



# **ARGOS Mobil / LTE 1.0**

user manual





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## 1 Intended use

The present camera-based traffic analysis system ARGOS is intended exclusively for traffic counting and analysis of traffic movements and speeds.

 The safety and operating instructions in this operating manual must be observed. Therefore, read through the complete operating instructions before using the product.

This product complies with the legal, national and European requirements. All contained product designations are trademarks of the respective owners. All rights reserved.

## 2 Safety regulations

- We accept no liability for damage to property or personal injury caused by improper handling or failure to observe the safety instructions. In such cases, the warranty / guarantee becomes void.
- For safety and approval reasons (CE), unauthorized opening, conversion and / or modification of the product is not permitted.
- The operation of this product is strictly forbidden by the manufacturer in explosion endangered zones (zone 0, zone 1, zone 2 as well as zone 20, zone 21, zone 22) according to the EU directives ATEX product directive 94/9/EC and ATEX operating directive 1999/92/EC!
- Handle the product with care. It could be damaged by shocks, impacts or falling from even a small height.
- Do not operate the product if the housing of the product is damaged.
- Use only original spare parts from the manufacturer to operate the device.
- In all other cases please contact: [support@datacollect.com](mailto:support@datacollect.com)



## 3 Scope of delivery

| Position | Quantity | Components                                           |
|----------|----------|------------------------------------------------------|
| 1        | 1        | ARGOS AI video detection system                      |
| 2        | 1        | User manual ARGOS ( <b>pdf provided via e-mail</b> ) |
| 3        | 1        | Telescopic pole                                      |
| 4        | 1        | Battery case with pole mount                         |
| 5        | 2        | Straps incl. key                                     |
| 6        | 1        | Spirit level                                         |
| 7        | 1        | Angel finder                                         |
| 8        | 2        | Ratchet                                              |
| 9        | 2        | Bit attachment                                       |
| 10       | 3        | Keyed alike locks                                    |
| 11       | 1        | Closure cap plug                                     |

### 3.1 Accessories



Accessories bag incl. accessories according to scope of delivery



### 3.1.1 Lead-gel battery

This maintenance-free 12V/18Ah lead-gel battery enables mobile operation. Up to 4 can be inserted into the battery compartment of the system case. The capacity of 4 batteries is sufficient for an operation of approx. 30 hours. Charging is done by DataCollect charger within 24 hours.



### 3.1.2 Lithium-ion battery

This maintenance-free 12.8V/30Ah lithium-ion battery enables mobile operation. Up to 4 can be inserted into the battery compartment of the system case. The capacity of 4 batteries is sufficient for an operation of approx. 70 hours. Charging is done by manufacturer charger within 6 hours.





## 4 Installation location

Please select a twist-proof, stable pole (e.g. street lighting / traffic sign) with a minimum diameter of 60mm to which the ARGOS system is attached. The base for the stand must be solid. The extended pole must be vertical and must not extend into the road space or have a tendency to tip over.



For reliable detection in darkness, passive light (e.g., in the form of a street lamp) is required.

When aligning the ARGOS, make sure that there are no obstacles such as lamps or traffic signs in the way when extending the mast.

Make sure that the pole to which the system was attached does not appear in the view of the extended device, as shown in the following example.





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One ARGOS system can very well detect intersections with a maximum size of 47 m diagonally. Ideally, the ARGOS should be positioned 3 to 4 m from the edge of the carriageway. For some turning lanes, it is recommended to set up the ARGOS on the opposite side of the intersection.

For larger intersections, especially with obscuring objects in the middle of the intersection (e.g. tramways), it is recommended to set up two ARGOS at opposite points (see green markings in figure). This ensures reliable detection of all traffic in the intersection.





## 5 Assembly

### 5.1 Attaching the telescopic pole

Place the battery case on the two metal brackets. Pull the lowest, movable segment out of the telescopic pole only so far that you can still read the angle with an angel finder above or below the camera, after it has already been attached (more on camera mounting under **5.3**) and the system is vertical on e.g. a lamppost. Now fix the segment. Then open the clamps on the case and place the telescopic pole in the opened clamps. Make sure that the cable gland of the pole and the cable gland of the case are on the same side. Close and screw the clamps to the case.



### 5.2 Attaching on fixed pole

Place the case with telescopic pole parallel to the lamppost, for example. Align it vertically and ensure a firm stand. Then guide the straps around the lamppost and fasten them to the metal brackets of the case. The handles on the straps should be removed.





## 5.3 Camera installation

Fix the camera in the holder provided for this purpose at the top end of the telescopic pole and clamp it firmly. Connect the cable gland of the pole to the connection at the rear end of the camera. The orientation of the tilt angle of the camera depends on the distance of the ARGOS to the intersection, as well as on the intersection size. More on this in section 8.5.

After optimal alignment, measure and note the set angle using the angle finder. The angle is needed when configuring the measurement. A 23° angle is optimal in most cases (maximum 47m intersection size and mounting 3-4 meters from the intersection). Therefore, there is a triangular mark at the bottom of the adjustable camera mount, as well as at the top of the camera mount on the pole. If you align these by tilting the camera mount, the camera will be at a 23° angle.

However, the angle must always be selected so that the entire traffic scene can be overlooked. At a further distance from the area to be measured, a smaller tilt angle of the camera may be required to ensure optimum detection quality. At a smaller distance from the area to be measured, a larger camera tilt angle may be required. To adjust the angle of the camera, open the silver screw on the side of the camera mount. Now you can tilt the mount up and down by turning the long, silver screw below/behind the camera mount. Then close the silver screw on the side of the camera mount again.



