

## Above Ground Vehicle Count, Speed and Classification



### KEY FEATURES

- ▶ Accurate measurement without in-ground sensors
- ▶ Manages two lanes of traffic
- ▶ Very easy to install with free Android App
- ▶ Wide range of survey and communications options
- ▶ Robust and weatherproof design

### The TrafficRadar is designed and optimized for Smart City applications:

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

### Non-intrusive technology

The TrafficRadar unit allows for the collection of traffic data without the need for in-road sensors. The product can monitor two lanes with traffic in opposite directions or with both lanes in the same direction. The advanced embedded algorithms ensure that the vehicle length measurement is highly accurate, allowing for VBV classification.

The device can either be battery powered for short term surveys or can be solar powered for permanent installations. Units comes with a 3G/4G modem and users can specify the way data is collected. It can record either VBV or binned data and can log the data both historically and in real-time. In historical mode the TrafficRadar waits for the user to collect the data, in real-time mode it sends the data automatically to the server at user configurable time periods.

### Cost effective installation

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

The unit has Bluetooth for easy installation and configuration. Smart security is implemented to ensure the high level of security that is a cornerstone of the TagMaster products and combine this with the easy-of-use that is expected. A physical paring (requiring access to the padlock of the equipment) is always used when establishing a connection the very first time. Later use of

a Bluetooth connection with the same device is done via a unique password in the background, without requiring any specific user interaction.

It is supported by EasySetup, a modern and very well-designed Android app for setup. This provides all the tools needed for site installation and commissioning, site validation and fault diagnostics as well as manual data collection if required. TrafficRadar is compatible with all TagMaster Traffic Monitoring software products and is UTMC compatible in conjunction with Catalyst. The middleware EasyData offers a Rest API running as a Docker image and EasyAnalysis offers web-based analysis of data from the unit.

The TrafficRadar 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. Devices can either be solar or mains powered for permanent installations, or battery powered for short surveys. For permanent installations PoE can be used for power and Ethernet Communications. Units are fitted with an internal 3G/4G modem for remote data collection.

PART NO. INFORMATION	DESCRIPTION
212020, TrafficRadar	Radar with Bluetooth 4G and Ethernet
10119, Radar Accessory Kit	Optional accessories
199380, 12V, 24Ah Battery	LiFePO4
199390, Charger	Suitable for LiFePO4 battery

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## TECHNICAL INFORMATION

<b>Configurations</b>	:	2 lanes. Support bi-directional traffic, two lanes same direction and narrow roads
<b>Bi-directional Traffic</b>	:	Volume - 98% accuracy with a 95% confidence Speed - +/-2mph or 3% whichever is greater Length- +/- 40 cm or 5% whichever is greater with a 95% confidence
<b>Dual Carriageway Traffic</b>	:	Volume - 97% accuracy with a 95% confidence Speed - +/-2mph or 3% whichever is greater Length- +/- 40 cm or 5% whichever is greater with a 95% confidence
<b>Operating time</b>	:	Depending on battery/solar options. Up to 10 days on 12V 17Ah battery (using modem communications)
<b>Data storage</b>	:	4GB (approx. 200,000,000 vehicles)
<b>Number of files</b>	:	Maximum 256 data files
<b>Surveys Supported</b>	:	Historical VBV, Historical Binned, Real-time VBV, Real-time Binned
<b>Power Supply</b>	:	Battery 6/12VDC, 12V Battery Charger, External Solar Panel 15-26VDC, PoE IEEE 802.3af
<b>Temperature</b>	:	-40°C to +85°C (Depending on batteries used)
<b>Dimensions</b>	:	36x32x23 cm
<b>Weight</b>	:	5.8kg (as mounted but excluding battery)
<b>SW Support</b>	:	EasySetup Android App for configuration and setup. EasyData or Catalyst for data collection and system integration
<b>Communication</b>	:	Bluetooth/3G/4G/Ethernet
<b>Approval</b>	:	EN 62368-1, Electrical Safety General EN 60950-22, Electrical Safety Outdoor EN 55032: 2015, EMC EN 301 489-1 EN 301 489-51 EN 301 489-52 FCC 47 CFR Part 15 ICES-003 Issue 7 IEC 60068-2-6 Fc, Sine IEC 60068-2-27 Ea, Shock IEC 60068-2-64 Fh, Vibration IEC 60529 2013 IP66 UL94 HB, Flammability 2002/95/EC, 2011/65/EU, 2015/863, RoHS/RoHS2/RoHS3

Due to TagMaster's continuous effort to develop the products in response to customer needs, the above specifications are subject to change.

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