



**User Manual for**  
***SDR traffic / SDR traffic+***

**DataCollector**

**Edition 8.2\_I502**



# **Table of Contents**

<b>1</b>	<b>CORRECT USE</b>	<b>1</b>
<b>2</b>	<b>SAFETY REGULATIONS</b>	<b>1</b>
<b>3</b>	<b>QUICK-START GUIDE</b>	<b>2</b>
<b>4</b>	<b>SCOPE OF SUPPLIED COMPONENTS</b>	<b>3</b>
<b>4.1</b>	<b>SDR MOBIL</b>	<b>3</b>
<b>4.2</b>	<b>SDR MAIN</b>	<b>3</b>
<b>4.3</b>	<b>SDR SOLAR</b>	<b>3</b>
<b>4.4</b>	<b>ACCESSORIES</b>	<b>4</b>
<b>4.4.1</b>	<b>DATACOLLECTOR</b>	<b>4</b>
<b>4.4.2</b>	<b>CARD READER</b>	<b>4</b>
<b>4.4.3</b>	<b>SMARTPHONE</b>	<b>4</b>
<b>4.4.4</b>	<b>TRIPOD</b>	<b>5</b>
<b>4.4.5</b>	<b>LASER45</b>	<b>5</b>
<b>5</b>	<b>OPTION VARIANTS</b>	<b>5</b>
<b>5.1</b>	<b>SDRTRAFFIC</b>	<b>6</b>
<b>5.1.1</b>	<b>APPS FOR SDRTRAFFIC</b>	<b>7</b>
<b>5.2</b>	<b>SDRTRAFFIC+</b>	<b>8</b>
<b>5.2.1</b>	<b>APPS FOR SDRTRAFFIC+</b>	<b>9</b>
<b>6</b>	<b>ASSEMBLY</b>	<b>10</b>
<b>6.1</b>	<b>ASSEMBLY OF THE SMARTBRACKET</b>	<b>10</b>
<b>6.2</b>	<b>ASSEMBLY OF THE SDRTRAFFIC / SDRTRAFFIC+</b>	<b>10</b>
<b>6.3</b>	<b>BRIDGEMOUNTING</b>	<b>10</b>
<b>7</b>	<b>PLACE OF INSTALLATION</b>	<b>11</b>
<b>7.1</b>	<b>ROAD SIDE</b>	<b>11</b>
<b>7.2</b>	<b>SPECIAL INSTALLATION - BRIDGEMOUNTING</b>	<b>17</b>
<b>8</b>	<b>COMMISSIONING</b>	<b>18</b>
<b>8.1</b>	<b>POWER SUPPLY VIA AKKUPACK</b>	<b>18</b>
<b>8.2</b>	<b>POWER SUPPLY VIA POWERUNIT</b>	<b>18</b>
<b>8.3</b>	<b>POWER SUPPLY VIA SOLARSYSTEM + CASE 1450 SOLAR</b>	<b>19</b>
<b>8.4</b>	<b>PROTECTION AGAINST THEFT</b>	<b>19</b>
<b>8.5</b>	<b>BOOTUP OF THE SDRTRAFFIC / SDRTRAFFIC+</b>	<b>20</b>
<b>9</b>	<b>ACTIVATION OF THE SDR VIA WWW.MYTRAFFICDATA.COM</b>	<b>21</b>
<b>9.1</b>	<b>ACTIVATION VIA DATACOLLECTOR</b>	<b>21</b>
<b>9.1.1</b>	<b>GENERATION OF THE ACTIVATION FILE</b>	<b>21</b>

9.1.2	UPLOAD OF THE ACTIVATION FILE	24
10	PARAMETER SETTINGS	27
10.1	BASIC SETTINGS PANEL	28
10.2	PANEL APPS	29
10.3	PANEL CONFIGURATION	30
10.4	PANEL CONFIGURATION – BRIDGEMOUNTING	31
10.5	PSL	31
10.6	SITE NAME	31
11	DOWNLOAD AND TRANSMIT OF THE SETUP FILE	32
11.1	VIA DATACOLLECTOR	32
12	READ-OUT OF DATA FROM THE SDR	35
12.1	VIA DATACOLLECTOR	35
13	EVALUATION VIA WEBREPORT	37
13.1	TRANSFER OF THE MEASURED DATA	37
13.1.1	VIA DATACOLLECTOR	37
13.2	EVALUATION SETTINGS	39
13.3	DEFINITION V15, V50 UND V85	41
13.4	SITE	42
13.5	AUTHOR	43
13.6	SAMPLE EVALUATION SDR <i>TRAFFIC</i> / SDR <i>TRAFFIC</i> <sup>+</sup>	43
14	ACCOUNT MANAGEMENT ON MYTRAFFICDATA	49
14.1	PROFILE	49
14.2	CONFIGURATION	49
14.3	BINS	50
14.4	CHANGE PASSWORD	52
15	FLASH UPGRADE FUNCTION	53
16	TECHNICAL DATA DATACOLLECTOR	56
17	TECHNICAL DATA OF THE SDR	57
18	SYSTEM REQUIREMENTS FOR WWW.MYTRAFFICDATA.COM	58
19	FREQUENTLY ASKED QUESTIONS (FAQ)	59
3.	QUESTION: MY DATA IS NOT SAVED ON THE SD CARD!	60
20	DISPOSAL	61
21	PROTECTIVE RIGHTS	61
22	CERTIFICATIONS	62
22.1	FCC AND IC	62



## 1 Correct Use

The counting system SDR*traffic* / SDR*traffic*<sup>+</sup> is solely intended for the collection of data in road traffic.



The Safety and operating instructions in this manual must be strictly observed. Therefore please read the entire operating instructions before using the product.

This product fulfils the legal, national and European requirements. All company names and product designations are trademarks of the respective holder. All rights reserved.

## 2 Safety Regulations

- In case of damage resulting from the non-observance of these operating instructions, the warranty/guarantee shall become null and void! We shall not assume liability for consequential damage!
- We shall not assume liability for material or personal damage caused by improper handling or non-observance of the Safety instructions. In such cases the warranty/guarantee shall become null and void.
- Unauthorised opening, conversion and/or modification of the product is not allowed for safety and approval reasons (CE).
- Operating this product in environments with an explosive atmosphere (zone 0, zone 1, and zone 2 as well as zone 20, zone 21, and zone 22) as specified in the EU directives ATEX equipment and ATEX workplace (94/9/EC and 1999/92/EC) is strictly prohibited by the manufacturer!
- Please handle the product with care; shocks, impact or falling, even from a low height, may cause damage.
- Do not operate the product if the housing is damaged!
- Only use original spare parts from the manufacturer for operation of the instrument.
- In all other cases please contact: [support@datacollect.com](mailto:support@datacollect.com)





## 3 Quick-Start Guide

Step	Explanation	Chapter	Page
Execution only once	Check your shipment to make sure it is complete	4	3
	Register at <a href="http://www.myTrafficData.com">www.myTrafficData.com</a> Afterwards you will receive a password from DataCollect.	-	-
	Set the DataCollector clock (if applicable) – see DataCollector manual	-	-
	Activate your SDR via DataCollector / Smartphone at <a href="http://www.myTrafficData.com">www.myTrafficData.com</a>	9.1	22-27
1	Create a setup file at <a href="http://www.myTrafficData.com">www.myTrafficData.com</a>	10	28-32
2	Mounting of the pole mount and the SDR carrying case	6	11
3	Connecting your SDR to the power supply	8	19-20
4	Processing of the Intro	8.5	21
5	Parameter settings of the SDR via DataCollector / Smartphone	11	33-36
	<b>After completing the settings your SDR is now ready for operation!</b>		
6	Readout of data via DataCollector / Smartphone	12	37-40
7	Uploading of data for creating report to <a href="http://www.myTrafficData.com">www.myTrafficData.com</a>	13	41-42



## 4 Scope of supplied components

The scope of supply varies depending on the power supply.

### 4.1 SDR Mobil

Position	Anzahl	Komponenten
1	1	SDR with case mobil
2	1	SDR User Manual (via email as a pdf)
3	1	AkkuPack
4	1	AkkuPack Setup and Maintenance Manual
5	1	Charger for AkkuPack
6	1	SmartBracket lockable, incl. padlock
7	1	SmartBracket Setup Manual

### 4.2 SDR Main

Position	Anzahl	Komponenten
1	1	SDR with case and external power connector
2	1	SDR User Manual (via email as a pdf)
3	1	SmartBracket deep lockable, incl. padlock
4	1	SmartBracket deep Setup Manual
5	1	PowerUnit with connecting cables
6	1	PowerUnit Setup Manual

### 4.3 SDR Solar

Position	Anzahl	Komponenten
1	1	SDR with solar case
2	1	SDR User Manual (via email as a pdf)
3	1	AkkuPack
4	1	AkkuPack Setup and Maintenance Manual
5	2	SmartBracket lockable, incl. padlock
6	1	SmartBracket Setup Manual
7	1	SolarSystem
8	1	Operating manual for SolarSystem



## 4.4 Accessories

### 4.4.1 DataCollector

The DataCollector is used for the parameterisation of the SDR and for downloading data using the SD card.

A corresponding customer access to the website [www.myTrafficData.com](http://www.myTrafficData.com) is required for the generation of setup files.

For exact information on how to operate the DataCollector, please refer to the instructions enclosed with the DataCollector.



### 4.4.2 Card Reader

The card reader allows you to read the SD card of the DataCollector via a USB connector and to transfer data to your PC.



### 4.4.3 Smartphone

A smartphone (Android OS) is used for the settings and for data download via *Bluetooth*<sup>®</sup> as well as data transfer via 3G / 4G (depending on the smartphone). It allows on-site monitoring of the traffic data acquisition. Generating setup files requires customer access on the website [www.myTrafficData.com](http://www.myTrafficData.com).

For exact information on how to operate the SDR via Smartphone please refer to the helpguide which is included in the Smartphone App or to this manual.





## 4.4.4 Tripod

The stand offers the possibility of installing the SDR in places where a stationary pole does not exist. The stand is available in steel or aluminium.

Maximum installation radius: 0.55m

Minimum installation height: 1.65m

Maximum installation height: 2.10m



## 4.4.5 Laser45

Registered tool for a precise installation of the 45° angle. For exact information please refer to the setup manual enclosed with the Laser45. For further information on the Laser45 please refer to **Chapter 6.5**.



## 5 Option variants

The SDR side-looking radar measurement system is available in versions with four sets of options:

SDR*traffic* and SDR*traffic*<sup>+</sup>

and

SDR*bike* and SDR*bike*<sup>+</sup>

This manual describes the options SDR*traffic* and SDR*traffic*<sup>+</sup>.

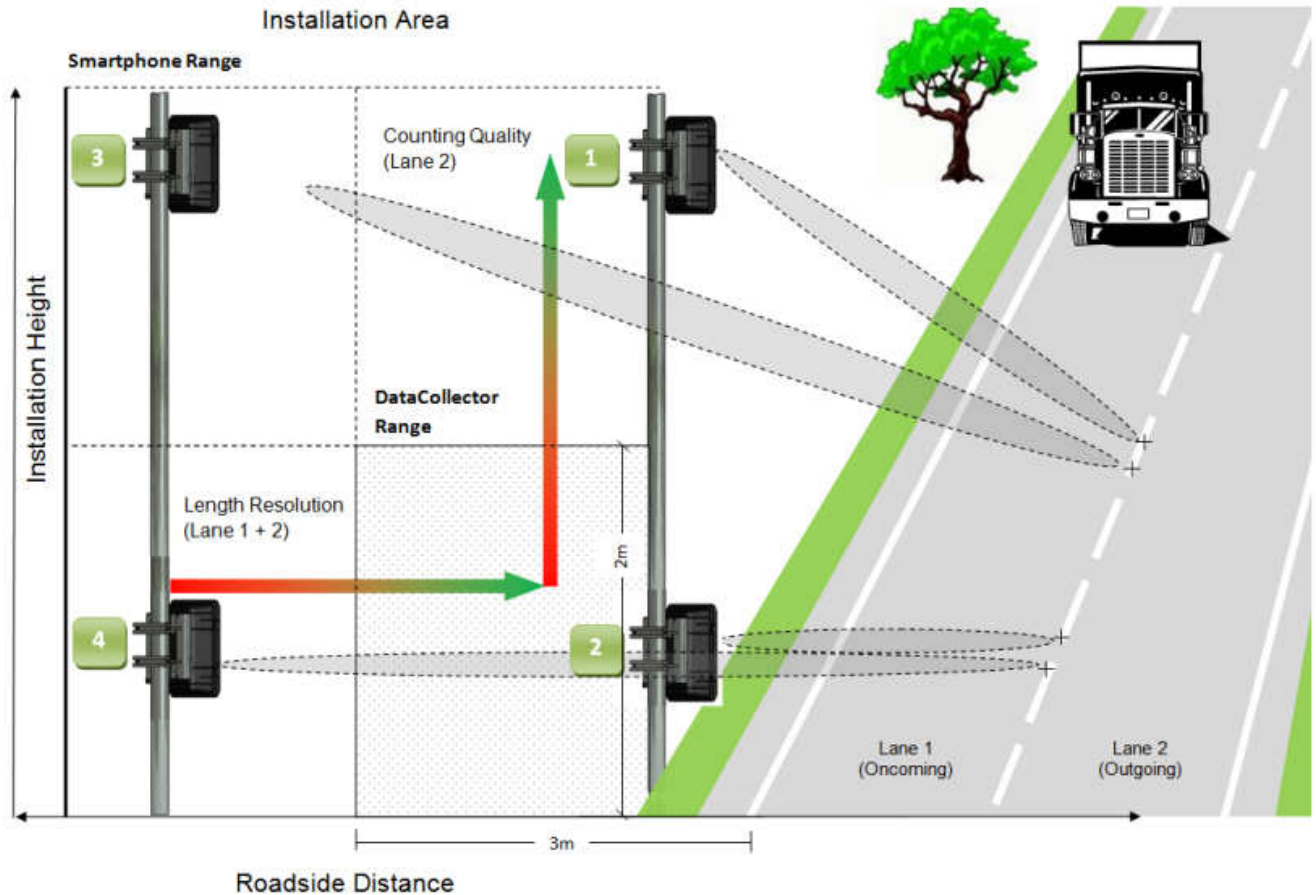
Each of these SDR versions features different and unique functions, which are described below.





## 5.1 SDRtraffic

SDRtraffic features the capability of measuring and counting mixed traffic of 2 classes (car / truck).



The SDRtraffic settings can be made on site without any prior setup via myTD or Smartphone at a lateral distance of up to a max. of 3m and a max. height of 2m via DataCollector.

If the installation height and distance differ from these settings, the system must be set up via smartphone on site or via myTD and DataCollector. The installation area can be extended to a height of max. 8m and a lateral distance of max. 10m.



