

Black CAT Radar Cycle Detection



Above Ground dedicated cycle lane count

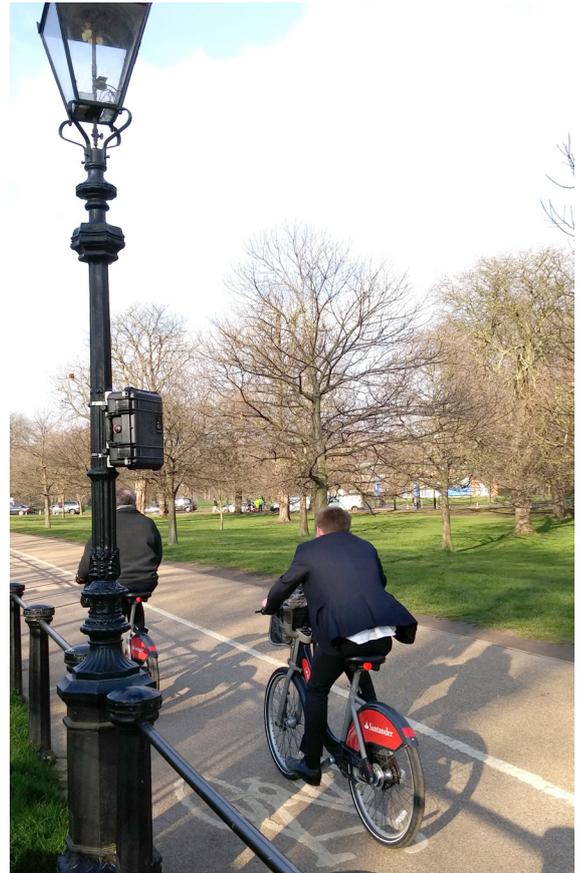
The Black CAT Cycle Radar allows for the collection of cycle data without the need for in-ground sensors. This newly developed radar product has been designed for dedicated cycle paths and can accurately collect volumetric cycle data.

The Black CAT Cycle Radar's ability to count groups of cyclists and carbon fibre bikes addresses the key limitations of other sensor technologies, thanks to its advanced radar sensor and sophisticated discrimination algorithms.

The Cycle Radar can either be used for permanent or temporary installations, enabling it to cater for all user requirements. 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 Cycleways being introduced to ensure they are in the most effective location. Units can then be deployed again to produce data to prove the effectiveness of the cycle lanes.

Devices can either be solar or mains powered for permanent installations, or battery powered for short surveys. Units can also be fitted with an internal GSM/GPRS/3G modem for remote data collection where users can specify how and when the data is collected.



- Track Width Up To 5m
- Memory Size 4GB
- Battery, Solar and Mains Power Options
- Operating Temperature -25 degrees C to +70
- Count Accuracy 90%+
- Compatible with Catalyst
- Compatible with VDA-Pro R2 and VDA Lite
- Easy Setup



Specifications

Configurations	Single lane cycle-way up to 5m wide
Count accuracy	90%+ Typical
Speed accuracy	+/- 3 MPH
Operating time	Dependent upon battery/solar options
Data Storage	4GB (approx 200,000,000 Cycles)
Number of files	Maximum of 256 data files
Surveys Supported	Historical VBV, Historical Binned, Real-time VBV, Real-time Binned
Operating Voltage (V)	12v normal
Temperature	-25 - +70 degrees C (Dependent upon batteries used)
Dimensions	36 x 32 x 23 (cms)
Weight	Dependent on battery option
Setup	The unit can be configured, monitored etc using 'Collect' This software is free of charge and runs on a Windows Platform
Solar Panel	External Solar Panel (optional)
Approval	CE and FCC approval

Software

This product is built around the Black CAT platform and therefore supports the same software packages as other Black CAT products.

Collect

This software provides the capability to configure the unit, monitor the live bicycle output to confirm correct operation and to retrieve data files. Collect can also be used to dial-up units fitted with a GSM/GPRS/3G modem for remote data collection and monitoring.

Catalyst

Manages equipment and provides fault monitoring and reporting tools, data conversion and distribution and can facilitate real time integration with third party systems.

Vehicle Data Analyser

The data is fully compatible with the full range of VDA products, providing cutting-edge reporting functionality from short term temporary surveys to historic and real time data analysis via desktop, cloud and web API services.

Surveys

The Black CAT utilises an internal SD card, providing reliable storage for over 2 years of real-time VBV data.

Historical Surveys

For Historical surveys the system is designed to split the files periodically and have the un-retrieved files collected either manually or via remote telemetry.

Real-time Surveys

For Real Time surveys the data is transmitted directly to the in-station via a permanent low power connection. In the event of network issues any unsent data packets are automatically transmitted on reconnection to the in-station.

Binned Surveys (Historical & Real Time)

These surveys are stored on the unit and wait for the user to collect them either manually or via GSM dialup.

- Volume
- Headway
- Gap
- Speed

VBV Surveys (Historical & Real Time)

- Lane + Direction
- Volume
- Headway
- Gap
- Speed



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