. Data can be captured at various locations prior to new cycle ways being introduced to ensure they are in the most effective location. It can also be used to collect traffic data to allow traffic planners to determine if road improvements are required. Devices can either be solar or mains powered for permanent installations, or battery powered for short surveys. Units are fitted with an internal GSM/GPRS/3G/4G modem for remote data collection.

PART NO. INFORMATION

CityRadar with Bluetooth	010698
CityRadar with Bluetooth and 3G modem	010686
CityRadar with Bluetooth and 4G modem	010688
UK Accessory Kit (optional)	010119
European Accessor Kit (optional)	010699
Catalyst (optional)	090058
Vehicle Data Analyser (optional)	090076
Data Hosting Service (optional)	010140

Specifications

Configurations	Single lane up to 5m wide, with cycles and pedestrians in dedicated paths. Dual lane, supports bi-directional traffic and two lanes same direction for road traffic applications. Maximum detection distance is up to 15 meters for Traffic and up to 8 meters for cycle/pedestrian.
Count accuracy	90%+ typical cycle/pedestrian 98% at 95% confidence under normal traffic conditions for traffic monitoring
Speed accuracy	± 5km/h (±3mph) cycle/pedestrian ± 3% error at 95% confidence (traffic monitoring)
Operating time	Depending on battery/solar options
Data storage	4GB (approx. 200,000,000 objects)
Number of files	Maximum 256 data files
Surveys Supported	Historical VBV, Historical Binned, Real-time VBV, Real-time Binned
Operating Voltage	12Vdc
Temperature	-25°C to +70°C (Depending on batteries used)
Dimensions	36x32x23 cm
Weight	6.1kg (excluding battery)
SW/Setup	The CityRadar can be configured and validated using the Collect software application. The CityRadar utilises the same operating system, file format and communications protocol as the BlackCAT product range and is fully supported by the Vehicle Data Analyser and Catalyst instation software suites.
Collect Software	Collect is a Windows based application: http://www.ca-traffic.com/en/technical-support/collect-for-windows/
Solar Panel	External Solar Panel (option)
Communication	Bluetooth/GSM/GPRS/3G/4G
Approval	CE and FCC

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