## 5.1.1 Apps for SDRtraffic

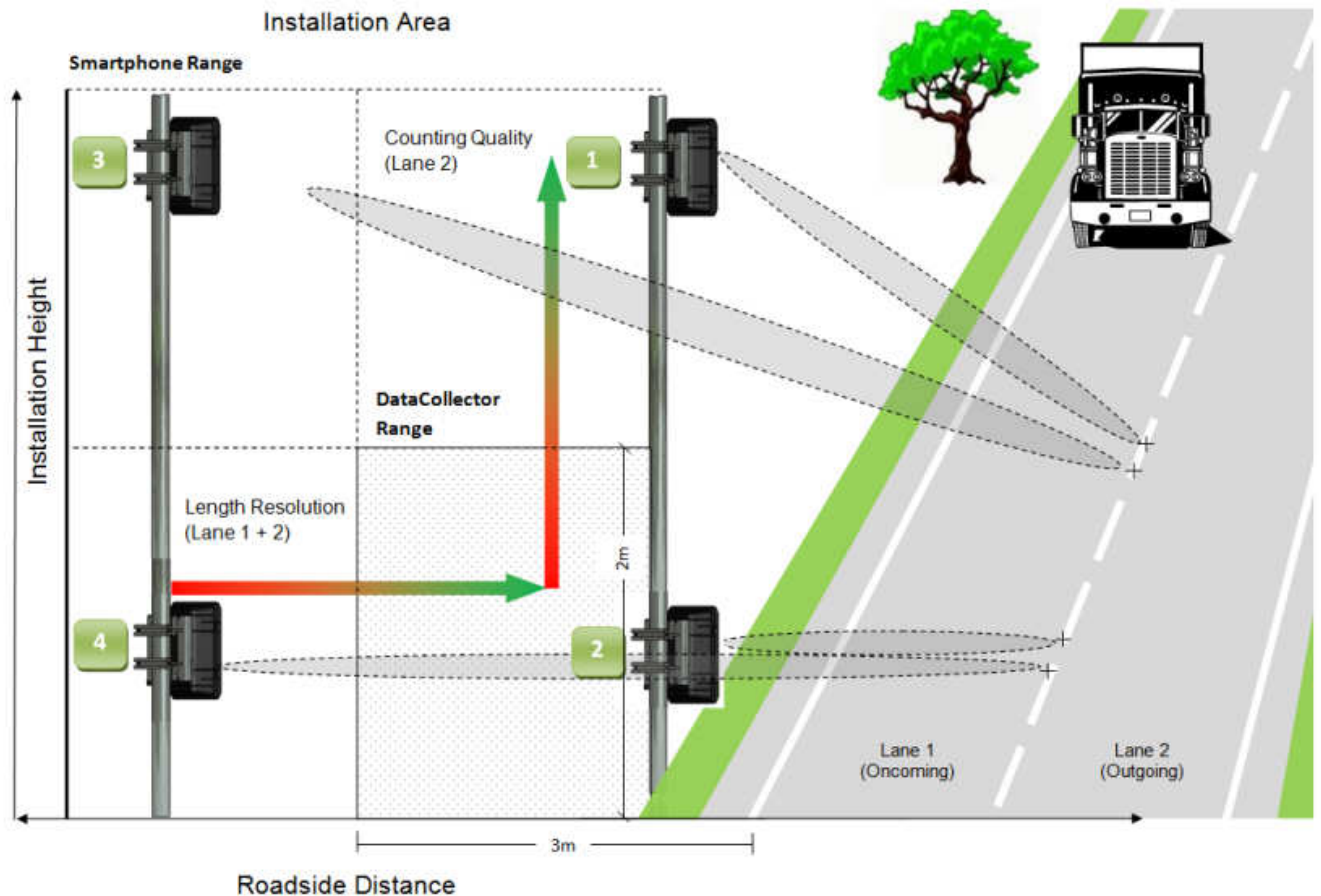
Various optional apps for SDRtraffic, which can be purchased separately, are described below:

App	Soft / Hardware App	Beschreibung	Icon
Speed measurement	Soft	This version of the SDR features the capability of measuring the speed of vehicles.	
Direction measurement	Soft	This version of the SDR features the capability of measuring the number of vehicles in a particular direction.	
Direction measurement, total	Soft	This version of the SDR features the capability of measuring the total number of vehicles independent of the direction.	
Direction measurement, separate	Soft	This version of the SDR features the capability of measuring the total number of vehicles in two directions separately.	
Bridge mounting	Soft	Allows a bridge measurement. This allows an overhead measurement of lane selected and direction based traffic data.	
Timer	Soft	This function allows you to set time-dependent active phases of the SDR. Setting the times is explained in the separate section on parametrisation.	
Summer time / winter time	Soft	The clock is automatically reset to summer and winter time	
Flash upgrade	Soft	The SDR software can be upgraded via the Bluetooth® connection of the DataCollector.	
Traffic Flow	Soft	Online Monitoring Tool for a local monitoring of the traffic flow	



## 5.2 SDRtraffic<sup>+</sup>

SDRtraffic<sup>+</sup> features the capability of measuring and counting up to 4 classes.



The SDRtraffic<sup>+</sup> settings can be made on site without any prior setup via myTD or Smartphone at a lateral distance of up to a max. of 3m and a max. height of 2m via DataCollector.

If the installation height and distance differ from these settings, the system must be set up via smartphone on site or via myTD and DataCollector. The installation area can be extended to a height of max. 8m and a lateral distance of max. 10m.



## 5.2.1 Apps for SDRTraffic+

Various optional apps for SDRtraffic<sup>+</sup>, which can be purchased separately, are described below:

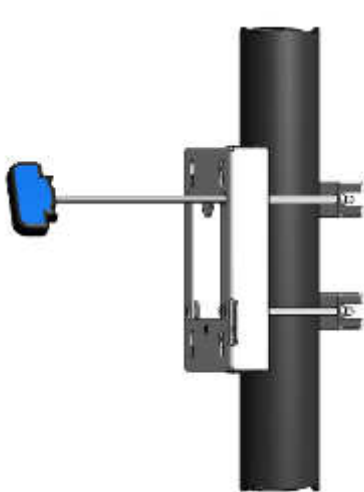
App	Soft / Hardware App	Beschreibung	Icon
Speed measurement	Soft	This version of the SDR features the capability of measuring the speed of vehicles.	
Direction measurement	Soft	This version of the SDR features the capability of measuring the number of vehicles in a particular direction.	
Direction measurement, total	Soft	This version of the SDR features the capability of measuring the total number of vehicles independent of the direction.	
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Bridge mounting	Soft	Allows a bridge measurement. This allows an overhead measurement of lane selected and direction based traffic data.	
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Summer time / winter time	Soft	The clock is automatically reset to summer and winter time	
Flash upgrade	Soft	The SDR software can be upgraded via the <i>Bluetooth</i> <sup>®</sup> connection of the DataCollector.	
Traffic Flow	Soft	Online Monitoring Tool for a local monitoring of the traffic flow	



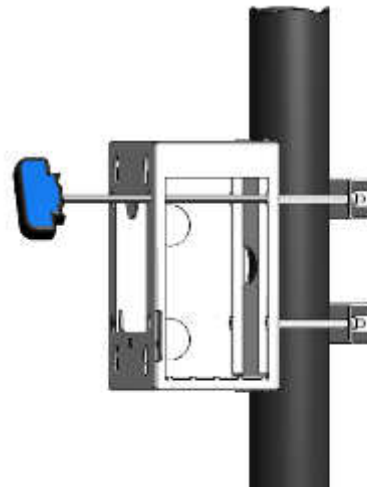
## 6 Assembly

### 6.1 Assembly of the Smartbracket

The assembly instructions for the SmartBracket can be found in the enclosed installation instructions.



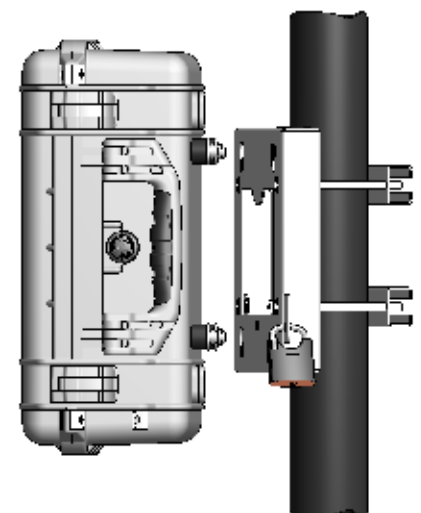
Smartbracket: Mobil / Solar



Smartbracket Deep: Mobil / Solar

### 6.2 Assembly of the SDRtraffic / SDRtraffic<sup>+</sup>

The SDR case is hooked into the four holes provided in the mounted SmartBracket using the four locking bolts on the rear side and it is secured by a locking mechanism and padlock.



### 6.3 Bridgemothing

An overhead installation of the SDRtraffic / SDRtraffic<sup>+</sup> is generally possible. A suitable mounting device has to be supplied by the customer.



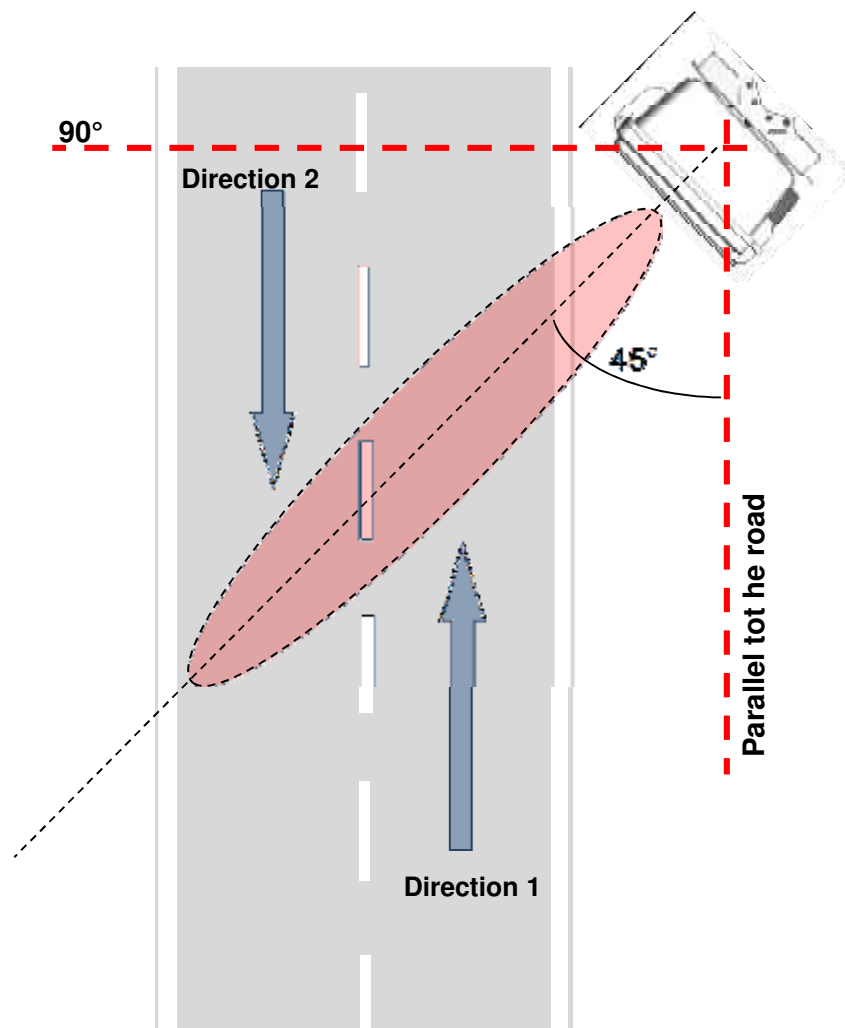
## 7 Place of Installation

### 7.1 Road side

Our installation system allows mounting of the SDR on poles, trees, buildings, etc. When choosing the installation location for the SDR you must make sure that no objects such as trees, buildings, etc. block the SDR's "view" of the road.

The following requirements must be observed during installation of SDR:

Technical requirement	DataCollector (without prior setting)	DataCollector (with settings on myTD)
Installation height	min.1m up to max. 2m	min.1m up to max. 8m
Roadside from edge of traffic lane	min.1m up to max. 3m	min.1m up to max. 10m
Elevation (inclination angle – see page 14)	90°	calculation via myTD
Azimuth (horizontal angle)	45°	45°

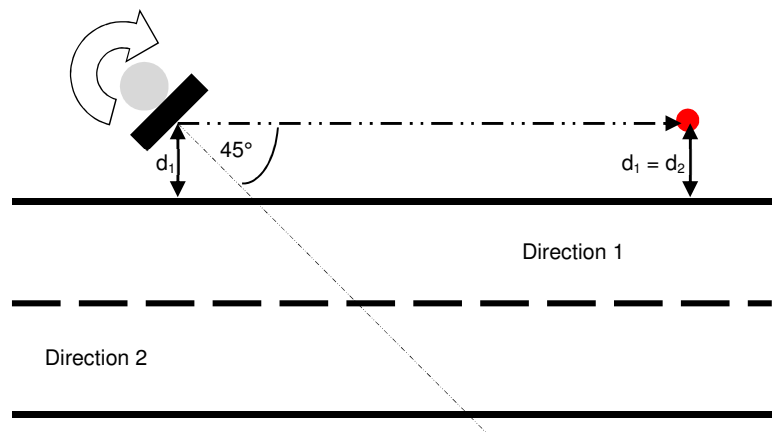
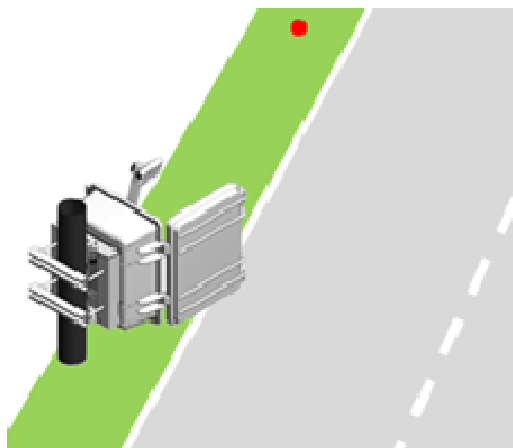




The horizontal alignment can **also** be made with the **Laser45**. This optional accessory allows the user to easily, quickly and precisely set the important 45° angle as precisely as possible.



- (i) Caution! Before starting the adjustment process, make sure to disconnect the SDR electronic from the power source.
- (ii) According to the assembly drawing (see below), measure the distance ( $d_1$ ) between the assembly position of the SDR and the road markings and position a reflector ( $d_2$ ) with identical spacing some distance away (10m to 15m).
- (iii) Attach Laser45 using a vacuum cup to the front side of the radar unit or to the Smartbracket and fix it. Switch the Laser45 on by turning the wing screw and focus the direction of the reflector roughly by tilting the laser guidance (elevation).
- (iv) Now align the rotatable combination of Laser45, SDR and / or Smartbracket such that the laser beam strikes the reflector position some distance away. This ensures a very precise **45° alignment**.
- (v) Finally tighten the assembly screws of the Smartbracket and if necessary hook in the SDR box and lock it.





## Vertical alignment

The vertical angle depends on the installation height of the SDR.

At a height of 1 m the correct angle is 90°. The angle becomes smaller as the installation height increases. The angle range goes from 45°-90°.

Should the installation height vary you can calculate the correct vertical angle via myTD – **see chapter 10.**

## Vertical alignment with use of a DataCollector:

ATTENTION! Configuration of an SDR via DataCollector is subject to the restriction that it cannot be installed higher than 2.0m (6,6 feet). The vertical angle remains 90°.

