CityRadar

Pedestrian and Cycle Detection
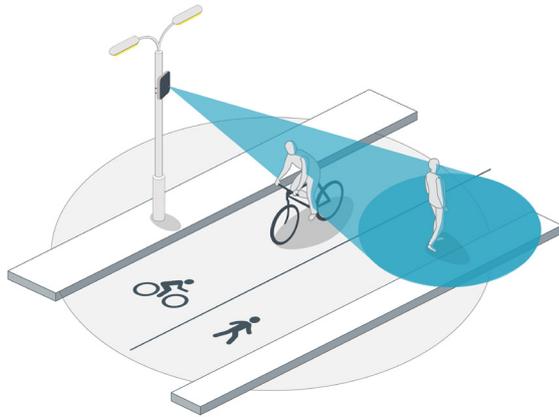
The CityRadar is designed and optimized for Smart City applications:

▶ Temporary or periodic counting
▶ Permanent counting
▶ Bicycle 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 backdrop of normal road traffic.

The CityRadar's ability to count groups of cyclists and carbon fibre bikes is superior to other known sensor technologies thanks to its advanced radar sensor and sophisticated discrimination algorithms.

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. It can also be installed adjacent to car lanes due to advanced discrimination features.

The unit has Bluetooth for installation and configuration. It is supported by EasySetup, a modern and very well-designed Android app for setup. Alternatively, the COLLECT software provide a simple user interface for the configuration and management of the device.

This provides all the tools needed for site installation and commissioning, site validation and fault diagnostics as well as manual data collection if required. CityRadar is compatible with all TagMaster Traffic Monitoring software products and is UTMC compatible in conjunction with the Catalyst. The middleware EasyData offers a Rest API running as a Docker image.

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 bicycle data to allow traffic planners to determine if bicycle path 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 3G/4G modem for remote data collection.

PART NO. INFORMATION	DESCRIPTION
10688, CityRadar	Radar with Bluetooth and 4G modem
10119, UK Accessory Kit	Optional accessories
10699, European Accessory Kit	Optional accessories

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TECHNICAL INFORMATION

Configurations	:	Dedicated lane for bicycles and pedestrians
	:	Mixed lanes for bicycles and pedestrians
	:	Max 8m across the road
	:	Radar installations angles 45° or 35°
	:	Radar installation height 1.8 m – 2.0 m
Count accuracy	:	90%+ typical cycle/pedestrian
Speed accuracy	:	± 5km/h (±3mph) cycle/pedestrian
Operating time	:	Depending on battery/solar options
Data storage	:	4GB (approx. 100,000,000 objects)
Number of files	:	Maximum 256 data files
Surveys Supported	:	Historical VBV, Historical Binned, Real-time VBV, Real-time Binne
Operating Voltage	:	12Vdc
Temperature	:	-25°C to +70°C (Depending on batteries used
Dimensions	:	36x32x23 cm
Weight	:	6.1kg (excluding battery)
SW Support	:	EasySetup Android App and/or Collect PC application for configuration and setup. EasyData or Catalyst for data collection and system integration.
External Power	:	External Solar Panel or external 12V battery charger
Communication	:	Bluetooth/GSM/GPRS/3G/4G
Approval	:	CE and FCC

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