



# SDR radar traffic classifier

The self-calibrating traffic counting system

The **SDR** side radar measuring system is a reliable tool for precise traffic analysis. Our state-of-the-art, contactless traffic data collection system provides you with the essential data you need to make informed decisions regarding mobility. Thanks to its self-calibrating system, setup is a breeze – simply configure it on-site via smartphone and instantly check the measurement quality.

For maximum flexibility, we offer GPRS data communication as an optional extra, allowing you to remotely control the system and transfer data.



**SDR traffic** Speeds, vehicle quantities and vehicle classes



**SDR bike** Speeds, bike quantities and the quantity ratio of bicycles to other vehicles

## Precise and energy-efficient

In mobile applications, with self-sufficient power supplied by a rechargeable battery, measurement campaigns of several weeks are possible. Various optional power supply options, such as using a 230 V connection or deploying our solar system, enable year-round operation of the **SDR** at permanent measurement points.



## Features

- SELF-CALIBRATING
- DATA ON 2 LANES SIMULTANEOUSLY
- CONSISTENT HIGH DATA QUALITY
- STORAGE OF MILLIONS OF DATA RECORDS
- LANE-SPECIFIC INDIV. VEHICLE DETECTION
- OUTPUT OF DATE, TIME
- OUTPUT OF OBJECT LENGTH
- OUTPUT OF SPEED
- FREELY CONFIGURABLE LENGTH CLASSES
- FLEXIBLE INSTALLATION HEIGHTS
- FAST AND SECURE INSTALLATION

## Full control with myTrafficdata

Web-based access and management of your data. Visualise statistics or check the latest police report.

Via GPRS, install firmware updates or book new features. Our **SDR** app (for Android systems) allows you to intuitively configure and read all traffic data.

## SDR radar traffic classifier models



### Technical specifications

<b>Sensor type</b>	Microwave
<b>Frequency</b>	Typ. 24,125 GHz
<b>Output power</b>	5 mW
<b>Speed measuring range</b>	3 - 199 km/h or 2 - 130 mph
<b>Resolution</b>	1 km/h; 0,1 m or 1 mph; 3 ft
<b>Units</b>	Metrical or english (imperial)
<b>Memory</b>	2 GB
<b>Data format</b>	V, date, time, direction, length (PVR)
<b>Data rate</b>	Up to 115200 baud
<b>Communication</b>	Bluetooth® (local) or GPRS (global)
<b>Bluetooth® range</b>	Frontal up to 100 m (line of sight)
<b>Monitoring</b>	Online mode via smartphone or GPRS
<b>Setting</b>	Via smartphone/tablet or GPRS
<b>Installation angle</b>	Horizontal 45°; vertical 30° - 90°
<b>Installation roadside distance</b>	Up to 10 m
<b>Installation height</b>	Up to 8 m
<b>Ambient temperature</b>	- 20 °C - + 50 °C
<b>Weight</b>	4,7 kg without battery
<b>Dimensions (HxWxD)</b>	350 x 300 x 150 mm
<b>Housing material</b>	PP, PC

### Additional features

<b>Update</b>	Flash Update
<b>Webapps</b>	Additional features and functions are available via WebApp Shop
<b>Gain calibration</b>	Manual or automatic (AUTOGAIN)
<b>Length calibration</b>	Manual or automatic (AUTOCAL)

### Software

<b>myTrafficData</b>	Web-based application, reporting and data management software
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### Energy supply

<b>AkkuPack</b>	12 V / 18 Ah rechargeable battery incl. connection cable
<b>PowerUnit</b>	100 - 240 VAC main power supply incl. 12 V / 7 Ah rechargeable battery
<b>SolarSystem</b>	80 / 100 W solar panel

### Installation

<b>SmartBracket</b>	Variable pole mounting installation bracket for 40 to 160 mm diameter
<b>SmartBracket deep</b>	Variable pole mounting installation bracket will carry a Powerpack or PowerUnit
<b>Cabinet (large)</b>	To carry 2 pcs. 12 V / 18 Ah rechargeable batteries

### Accessories

<b>GPRS modem</b>	Internal GPRS modem for global setup, monitoring and file transfer
<b>Webapps</b>	Additional features and functions are available via WebApp Shop
<b>Tripod</b>	Heavy duty steel or lightweight aluminum tripod for short term mobile measurement
<b>Locks</b>	Heavy duty steel locks
<b>Laser45</b>	Laser calibration tool for accurate 45° horizontal installation angle adjustment
<b>Smartphone/tablet</b>	Smartphone/tablet with Android OS and class1 Bluetooth® module



**SDR traffic**  
Binning of traffic in two classes car/truck



**SDR traffic+**  
Binning of traffic in 4+ classes, overhead installation available



**SDR bike**  
Directional count of bicycles on bicycles paths



**SDR bike+**  
Detection of bicycles and other vehicles in one driving direction

### Applications

- MOBILE DATA COLLECTION
- PERMANENT DATA COLLECTION
- URBAN AND RURAL AREAS
- IDENTIFICATION OF HAZARD HOTSPOTS
- POLICE OPERATIONAL PLANNING TOOL



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