## Vertical alignment with use of an angle measuring device:



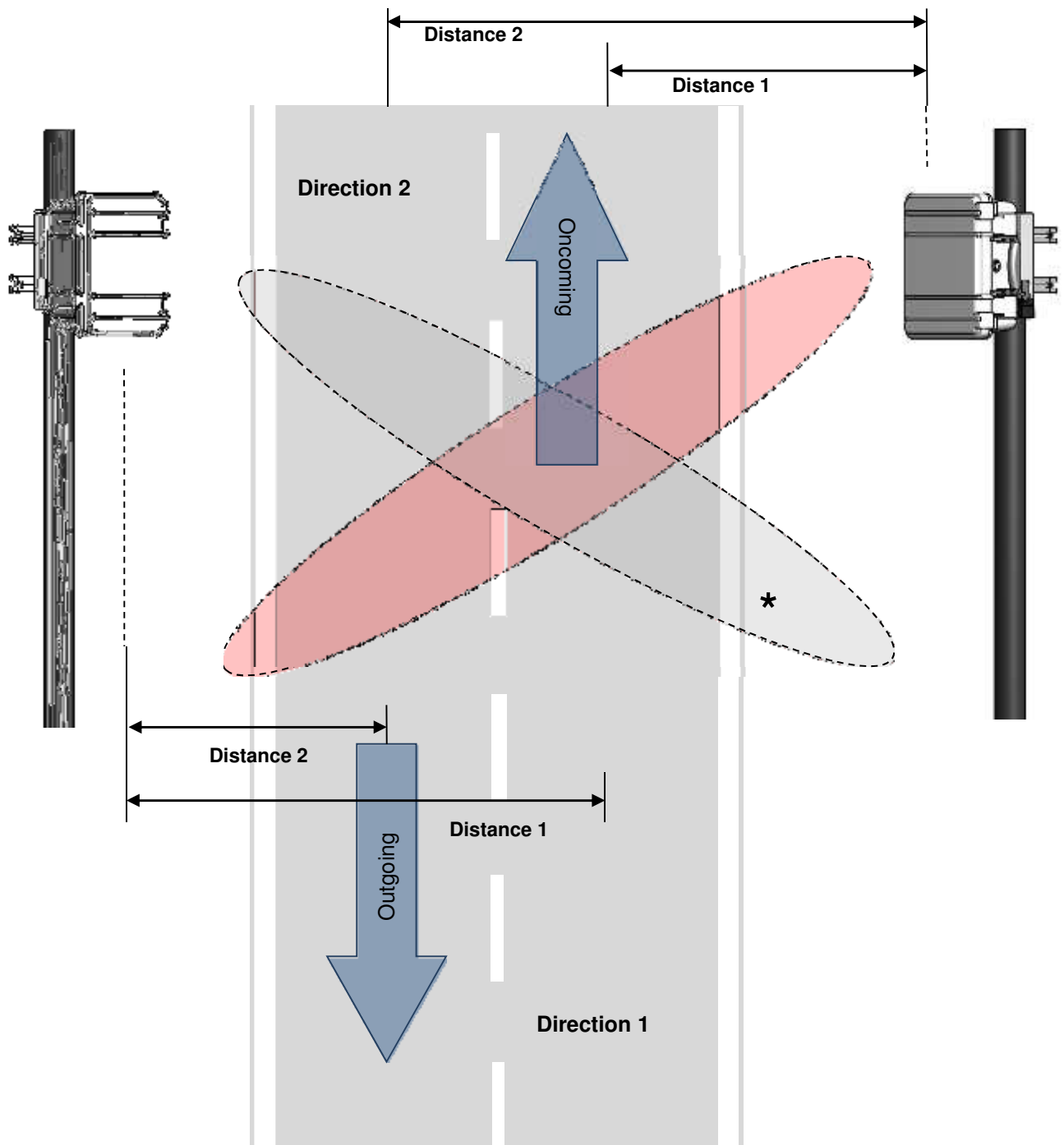




The following graphics show the different installation options.

## Installation option I

## 2 Lanes // 2 Directions (Right-hand traffic)

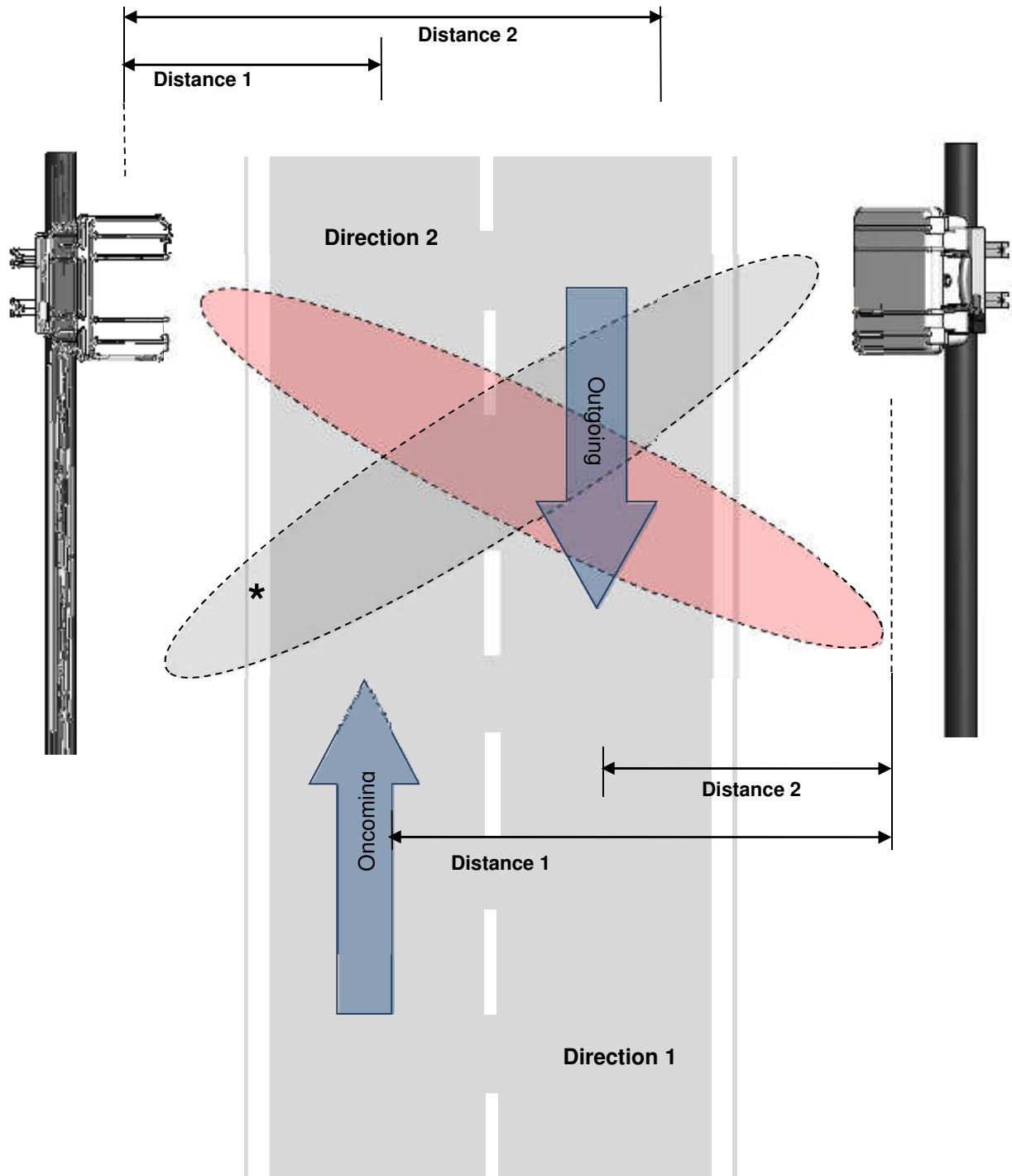


\* Alternative



## Installation option II                      2 Lanes // 2 Directions (Left-hand traffic)

Please note that lane 1 and lane 2 have now been switched. Lane 2 is now the closer lane (approaching traffic).

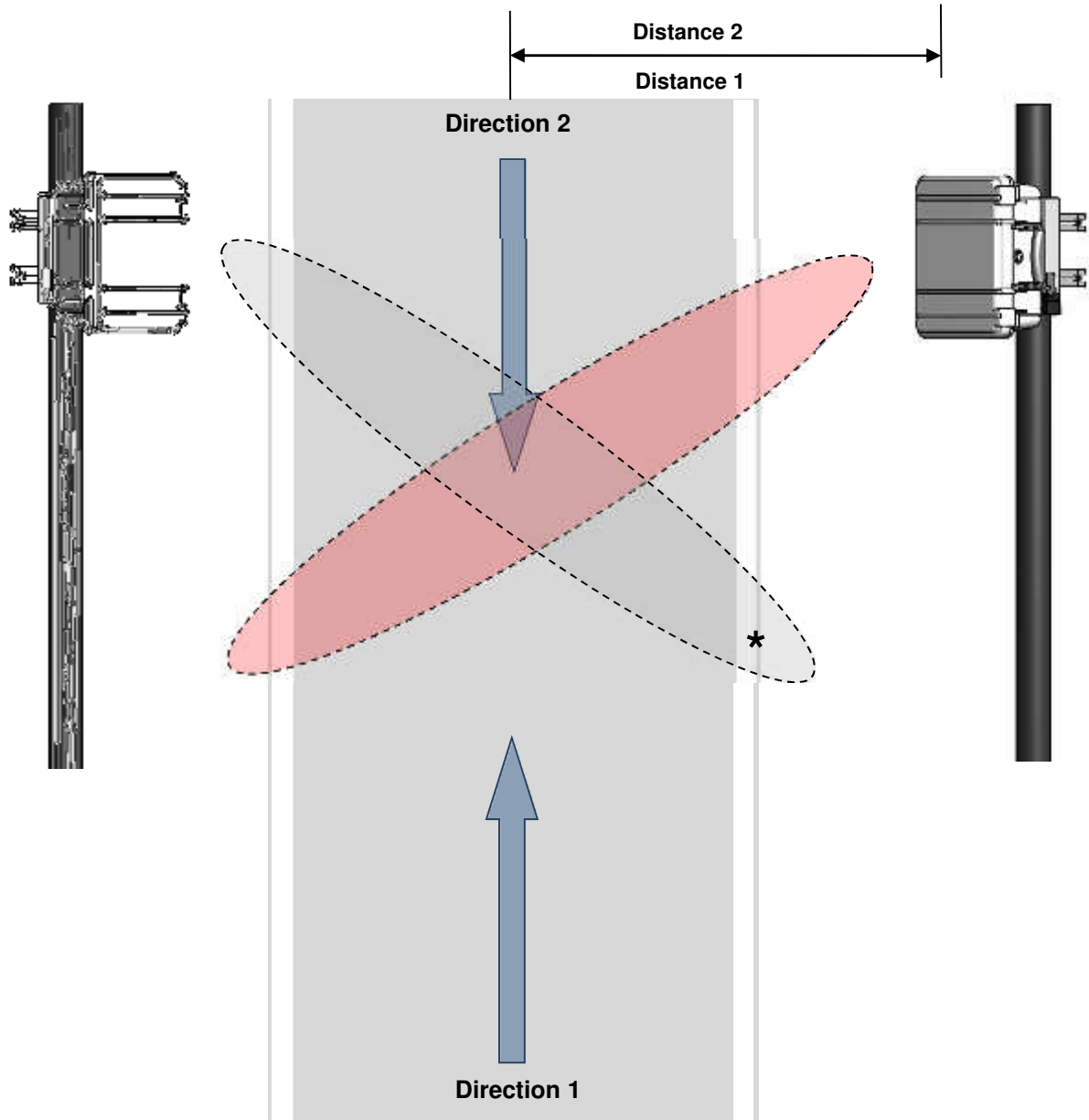


\* Alternative



## Installation option III

## 1 Lane // 2 Directions

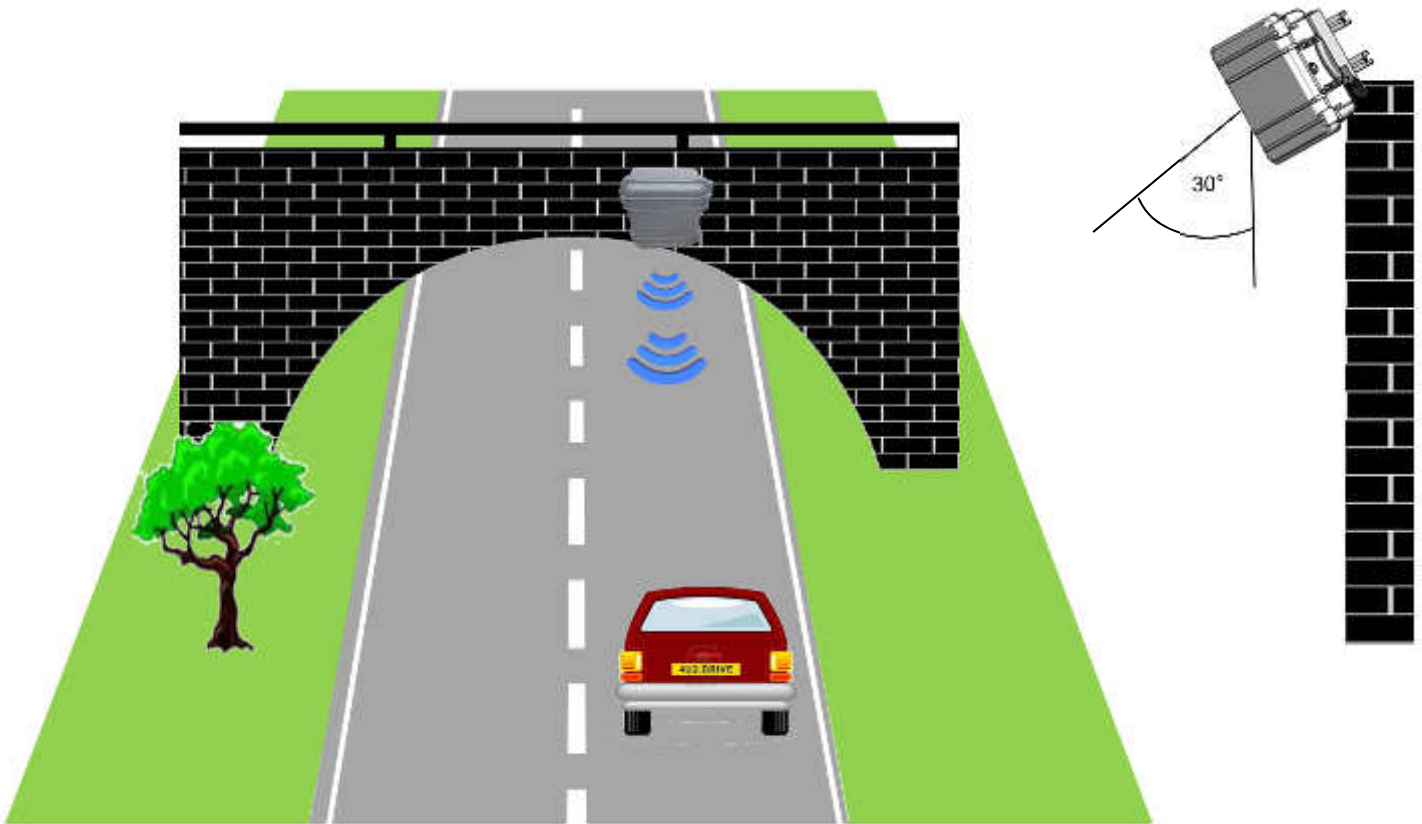


### \* Alternative

The values for distance 1 and distance 2 may be similar. If the road is wider than normal, distances 1 and 2 have to be measured.



## 7.2 Special Installation - Bridgemothing



The SDR electronic needs to be set at a 30° angle, downward frontal to the measured lane.

Tip: Tilt the SDR case for 25°-30°. The missing angular degrees can then be accurately adjusted by tilting the SDR electronic.

For detailed information regarding the settings on [www.myTrafficData.com](http://www.myTrafficData.com) please go to **Chapter 10.5**.



## 8 Commissioning

### 8.1 Power supply via AkkuPack

Please refer to the enclosed AkkuPack instruction for the maintenance and loading technology for the AkkuPack.

The standard size of the SDR accommodates enough space for the AkkuPack, which has a battery operating time which is up to 12 days (at a surrounding temperature of 20°).

For the installation of the AkkuPack inside of the SDR case first open the load securing strap. Afterwards please insert the AkkuPack in the opening and fasten the strap by pulling.

Should you wish to double the battery operating time, DataCollect offers the opportunity to increase the size of the case, so that two AkkuPacks can be inserted.



### 8.2 Power supply via PowerUnit

For the installation instructions of the PowerUnit, please refer to the enclosed commissioning instructions.

To laterally insert the PowerUnit into the deep SmartBracket, first remove the cross bar from the SmartBracket and then push the PowerUnit into the clear opening.





## 8.3 Power supply via SolarSystem + Case 1450 Solar

For the installation instructions for the please refer to the enclosed commissioning instructions. Please observe the distance from the SmartBracket of the SDR of max. 110cm.

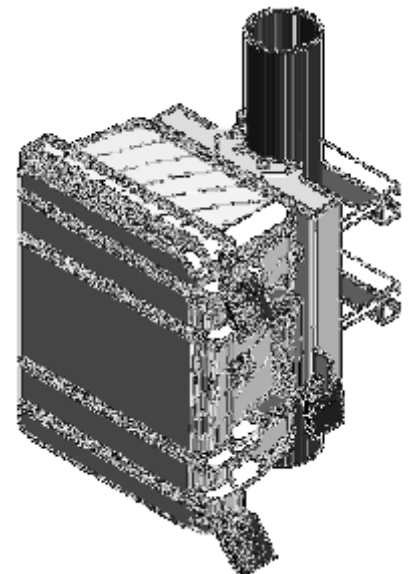


The optional solar extension cable makes it possible to extend the distance to the poles mount to a max. of 235 cm.



## 8.4 Protection against theft

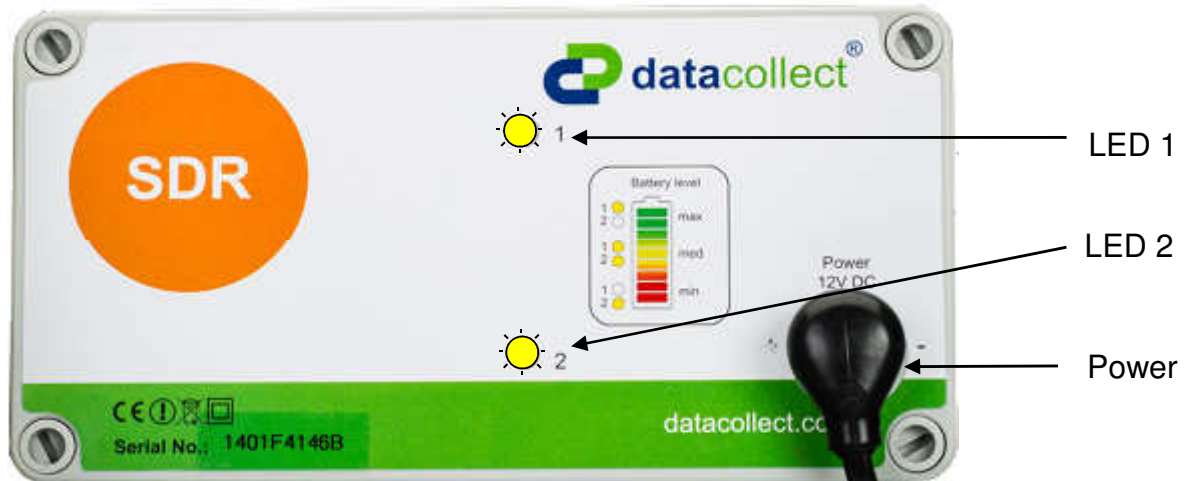
By pushing in the padlock between the SmartBracket and the SDR case, your SDR is protected against unauthorised removal. Two additional padlocks located on the handles of the case secure it against unauthorised opening. These padlocks can be optionally purchased.





## 8.5 Bootup of the SDRtraffic / SDRtraffic<sup>+</sup>

After connecting the battery to the SDR both LED will light up for approx. 10 seconds. During this time the battery voltage is checked and displayed as follows:



Option	Description
Check 1 Battery Voltage at Power supply via AkkuPack	Upper LED flashes: Charge condition: Completely charged Voltage: $U_B \geq 12,7V$ Operating Time: 18Ah up to 12 days 22Ah up to 15 days
	Both LED flash: Charge condition: Partly charged Voltage: $11,8V \leq U_B < 12,7V$ Operating Time: 18Ah between 2-6 days 22Ah between 3- 7days
	Lower LED flashes: Charge condition: Not charged, Battery almost empty Voltage: $U_B < 11,8V$ Operating Time: max. of 48 hours If the voltage drops below 10,4V the device will automatically switch off.
Check 2 Lane activity	Upper LED lit up: Lane 1 is measured
	Both LED lit up: Lane 1 and 2 are measured
	Lower LED lit up: Lane 2 is measured



## 9 Activation of the SDR via [www.myTrafficData.com](http://www.myTrafficData.com)

In order to commission the SDR, a login to [www.myTrafficData.com](http://www.myTrafficData.com) is required! If you are not yet registered, please contact our employees via [support@datacollect.com](mailto:support@datacollect.com).

**Please note!** The necessary steps of the previous chapter need only be performed **once** when setting up a **new** instrument of type SDR.

### 9.1 Activation via DataCollector





#### 9.1.1 Generation of the activation file

To activate the SDR, please connect your DataCollector to the SDR and load an instrument file to your DataCollector. This file need not contain any measuring data (only instrument data). The instrument file on the SD-Card has the ending **00000000.sdr**.

Step	Description	DataCollector Symbol	Display duration
2	Starting the device requires that you press and hold one of the two membrane buttons ( $\geq 0.3s$ (bounce time)), after which time it will perform a self-test (function test). When the SD card is inserted, the SD card LEDs will light up red.		approx.. 5sec (without SD card approx. 1sec.)
3	The intro will start in the next step – LED duration 3x.  The intro checks if all internal modules (SD card, <i>Bluetooth</i> <sup>®</sup> , battery, buttons) function properly.		approx. 2sec





Step	Description	DataCollector Symbol	Display duration
2	After the intro the white LED in the GetData button prompts you to press it by flashing.		approx. 15sec
3*	Scan for <i>Bluetooth</i> <sup>®</sup> -enabled devices (DSD, SDR) if the DataCollector's internal memory does not already show such devices. The scan process is visualised by the fast flashing of the <i>Bluetooth</i> <sup>®</sup> LED. As soon as a <i>Bluetooth</i> <sup>®</sup> contact is established to a device, the fast flashing of the LED switches to continuous illumination.		approx. 45sec
4	Communication establishment to the now connected device is shown by a slow flashing <i>Bluetooth</i> <sup>®</sup> LED.		approx. 5sec
5	Download of the system and traffic data stored in the device, storage of this data on the SD card of the DataCollector in the form of files with the extensions *.dsd // *.sdr. Now the Bluetooth and SD Card LED continue to flash slowly during the download.		approx. 20sec
7	If unable to find a device, the DataCollector will switch off automatically after 5sec.	-	-

\*If devices are already stored in the DataCollector's internal memory, the connection to a stored device will be established immediately (approx. 6s / device). The order of the devices to be contacted is defined by the list of recently contacted devices which is stored in the DataCollector. If several instruments are within the *Bluetooth*<sup>®</sup> range of a DataCollector,

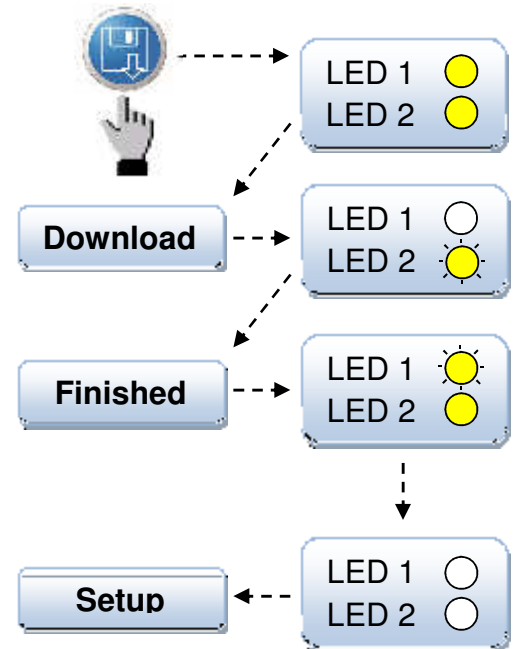


switching over between the instruments can take place as soon as the BT communication to an instrument is established – see **DataCollector Manual / Chapter 15.3**.

The establishment of the connection between the DataCollector and the instrument is confirmed by the SDR by means of the lighting up of both LEDs.

The subsequent data exchange is symbolised as a progress display by both LEDs integrated into the SDR: Bottom LED flashing 0% - 50% of the memory ► bottom LED lights up and top LED flashes 51% - 100%).

After successful completion of the data download, both LEDs of the SDR are switched off while the white LED of the Setup button on the DataCollector now flashes.

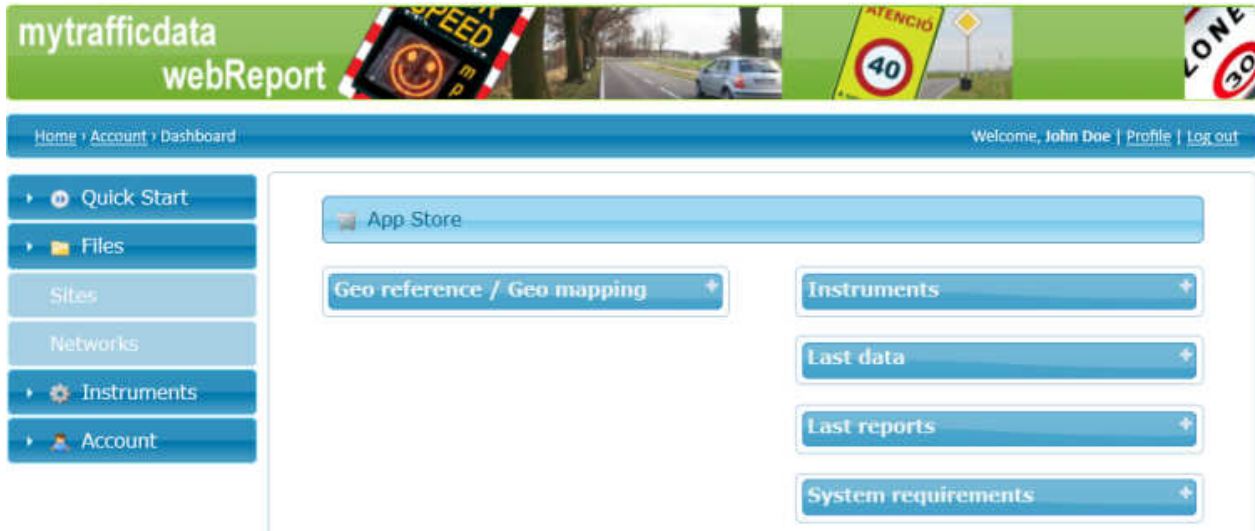


**LED off** ○ // **LED lit up** ● // **LED flashing** ☀

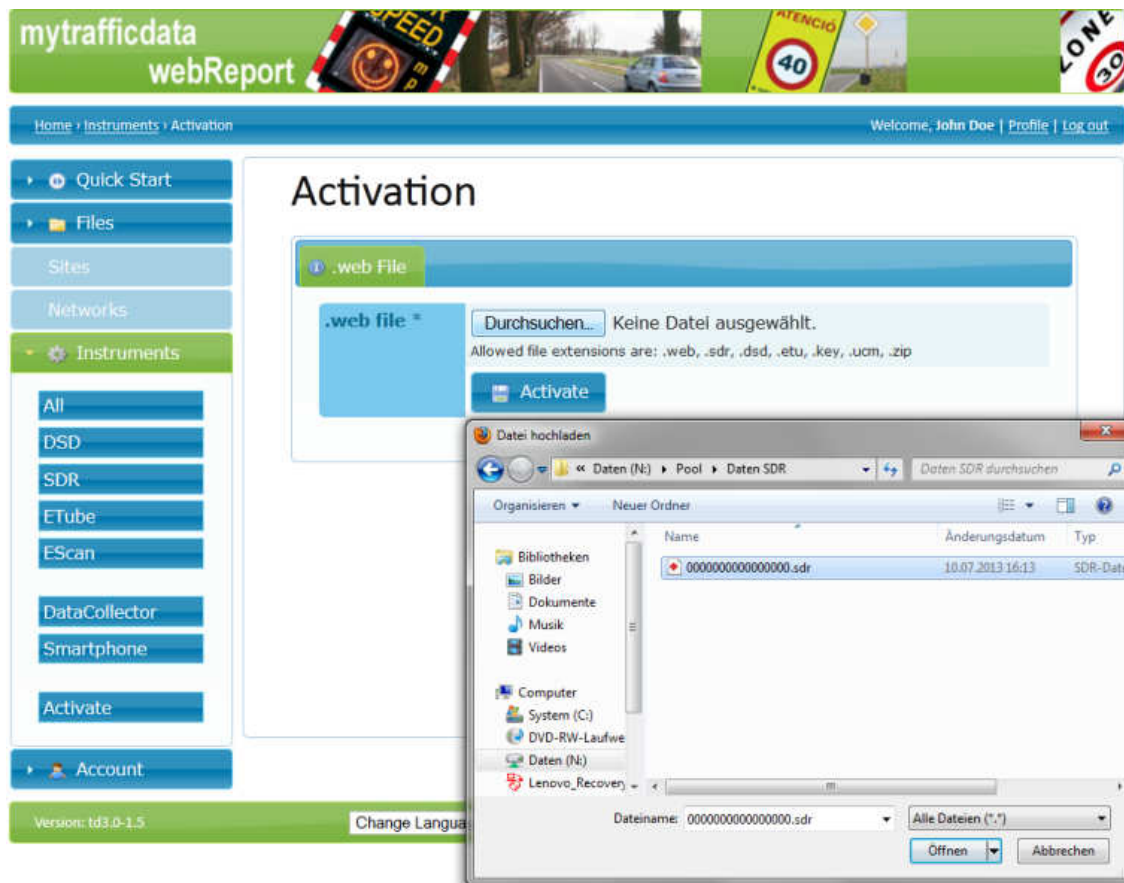


## 9.1.2 Upload of the activation file

Now you can use your login information to log in at [www.myTrafficData.com](http://www.myTrafficData.com). The first thing you see there will be the dashboard.

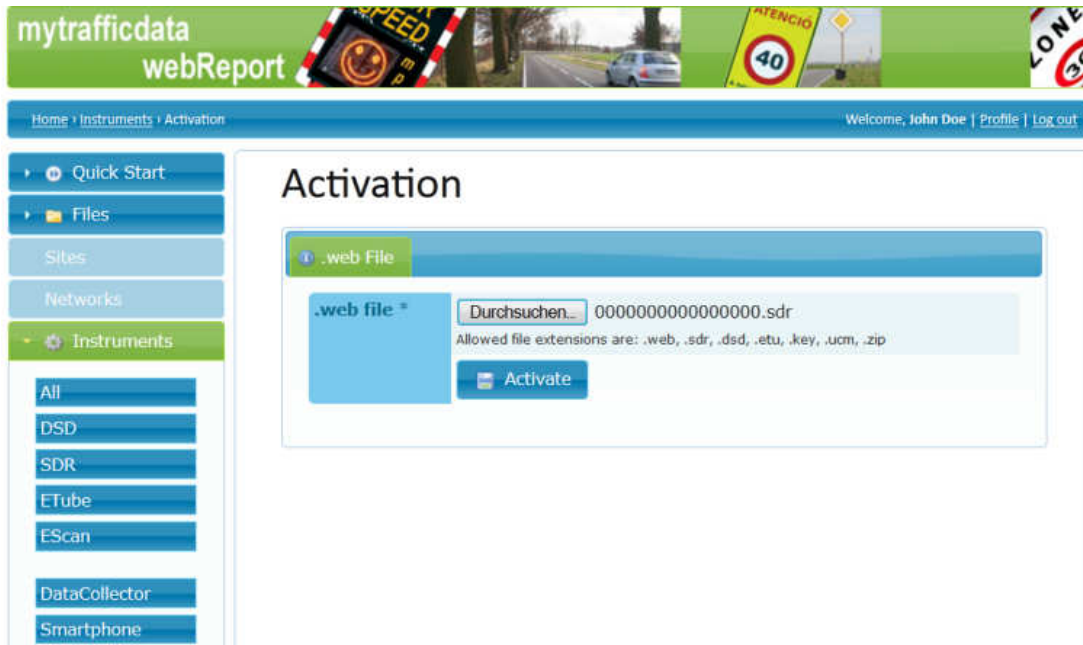


In the menu bar at the left of the screen click **Instruments**. A sub-menu opens. Now click **Activate**.





In the middle of the screen you will see a file upload area for activating your device. Now click **Browse** to select the desired file on the SD Card of the device to be activated. Now select the file you wish to upload. Confirm your selection by clicking **Open**.



After selecting the file click **Activate**.


Successful activation is confirmed via an info line (yellow). Now your SDR is displayed with the corresponding serial number.



Your SDR is now activated and ready to be set. Therefore please go to **chapter 10**.



Under Instruments / SDR you can now see your activated device ready for the setup.

Icon	Configuration number	Name	IP-Port	Activation ID	ID
	1402152728.008.038				



## 10 Parameter settings

The following section describes in detail how to setup your SDR.

If you wish to give your SDR an alias name, click the serial number to open an editable field. You can enter an alias name here. For example, you can number your SDRs sequentially. Confirm the input with Enter. The list of devices now also displays the name you assigned, in addition to the serial number.

The screenshot displays the 'mytrafficdata webReport' interface. The top navigation bar includes 'Home', 'Instruments', and '1402F4272B 00NL019'. The user 'John Doe' is logged in. The left sidebar contains navigation options: Quick Start, Files, Sites, Networks, Instruments (selected), All, DSD, SDR, ETube, EScan, NC, EGuard, DataCollector, Smartphone, Activate, and Account. The main content area shows the configuration for SDR 1402F4272B 00NL019. The 'Info' tab is active, displaying the following table:

Attribute Name	Value
Configuration number	1402F4272B 00NL019
Version	8.10
Mode of operation	Traffic
Bluetooth	yes
GPRS?	no
Relais	no

Below the table, there are sections for 'Setups (1)' and 'Upgrades'.

You can set the parameters of the SDR in the setup area. You can access this area by pressing the **Setup** tab.



## 10.1 Basic settings Panel

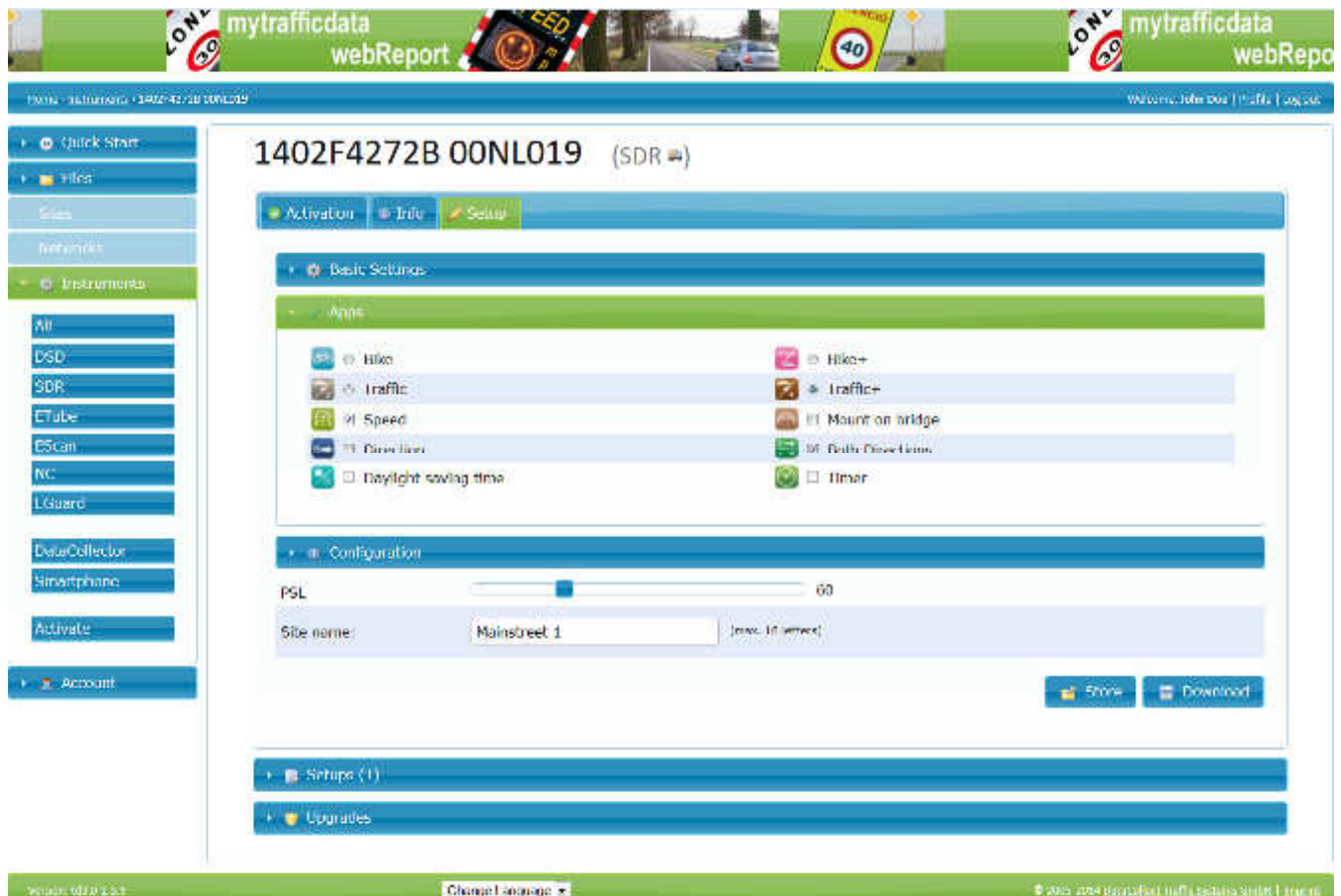
Basic setting	Description
Speed measurement	Option to switch between km/h and mph
Length measurement	Option to switch between metres and feet

The screenshot shows the 'mytrafficdata webReport' interface. The main content area displays the instrument ID '1402F4272B 00NL019 (SDR)'. Below this, there are tabs for 'Activation', 'Info', and 'Setup'. The 'Setup' tab is active, showing a 'Basic Settings' section with two rows of radio buttons: 'Speed Metric' (selected: km/h, unselected: mph) and 'Length Metric' (selected: Meter, unselected: Foot). Below this are sections for 'Apps' and 'Configuration'. The 'Configuration' section includes a 'PSL' slider set to 60 and a 'Site name' text input field containing 'Mainstreet 1' with a '(max. 16 letters)' note. At the bottom right of the configuration area are 'Store' and 'Download' buttons. A left sidebar contains navigation options like 'Quick Start', 'Files', 'Sites', 'Networks', 'Instruments', and 'Account'. The footer shows 'Version: 8.2.1.5.9', 'Change Language', and '© 2005-2014 DataCollect Traffic Systems GmbH | Support'.



## 10.2 Panel Apps

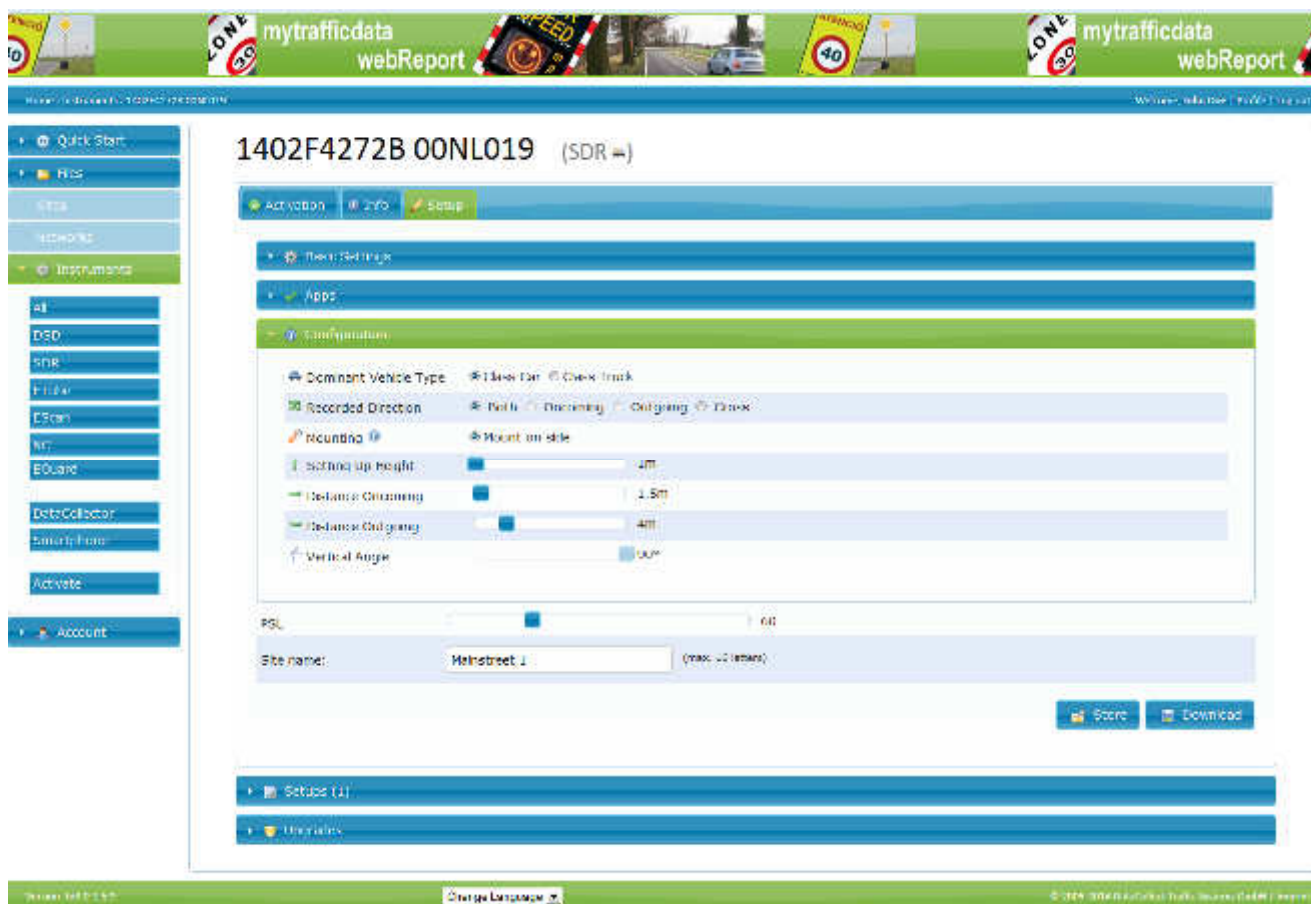
Under Apps you can select the basic functions of your SDRtraffic or traffic+. Only those functions that you purchased can be activated. An explanation of the individual functions can be found in **Chapter 5.1.1 Apps for SDRtraffic** or **Chapter 5.2.1 Apps for SDRtraffic+**.







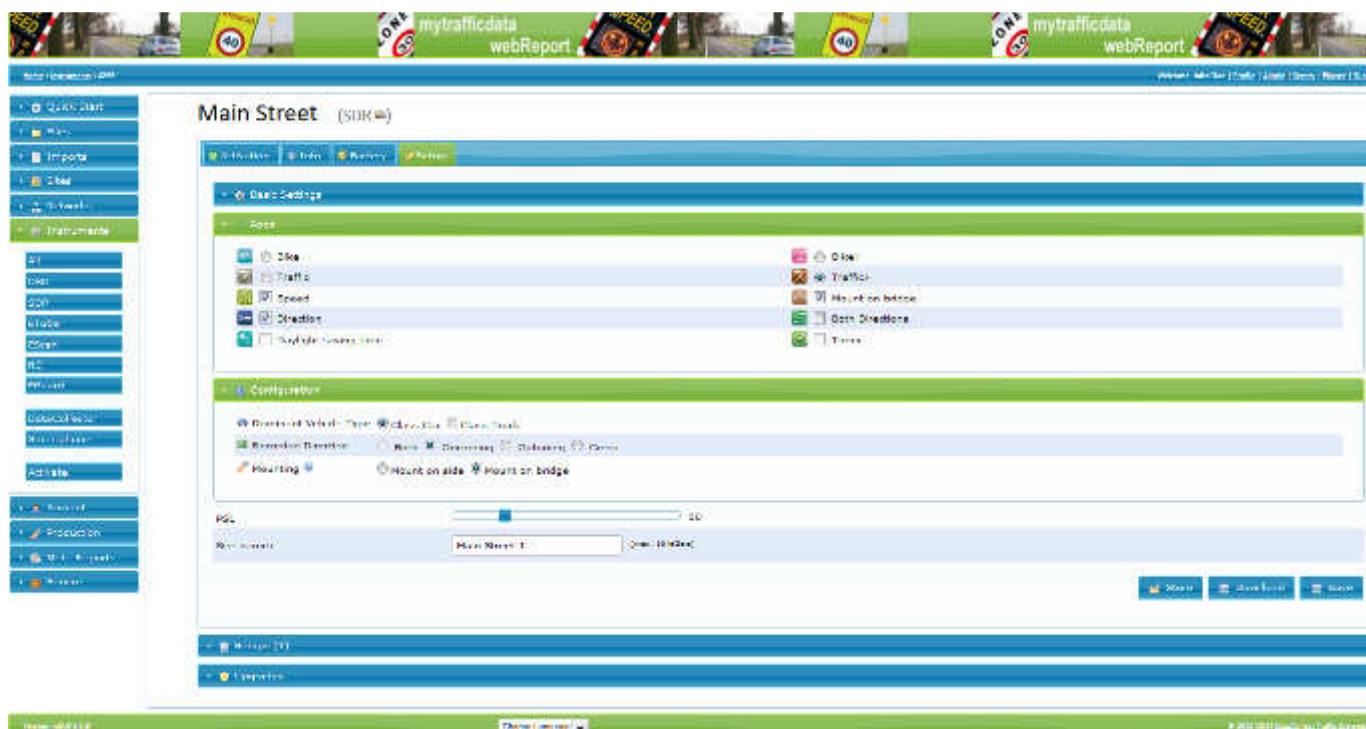
## 10.3 Panel configuration



Configuration	Description
Dominant vehicle type	Class Car / Class Truck
Direction	Oncoming / Outgoing / Cross
Mounting	For side mounting see chapter 6
Installation height	Adjustment of installation height – min 1 m
Direction Oncoming	Adjustment of distance of the oncoming lane – min 1 m
Direction Outgoing	Adjustment of distance of the outgoing lane – min 1 m
Vertical angle	Automatic calculation of mounting height and distance



## 10.4 Panel configuration – Bridgemounting



To activate the function of the Bridgemounting please click on Bridemounting in the panel Apps. After that please also click on Bridemounting in the panel configuration. The oncoming direction will be already preset.

## 10.5 PSL

You can set the speed allowed by the traffic regulations by pushing the slider.

## 10.6 Site Name

**Name:** Enter the name of the site here. It is **limited to 16 alphanumeric characters**. Do not use any special characters here, such as:

\\ \* ? < > | :



## 11 Download and transmit of the setup file




### 11.1 Via DataCollector

Create the setup file by clicking the **Download** button. The name of the setup file (stp.xxxx.sdr) must not be changed!






**Storage location for DataCollector:** DataCollector SD card

Insert the SD card with the saved setup file in the DataCollector and connect your SDR to the power supply.

Step	Description	DataCollector Symbol	Display duration
1	Performance of the intro – see chapter 10	-	approx. 2sec
2	After the intro the white LED in the GetData button prompts you to press it by flashing.		approx. 15sec
3*	Scan for <i>Bluetooth</i> <sup>®</sup> -enabled devices (DSD, SDR) if the DataCollector's internal memory does not already show such devices. The scan process is visualised by the fast flashing of the <i>Bluetooth</i> <sup>®</sup> LED. As soon as a <i>Bluetooth</i> <sup>®</sup> contact is established to a device, the fast flashing of the LED switches to continuous illumination.		approx. 45sec
4	Communication establishment to the now connected device is shown by a slow flashing <i>Bluetooth</i> <sup>®</sup> LED.		approx. 5sec



5	Download of the system and traffic data stored in the device, storage of this data on the SD card of the DataCollector in the form of files with the extensions *.dsd // *.sdr. Now the <i>Bluetooth</i> <sup>®</sup> and SD Card LED continue to flash slowly during the download.		approx. 20sec
6	In the next step the Setup button prompts you to press it by flashing.		approx. 5sec
7	The Setup file stored on the SD card of the DataCollector is now transferred via the still existing communication connection between the DataCollector and the instrument.		approx. 3sec
8	The finalisation will be automatically carried out without any further keystroke. The DataCollector automatically shuts down after approx. 5sec (Auto Off).	-	-

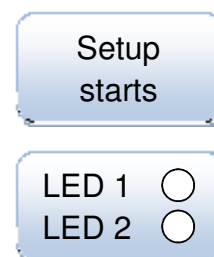
\*If devices are already stored in the DataCollector's internal memory, the connection to a stored device will be established immediately (approx. 6s / device). The order of the devices to be contacted is defined by the list of recently contacted devices which is stored in the DataCollector. If several instruments are within the *Bluetooth*<sup>®</sup> range of a DataCollector, switching over between the instruments can take place as soon as the BT communication to a instrument is established – see **the DataCollector Manual / Chapter 15.3**.



**Caution!** Setup files can only be created via your web access at [www.myTrafficdata.com](http://www.myTrafficdata.com). These files are exclusively instrument-related, i.e. you can only parameterise the respective instrument using the DataCollector, for which you have configured a corresponding *Setup file* on the web page!

Several Setup files of different instruments can be simultaneously stored on one SD card and can be consecutively transferred to the respective instrument.

When you press Setup, DataCollector starts the transfer of the setup file to the SDR. This process takes about 3 seconds. During the entire setup process the LEDs of the SDR remain switched off.



Afterwards, an **Online mode** starts for the purpose of a function check. The SDR then reports detected vehicles to the DataCollector for a period of about 2 minutes. The vehicles are then displayed based on their direction of travel, as follows:

(A) Vehicles approaching the SDR:

» **Get Data LED flashes**

(B) Vehicles moving away from the SDR (only SDRtraffic):

» **Setup LED flashes**

The online mode can be extended another 2 minutes by pressing one of the two keys (retrigger).





















If there is no setup file or no valid setup file for the connected SDR, this is indicated by fast flashing of the SD card LED. Finally, the communication is terminated. The DataCollector switches off (Auto Off) and the SDR returns to operating mode.



## 12 Read-out of data from the SDR

### 12.1 Via DataCollector

Step	Description	DataCollector Symbol	Display duration
1	Performance of the intro – see chapter 10	-	approx. 2sec
2	After the intro the white LED in the GetData button prompts you to press it by flashing.	 	approx. 15sec
3*	Scan for <i>Bluetooth</i> <sup>®</sup> -enabled devices is visualised by the fast flashing of the <i>Bluetooth</i> <sup>®</sup> LED. As soon as a <i>Bluetooth</i> <sup>®</sup> contact is established to a device, the fast flashing of the LED switches to continuous illumination.	    	approx. 45sec
4	Communication establishment to the now connected device is shown by a slow flashing <i>Bluetooth</i> <sup>®</sup> LED.	    	approx. 5sec
5	Download of the system and traffic data stored in the device, storage of this data on the SD card of the DataCollector in the form of files with the extensions *.dsd // *.sdr. Now the <i>Bluetooth</i> <sup>®</sup> and SD Card LED continue to flash slowly during the download.	     	approx. 20sec
6	The finalisation will be automatically carried out without any further keystroke. The DataCollector automatically shuts down after approx. 5sec (Auto Off).	-	-

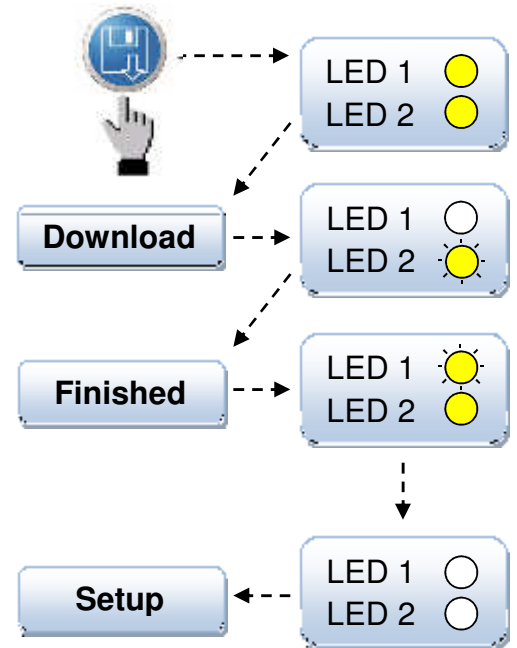


The establishment of the connection between the DataCollector and the instrument is confirmed by the SDR by means of the lighting up of both LEDs.

The subsequent data exchange is symbolised as a progress display by both LEDs integrated into the SDR: Bottom LED flashing 0% - 50% of the memory ► bottom LED lights up and top LED flashes 51% - 100%).

After successful completion of the data download, both LEDs of the SDR are switched off while the white LED of the Setup button on the DataCollector now flashes.

This enables a parameterisation (**Setup** -> see Chapter 11.2) of the instrument to be now carried out as required.



**LED off** ○ // **LED lit up** ● // **LED flashing** ☀



## 13 Evaluation via WebReport

### 13.1 Transfer of the measured data

#### 13.1.1 Via DataCollector

After transfer of the data from the SDR to the DataCollector there is a file on the SD card that contains the measurement data from your SDR. This file has the name of your measuring point and the ending \*.SDR (Example: Main Street.SDR)

For more information, please refer to the DataCollector manual.

Insert the SD card with the measurement data in a card reader that is connected to the PC. You can purchase the card reader directly from DataCollect!

Log in at [www.myTrafficData.com](http://www.myTrafficData.com) and under menu item **Quick start** select the function **WebReport on the left side.**







Click Browse and navigate to the file with the measurement data from your SDR.





## 13.2 Evaluation settings

In the next step you can make settings for the evaluation.



In the upper area you will see the line charts of the vehicle quantity and the entry and exit speed for the entire period in which the SDR was active.

Below the line chart there are two slide controllers for the limitation of the measuring period. For this, push the controller at the left and right-hand end of the blue bar.

Designation	Description
Enlarge	Zooms the line chart to the area set via the slide controller
Reset	Resets the setting for the period and zoom back to the overall data view.
Execution	Here you can select the type of evaluation generated between standard (4 pages) and extended (4 pages + one additional page each per measuring day). This function can be optionally acquired.
Start date / End date	Shows the date/time, at which the evaluation begins / ends. To adjust the start / end date push the left-hand controller of the blue bar below the line chart.
PSL	You can adjust the speed limit of the measuring point here. The value is first adopted from the loaded file, but can be changed as required.
Interval	Here you can select the time division for the aggregation.
Daily start and end time	Only vehicle data within the set time frame is considered in the evaluation. For full-day evaluation, please enter 0:00 as the start time and 23:59 as the end time.
Weekdays	Here you can select which weekdays are to be considered in the evaluation.
Speed Bins	You can create Speed class sets (see profile) which you can select here individually for your measurement.
Length Bins	You can create length class sets (see profile) which you can select here individually for your measurement.
Directions	Please choose here, which directions (oncoming, ongoing, both) shall be evaluated.

You can proceed to the next step via the **Continue** button.



## 13.3 Definition v15, v50 und v85

**v15:** Shows the speed that is **not exceeded** by 15 % of the drivers.

**v50:** Shows the speed that is **not exceeded** by 50 % of the drivers.

**v85:** Shows the speed that is **not exceeded** by 85 % of the drivers.

**Example:** You sort 100 vehicles in ascending order by speed. The speed of the 86th vehicle corresponds to the value v85. You see, therefore, whether the majority of the road users are complying with the legal speed limit.

If 85% of all vehicles comply with the maximum permissible speed, e.g. of 50 km/h, then this speed is deemed accepted by the traffic. If the value v85 is substantially higher than the maximum permissible speed, traffic planning / traffic-calming measures should be taken.

Number of vehicles	km/h	v15 not exceeded by 15%	v85 not exceeded by 85%
1	2		
2	4		
3	6		
4	8		
5	10		
6	12		
7	14		
8	16		
9	18		
10	20		
11	22		
12	24		
13	26		
14	28		
15	30		
<b>16</b>	<b>32</b>	<b>V 15 value</b>	
17	34		
...	...	...	...
85	170		
<b>86</b>	<b>172</b>		<b>V 85 value</b>
87	174		
88	176		
...	...		
97	194		
98	196		
99	198		
100	200		

You can proceed to the next step via the **Continue** button.



## 13.4 Site

mytrafficdata webReport

Home » Report » WebReport Welcome, John Doe | Profile | Log out

Quick Start

WebReport

Files

Sites

Networks

Instruments

Account

Configuration Site Author

Site name \* Main Street

Comment -

Direction incoming North

Direction outgoing South

Back Next

Version: td3.0-1.5 Change Language © 2005-2013 DataCollect Traffic Systems GmbH | Imprint

Here you can take more details of the measuring point. The measuring point name is adopted from the measuring data of the setup, but can be adjusted at this point. All fields are alphanumeric and are limited to 16 characters.

You can proceed to the next step via the **Next** button.



## 13.5 Author

mytrafficdata webReport

Home > Report > WebReport Welcome, John Doe | Profile | Log out

Quick Start

WebReport

Configuration Site Author

Institution: John Doe Ltd.

Department: Traffic Engineering

Street: Main Street 1

Postal code: 12345

City: Model Town

Country: United Kingdom

Name: John Doe

Phone: +44-1234-5678-9  
Format: +49-2273-5956-0

Email: demo@john-doe.com

Logo:  Keine Datei ausgewählt.

Back Store Download

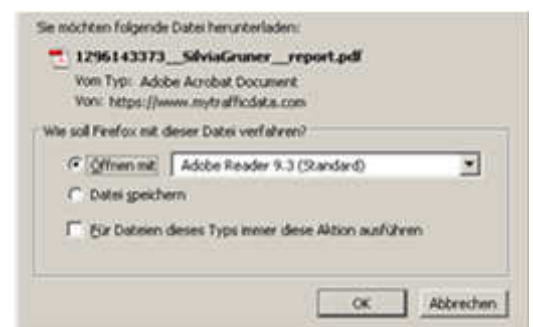
Version: td3.0-1.5 Change Language © 2005-2013 DataCollect Traffic Systems GmbH | Imprint

Here you can state details of the author, which will later appear on the report. You also have the possibility by means of Search to add your individual logo. The entries are adopted from your profile, but can be changed at random. Changes at this point are not transferred to your profile!

If you click on the **Report** button an evaluation in .pdf format is generated. You can save these on your PC. For this you require a pdf reader (e.g. Adobe Reader). If you do not have this software installed on your computer you can download it free of charge e.g. from <http://get.adobe.com/uk/reader/>.

## 13.6 Sample evaluation SDRtraffic / SDRtraffic<sup>+</sup>

After having requested the report you can directly **open** the evaluation or save it under **Save file** on your PC.





## Standard report page 1

### Traffic report

powered by datacollect

Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	United Kingdom
Contact	John Doe
Phone	+44-1234-5678-9
Email	demo@john-doe.com

Generated with **DataCollect Webreporter** version 1.0 at 12/08/2013 11:43:15

Site		Time Range	
Name	Main Street	Start date	06/03/2013 09:00
Dir. Oncoming (name)	North	End date	14/03/2013 12:59
Dir. Outgoing (name)	South	Days	Mo, Tu, We, Th, Fr, Sa, Su
Posted Speed Limit	<b>70</b>	Time Interval	60 minutes
Comment		Time / Day	00:00 - 23:59
Device type	<b>SDR</b>		

### Length Classes [L in m]

Cross-section		North	South
Time	Σ	Σ	Σ
00:00-06:00	2229	1296	933
06:00-09:00	9190	4570	4620
15:00-19:00	15543	7704	7839
06:00-22:00	48674	24223	24451
00:00-24:00	52155	26025	26130

### Calculated speeds [V in km/h]

	Vmin	Vmax	Vavg	V15	V50	V85	Vexc %
Cross-section	7	134	69	60	69	79	<b>42.8</b>
North	7	125	69	59	69	79	<b>44.6</b>
South	15	134	69	60	68	78	<b>41.1</b>

#### Descriptions

Vmin: Minimal velocity

Vmax: Maximal velocity

Vavg: Average velocity

V15: Critical velocity for the first 15% of vehicles

V50: Critical velocity for the first 50% of vehicles

V85: Critical velocity for the first 85% of vehicles

Vexc %: Speeding in %



## Standard report page 2

### Traffic report

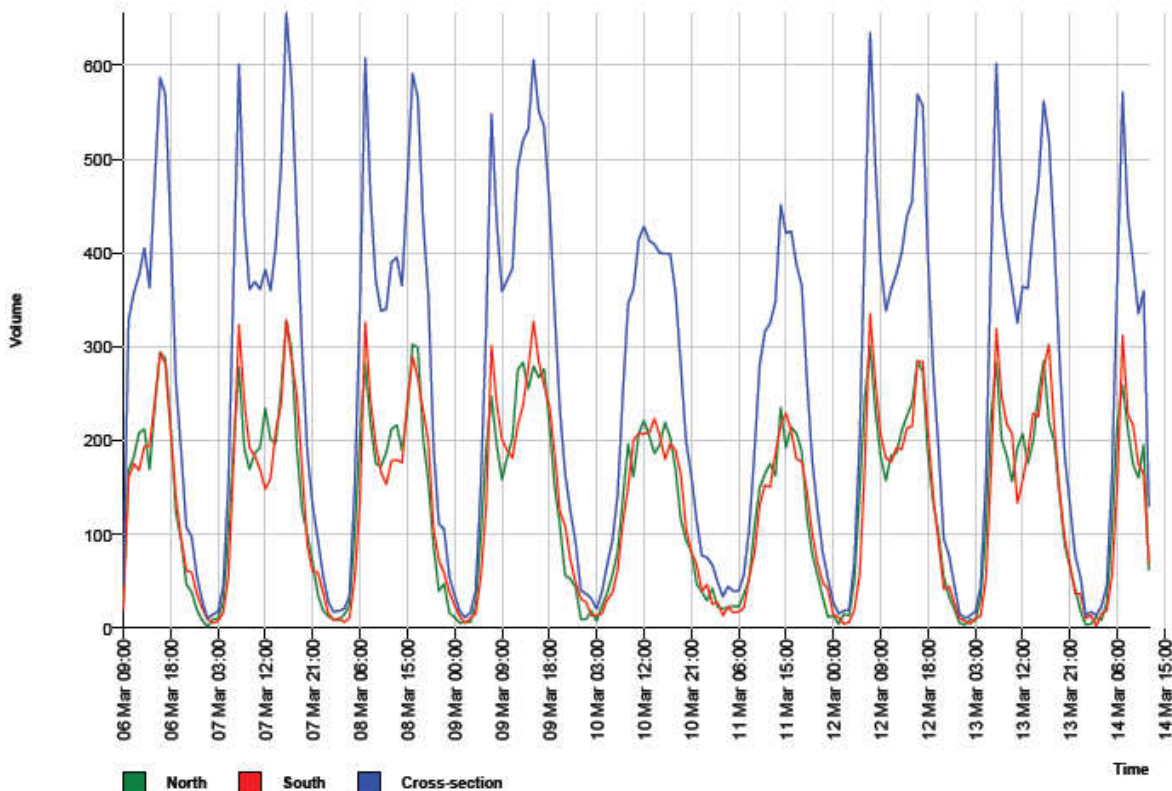
powered by datacollect

Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	United Kingdom
Contact	John Doe
Phone	+44-1234-5678-9
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 12/08/2013 11:43:16

Site		Time Range	
Name	Main Street	Start date	06/03/2013 09:00
Dir. Oncoming (name)	North	End date	14/03/2013 12:59
Dir. Outgoing (name)	South	Days	Mo, Tu, We, Th, Fr, Sa, Su
Posted Speed Limit		Time Interval	60 minutes
Comment		Time / Day	00:00 - 23:59
Device type	SDR		

### Time / Volume graph







## Standard report page 3

### Traffic report

powered by datacollect

Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	United Kingdom
Contact	John Doe
Phone	+44-1234-5678-9
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 12/08/2013 11:43:16

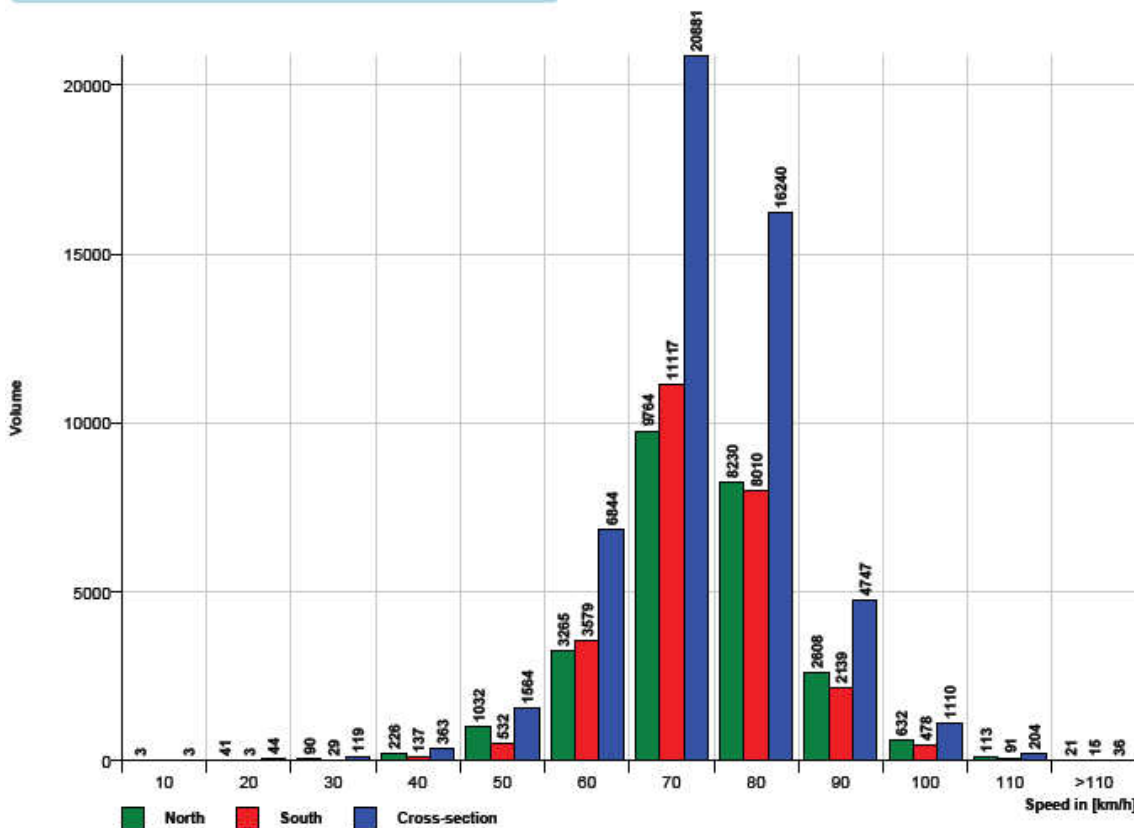
#### Site

Name	Main Street
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	
Comment	
Device type	SDR

#### Time Range

Start date	06/03/2013 09:00
End date	14/03/2013 12:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time / Day	00:00 - 23:59

#### Speed histogram





## Standard report page 4

### Traffic report

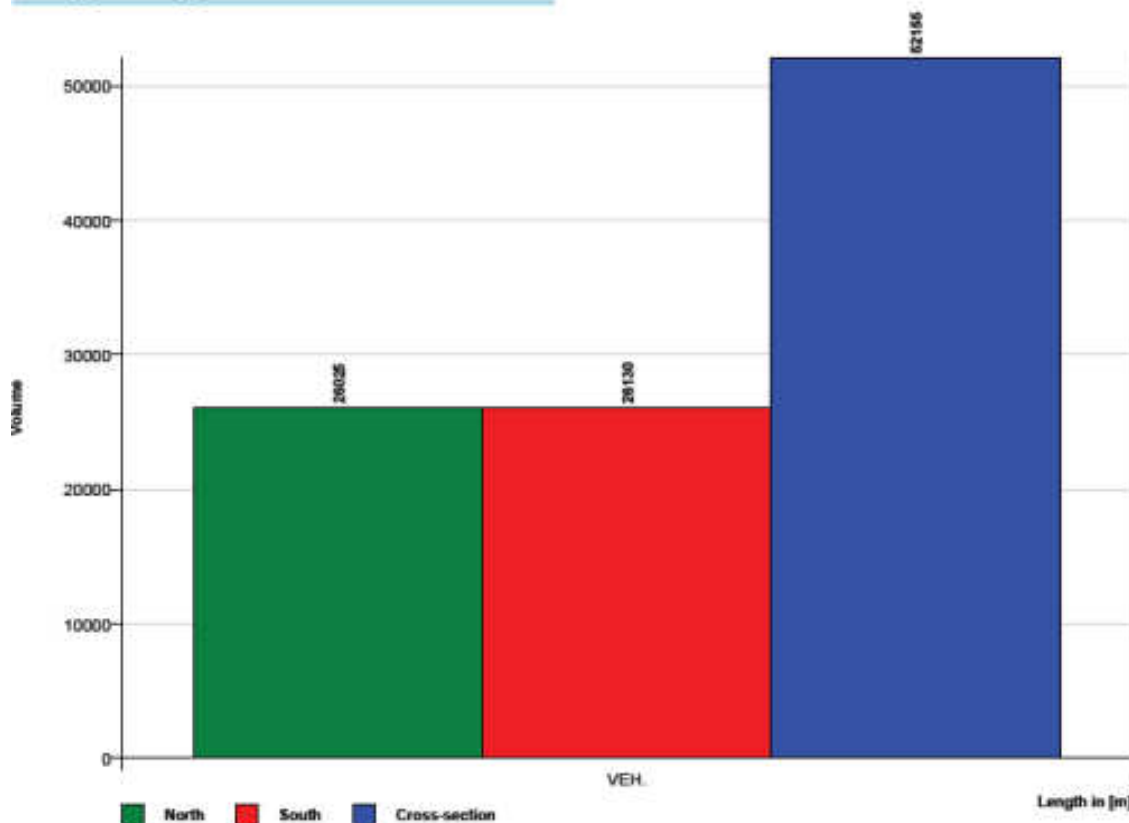
powered by datacollect

Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	United Kingdom
Contact	John Doe
Phone	+44-1234-5678-9
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 12/08/2013 11:43:16

Site		Time Range	
Name	Main Street	Start date	06/03/2013 09:00
Dir. Oncoming (name)	North	End date	14/03/2013 12:59
Dir. Outgoing (name)	South	Days	Mo, Tu, We, Th, Fr, Sa, Su
Posted Speed Limit		Time Interval	60 minutes
Comment		Time / Day	00:00 - 23:59
Device type	<b>SDR</b>		

### Length histogram





## Extended report page 5

John Doe Ltd.: SDR 1 (Direction: Both)

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Time	Σ	AUTO	LKW	LZ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85
2010-12-20 15:00	268	257	11	0	0	0	0	4	21	88	100	46	8	1	0	0	34	94	62	53	62	72
2010-12-20 16:00	422	408	12	2	0	0	0	0	19	122	186	82	11	1	1	0	45	106	64	56	64	74
2010-12-20 17:00	349	338	10	1	0	0	2	3	18	108	159	48	13	0	0	0	28	88	62	54	63	71
2010-12-20 18:00	284	277	6	1	0	0	0	1	14	86	124	54	3	2	0	0	40	93	63	55	63	73
2010-12-20 19:00	148	147	1	0	0	0	0	0	8	34	77	25	4	0	0	0	45	88	64	56	65	71
2010-12-20 20:00	120	120	0	0	0	0	0	0	4	32	57	20	7	0	0	0	45	89	64	56	64	74
2010-12-20 21:00	102	102	0	0	0	0	0	0	3	27	49	19	4	0	0	0	46	86	65	58	66	72
2010-12-20 22:00	62	61	0	1	0	0	0	0	3	14	25	18	1	0	0	1	47	115	66	57	65	74
2010-12-20 23:00	41	40	1	0	0	0	0	0	4	9	17	10	1	0	0	0	43	82	63	52	64	72

[Mon, 20 Dec.]	Σ	AUTO	LKW	LZ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85
00:00-06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00-09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00-19:00	1323	1280	39	4	0	0	2	8	72	402	569	230	35	4	1	0	28	106	63	28	59	71
06:00-22:00	1693	1649	40	4	0	0	2	8	87	495	752	294	50	4	1	0	28	106	63	53	63	72
00:00-24:00	1796	1750	41	5	0	0	2	8	94	518	794	322	52	4	1	1	28	115	63	55	63	72

Extended report page 6 (total number of pages) = 4+n, where n=number of measurement days)

John Doe Ltd.: SDR 1 (Direction: Both)

powered by datacollect

Time	Σ	AUTO	LKW	LZ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85
2010-12-21 00:00	23	23	0	0	0	0	0	0	2	3	12	6	0	0	0	0	46	78	65	59	65	73
2010-12-21 01:00	17	16	1	0	0	0	0	0	2	2	7	4	2	0	0	0	47	86	66	56	66	80
2010-12-21 02:00	28	25	3	0	0	0	0	0	2	2	11	8	3	2	0	0	46	98	71	61	70	81
2010-12-21 03:00	10	7	3	0	0	0	0	0	0	3	2	3	2	0	0	0	51	89	68	58	72	81
2010-12-21 04:00	23	16	7	0	0	0	0	0	3	4	6	8	2	0	0	0	43	86	67	58	68	80
2010-12-21 05:00	49	42	5	2	0	0	0	0	2	12	22	9	4	0	0	0	44	87	66	57	66	76
2010-12-21 06:00	152	145	6	1	0	0	1	1	13	31	73	31	2	0	0	0	27	87	63	53	65	74
2010-12-21 07:00	321	300	21	0	0	0	0	0	19	82	122	66	11	1	0	0	41	94	65	56	65	74
2010-12-21 08:00	311	293	13	5	0	0	0	0	14	60	131	85	19	1	1	0	41	107	66	57	66	76
2010-12-21 09:00	345	324	19	2	0	0	1	6	6	77	159	79	14	3	0	0	22	99	65	58	65	76
2010-12-21 10:00	358	339	17	2	0	1	0	0	12	96	141	91	16	1	0	0	16	98	65	55	65	75
2010-12-21 11:00	347	328	19	0	0	0	1	1	14	65	168	73	24	1	0	0	24	96	66	58	66	76
2010-12-21 12:00	388	367	18	3	0	0	0	4	11	91	164	86	24	7	1	0	33	101	66	57	66	76
2010-12-21 13:00	149	146	1	2	0	0	0	0	10	27	70	34	8	0	0	0	42	90	65	57	66	73

[Tue, 21 Dec.]	Σ	AUTO	LKW	LZ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85
00:00-06:00	150	129	19	2	0	0	0	0	11	26	60	38	13	2	0	0	43	96	67	43	43	43
06:00-09:00	784	738	40	6	0	0	1	1	46	173	326	202	32	2	1	0	27	107	65	27	27	66
15:00-19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00-22:00	2371	2242	114	15	0	1	3	12	99	529	1028	565	118	14	2	0	16	107	65	54	65	75
00:00-24:00	2521	2371	133	17	0	1	3	12	110	555	1088	603	131	16	2	0	16	107	65	57	66	75



## 14 Account management on myTrafficData

### 14.1 Profile



Here you will find your personal details and information on your organisation. This information is displayed in each generated report.

### 14.2 Configuration

Here you can change over between km/h and mph for the evaluation.

Furthermore you can specify another aggregate under **user-defined analysis value**, which you can then select for evaluation. Example: 35 for v35.





## 14.3 Bins

Name	Unit	Interval	Status	Actions
Default	Speed (km/h)	12 - 14 - 20 km/h 21 - 24 - 45 km/h 46 - 48 - 45 km/h 49 - 50 - 45 km/h 51 - 53 - 42 km/h 54 - 55 - 40 km/h 56 - 57 - 38 km/h 58 - 60 - 35 km/h 61 - 62 - 30 km/h 100 - 11 - 100 km/h 120 - 200 - 120 km/h 130 - 135 - 130 km/h 135 - 135 - 130 km/h	OK	+
Default	#rgb(55)	99999 - 1 - 1 km/h	OK	+
Default	#rgb(55)	1000 - 1000 - 1000 km/h 1000 - 1000 - 1000 km/h 1000 - 1000 - 1000 km/h 1000 - 1000 - 1000 km/h	OK	+

Standard bins are available. You have the choice to create a new class set, to edit available class sets or delete them. In order to create a new class set please click on the button “+speed”

### 14.3.1 Speed Bins

In order to create a new class set please click on the button “+speed”



In this form you can create a new division for the table of the **speed class** and the **speed class histogram**.

Designation	Description
Name	Name of length bin
Set as default	If this checkmark is set, the defined length bin will be the standard bin in the Webreport. Otherwise you can choose the length bin via the pull-down-menu (recommended).
Interval Name	Name of the interval e.g. private vehicle
Start (>=)	Start of the interval. Note that you must use a period/full stop (.) as the decimal separator.
End (<=)	End of the interval. Note that you must use a period/full stop (.) as the decimal separator.

**Ensure that the intervals do not overlap, e.g. if one interval ends at 2.4 the following interval must not start before 2.5.**

As soon as you have entered the values for the first interval, you will be given the opportunity to enter another interval.

One speed class set can comprise a **maximum of 12 intervals**.

## 14.3.2 Length Bins

In order to create a new class set please click on the button “+length”





In this form you can create a new division for the table of the **length class** and the **length class histogram**.

Designation	Description
Name	Name of length bin
Set as default	If this checkmark is set, the defined length bin will be the standard bin in the Webreport. Otherwise you can choose the length bin via the pull-down-menu (recommended).
Interval Name	Name of the interval e.g. private vehicle
Start (>=)	Start of the interval. Note that you must use a period/full stop (.) as the decimal separator.
End (<=)	End of the interval. Note that you must use a period/full stop (.) as the decimal separator.

**Ensure that the intervals do not overlap, e.g. if one interval ends at 7 the following interval must not start before 7.1.**

As soon as you have entered the values for the first interval, you will be given the opportunity to enter another interval.

One length class set can comprise a **maximum of 4 intervals**.

## 14.4 Change password

Here you can change your password for your [www.myTrafficData.com](http://www.myTrafficData.com) access.



## 15 Flash upgrade function

As soon as a software upgrade is available, your SDR can be upgraded via DataCollector.

After you order the software upgrade, an upgrade file is made available to you at [www.myTrafficData.com](http://www.myTrafficData.com). Log in at [www.myTrafficData.com](http://www.myTrafficData.com) and select the menu item **SDR** on the left side under **Instruments**.

Icon	Configuration number	Name	GPRS	Measuring time	Link
	1402-41-028-00M002		no		
	1501-44878-00M002	Wustles Grove	no		
	1306201177-14011	Thundervogel	no		
	1306-41085-00119	0180000000000000	no		
	0200520002-41032	Dunro Suk	no		
	0211300001-N-051	1306F4504001-019	no		
	1501-12345-N000	Street 1	no	SUN 12345	
	130620001-06050	Main Street	yes	Test Site	
	130613005-M-001	Thundervogel	yes	Test Site	

Now, select the desired device.

Attribute Name	Value
Configuration number	1310F42678-00N1-019
Version	7.4.0
Mode of operation	Traffic+
Bluetooth	yes
GPRS	no
Relais	no

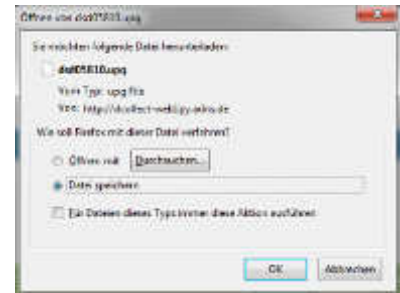
name	version	date
Device RDR 95.1	8.1	July 10, 2014, 4:39 pm

Next, click on the **Upgrade**.








A new window opens. Here, you can download the current upgrade file and save it on the SD card. You can now use the DataCollector to transfer the upgrade to your SDR.



**Attention!** Please note that the upgrade file is device-specific, i.e. it can be transferred, using the DataCollector, only to the corresponding SDR.

Step	Description	DataCollector Symbol	Display duration
1	Performance of the intro – see chapter 10	-	approx. 2sec
2	After the intro the white LED in the GetData button prompts you to press it by flashing.		approx. 15sec
3	Scan for <i>Bluetooth</i> <sup>®</sup> -enabled devices (DSD, SDR) if the DataCollector's internal memory does not already show such devices. The scan process is visualised by the fast flashing of the <i>Bluetooth</i> <sup>®</sup> LED. As soon as a <i>Bluetooth</i> <sup>®</sup> contact is established to a device, the fast flashing of the LED switches to continuous illumination.		approx. 45sec
4	Communication establishment to the now connected device is shown by a slow flashing <i>Bluetooth</i> <sup>®</sup> LED.		approx. 5sec



Step	Description	DataCollector Symbol	Display duration
5	The successful connection to the SDR is shown through a flashing of both SDR LEDs.		approx. 5sec
6	Now, the upgrade file is transferred to the DSD. This is signalled by faster flashing of the now red SD card LED.		approx. 20sec
7	This is followed by a faster flashing of the now red Bluetooth® LED		approx. 20sec
8	As soon as the upgrade process is completed the green battery LED lights up. Then the DataCollector automatically switches off (Auto off).		approx. 3sec
9	The successful upgrade is shown through a permanently lit up upper SDR LED.		approx. 3sec

After the successful update the files on the SD card will be deleted and the DataCollector automatically turns off. If an error occurs during the transfer the DataCollector indicates this by fast flashing of the SD card LED in red. In this case, you should contact the support department at DataCollect: [support@datacollect.com](mailto:support@datacollect.com)

**Do not disconnect the device from the power supply during the upgrade process! The maximum distance between the DataCollector and SDR is 10m, with eye contact.**

Finish by reconnecting the DataCollector with the SDR and downloading the latest device file. Activate the SDR again at [www.myTrafficData.com](http://www.myTrafficData.com) in order to view the current software version.



## 16 Technical data DataCollector

Technical Data	Support only for SDR Version ≥ 6.0
Bluetooth®	Class1
Range (line of vision) [m]* (clear visual contact required)	80
Baud rate [bit/s]*	115200
Download time @ 10.000 Vehicles [min]*	~1
Download time @ 50.000 Vehicles [min]*	~2,5
Download time @ 100.000 Vehicles [min]*	~6
<b>Range Bluetooth [m]*</b>	
Frontal	80
Right	50
Left	50
Rearside	50



\* Clear visual contact required  
(Line of sight)



## 17 Technical data of the SDR

Technical data	Value
Sensor:	Microwave 24,125GHz, output power 5mW, France: Limited to 24,075GHz / typ. 24,125GHz / max. 24,175GHz United Kingdom: Limited to 24,150GHz / typ. 24.200 GHz / max. 24,250GHz
Speed measuring range:	3-199km/h or 2-130mph
Weight SDR:	4,7kg (without battery)
Ambient temperature:	-20°C to + 50°C
Housing:	PP, PC
Case dimensions (WxHxD):	300 x 350 x 150mm
Units	Metrical or English (imperial)
Data rate:	up to 115200Baud
Memory:	512kB (RAM buffered) + memory card
Standard data format:	binary
Optional data format:	V, date (dd:mm:yyyy), time (hh:mm:ss), direction (single car), length
Resolution:	Speed 1km/h; Length 0,1m
Setting:	via DataCollector + SmartPhone App + myTrafficData
DataCollector BT range:	Frontal up to 80m (clear vision required)
Calibration	automatically
Installation angle:	horizontally 45°, vertically 90°-60° (adjustable)
Installation Roadside distance:	Up to 10m (without prior settings – up to 3m)
Installation height:	Up to 8m (without prior settings – up to 2m)



## 18 System requirements for [www.myTrafficData.com](http://www.myTrafficData.com)

In order to ensure pleasant working with the [www.myTrafficData.com](http://www.myTrafficData.com), you should use one of the following browsers:

- **Google Chrome** (at least version 4.0)
- **Firefox** (at least version 3.6)
- **Internet Explorer** (at least version 7.0)

The following functions should be activated in your browser settings:

- **JavaScript** (used for the interactive interface)
- **Cookies** (used for login sessions)

Furthermore, the use of one of the following operating systems is recommended:

- Microsoft Windows (at least XP)
- Ubuntu (at least version 10.0)
- Mac OSX



## 19 Frequently Asked Questions (FAQ)

### General FAQs

1. **Question:** I have registered with [www.myTrafficData.com](http://www.myTrafficData.com), but have not yet received a password.

**Answer:** Our employees must first enable you on [www.myTrafficData.com](http://www.myTrafficData.com). The password will then automatically be sent to you by e-mail.

2. **Question:** [www.myTrafficData.com](http://www.myTrafficData.com) is not being correctly displayed.

**Answer:** You have selected a secure connection to [www.myTrafficData.com](http://www.myTrafficData.com). You will recognise this by the s in <https://www.....>. In order to correctly display the website you must allow the display of mixed contents via your browser. If you do not need a secure connection, then please delete the “s” from https at the beginning of the Internet address.

3. **Question:** There are several files with measured data on my SD card – which is the right one?

**Answer:** The measured data is named after the measuring point. If a file with that name should already exist, further data is consecutively numbered.

Example:       mainstreet.sdr and mainstreet1.sdr



## FAQ DataCollector

1. **Question:** My SDR is not displayed under Instruments.

**Solution:** Make sure that you have activated your SDR properly on [www.myTrafficData.com](http://www.myTrafficData.com).

2. **Question:** Can I save setup files for several SDRs at the same time on the SD card?

**Solution:** Yes. As the setup files are instrument-specific, it is ensured that the right file is always transferred.

3. **Question: My data is not saved on the SD card!**

**Solution:** Please check whether the SD card was inserted correctly in the DataCollector. The SD card must be inserted with the printed side facing down and it must completely disappear within the DataCollector.

4. **Question:** The SD Card of the DataCollector is not writable!

**Solution:** Format the SD Card with the DataCollector (see User Manual DataCollector - Chapter – 15.1)

5. **Question:** A *bluetooth*<sup>®</sup> connection to the SDR ist not possible!

**Solution:** Delete the internal *bluetooth*<sup>®</sup> memory (see User Manuel Chapter – 15.2). Should the problem still persist please contact our Support: [support@datacollect.com](mailto:support@datacollect.com)



## 20 Disposal

Please dispose of this product at the end of its service life in accordance with the valid statutory requirements and make use of the return system for used batteries.



## 21 Protective rights

The following trade name and patent rights of DataCollect Traffic Systems GmbH are available for this product range:

Logo DataCollect



DataCollect



SmartBracket



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## **22 Certifications**

### **22.1 FCC and IC**

This device complies with Part 15 of the FCC Rules [and with Industry Canada licence-exempt RSS standard(s)].

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### **Radiofrequency radiation exposure Information:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 100cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



# EG-Konformitätserklärung Declaration of Conformity EC



Hersteller:  
*Manufacturer:* DataCollect Traffic Systems GmbH  
Heinrich-Hertz-Straße 1  
50170 Kerpen

Produkt:  
*Product:* Seitenradarmesssystem  
Movement Detection

Typ:  
*Type:* SDR (Radar/Bluetooth)

Artikelnummer:  
*Item number:* 7200-0033 / 7200-0034

Richtlinie:  
*Directive:* 1999/5/EG  
1999/5/EC

Hiermit wird bestätigt, dass das oben bezeichnete Produkt den Schutzanforderungen entspricht, die in den Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten über die elektromagnetische Verträglichkeit festgelegt sind.

*It is herewith confirmed that the above mentioned product complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member states relating to Electromagnetic Compatibility.*

## Folgende Normen wurden herangezogen:

*The following standards were applied:*


EN 60950:2000  
EN 300440-1V1.3.1  
EN 300440-2V1.1.1  
EN 50371:2002  
EN 300328 V1.7.1  
EN 301489-1 V1.8.1  
EN 301489-17 V2.1.1

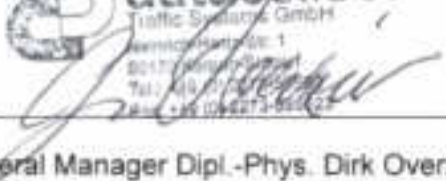
Diese Erklärung wird verantwortlich abgegeben durch:

*This declaration is submitted by:*

Kerpen, Datum 01.07.2005

Unterschrift

 **datacollect**  
Traffic Systems GmbH  
Heinrich-Hertz-Str. 1  
50170 Kerpen  
Tel: +49 2202 997-0  
Fax: +49 2202 997-200

  
General Manager Dipl.-Phys. Dirk Overzier



# EG-Konformitätserklärung *Declaration of Conformity EC*



## Anhang *Annex*

### Allgemeine nationale Hinweise (Einschränkungen) *General national Information (Restrictions)*

Bewegungsmelder Movement Detection	24,05 – 24,25 GHz 24.05 – 24.25 GHz
Land Country	Einschränkung Restriction
Frankreich France	Begrenzt auf min. 24,075GHz / typ. 24,125GHz / max. 24,175GHz Limited to min. 24.075GHz / typ. 24.125GHz / max. 24.175GHz
Vereinigtes Königreich United Kingdom	Begrenzt auf min. 24,150GHz / typ. 24,200GHz / max. 24,250GHz Limited to min. 24.150GHz / typ. 24.200GHz / max. 24.250GHz

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