23° mark



Screw for adjusting the tilt angle



## 5.4 Extension of the telescopic pole

Start to extend the telescope manually. Do not loosen the top segment that secures the camera mount. Slightly loosen the segment below it and pull the pole out to the red mark. Then lower the segment again slightly until the red mark disappears. Now tighten the clamp. Repeat this process until all segments have been fully extended. The telescopic pole can also be extended and retracted if the ARGOS already has a power supply.



**CAUTION:** If you accidentally pull out a segment completely, please disassemble the system again and retract the pole completely. Afterwards, the telescope segments are correctly aligned again.



## 5.5 Securing the entire system

Screw the cable gland of the battery box to that of the pole and make sure that they are tightened. Place the plug box around the screw connection and close it. Finally, secure it with one of the 3 included locks against opening by third parties. In addition, we recommend securing it with a steel chain that encloses the system in its entirety.



Cable gland pole and case



## 6 Start-up

### 6.1 Energy supply via battery

The charging technique, as well as the maintenance of the battery pack, can be found in the enclosed instructions for the battery pack.

Place up to 4 batteries in the designated spaces in the battery case and plug the connectors into the designated terminals.

With 4 battery packs you can perform a count of approx. 30 (lead-gel) or 70 (lithium-ion) hours. The batteries are discharged one after the other. The state of charge is indicated by the respective LEDs in the front panel of the battery management system (BMS).

**red = discharged**, **green = full**, **flashing green** is the battery supplying power. If a battery pack is empty, you can replace this during operation. If you do this, make sure that at least one battery pack that is not completely discharged is always connected. After replacing the battery, please select the "Battery replaced" button in the ARGOS dashboard.



**Only use batteries purchased from DataCollect, as the battery management system (BMS) is specifically designed for these batteries.**

**Please also observe the following care instructions. Failure to observe these care instructions will result in increased wear (loss of capacity) of the battery up to an irreparable defect (total failure)!**



## 6.2 Care instructions

- Do not deep discharge the battery.
- After use, the battery must be charged before storage.
- Even when not in use, the battery must be charged once a month.

## 6.3 Battery management system settings

Set the type of batteries used on the battery manager.

**It is not possible to mix lithium and lead-gel batteries.**

The charging status of the batteries can be seen at the connections by color.

**Green = full**

**Red = empty**

**Green flashing = currently active battery**

After setting the battery type and establishing the power supply, press the on/off switch.

Then close the case and secure it with the 2 remaining locks provided.



## 7 Activation of ARGOS

The activation of the ARGOS on your account on [www.myTrafficData2.com](http://www.myTrafficData2.com) is already done in advance by DataCollect or your distributor.

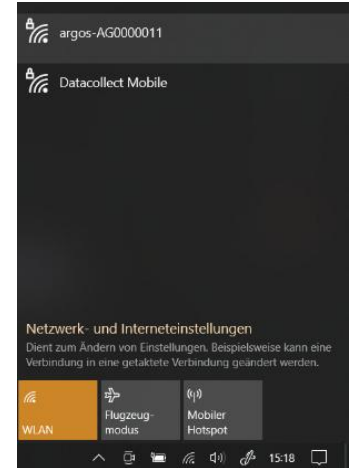


## 8 Connecting to ARGOS

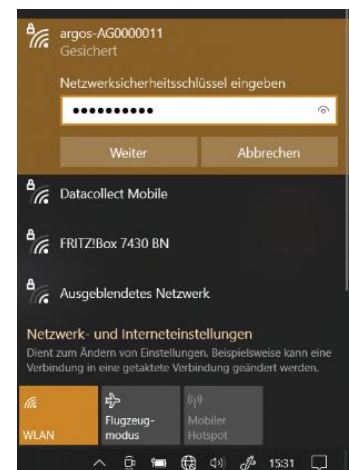
### 8.1 Connecting to ARGOS via WiFi

After starting the ARGOS, please wait 5 minutes until connecting to the WiFi network.

Search for a WiFi network with your programming device (e.g. notebook or tablet). The name of the network is also the serial number of the ARGOS.

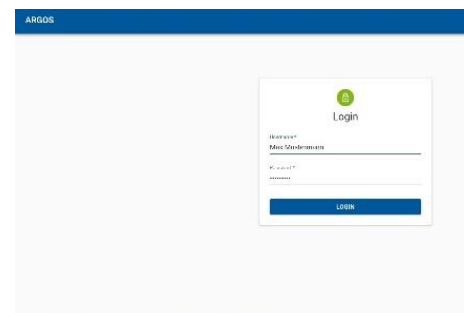


Select the ARGOS network. Now select the login by network key (**not by PIN!**) Enter the WiFi password (communicated by the sales department before delivery of the ARGOS) and connect to the WiFi.



Open a browser (we recommend Chrome) and enter the IP `argos.datacollect.com` or the IP address `192.168.155.1` in the address bar. This will open the ARGOS login page.

Now log in to the ARGOS. The login data required for this (username and password) were sent to you by the sales department by e-mail before delivery of the ARGOS.





## 8.2 Connecting to ARGOS via LTE

After starting the ARGOS, please wait 10 minutes until connecting to ARGOS via LTE.

Log in to the Internet browser at [www.mytrafficdata2.com](http://www.mytrafficdata2.com). This can also be done by your colleague in the office. Make sure you have an active internet connection.

Click on the "Measuring instruments" tab at the top and navigate to the ARGOS you want to connect to and click on "Connect".

[Start](#) > [Measuring instruments](#) > [Edit](#)

Properties

Configurations 0

Patches 0

argos #AGL000004

Measuring instrument

---

Base data

Instrument type argos

---

Status

Operation mode mobile\_online

WiFi SSID argos-AGL000004

WiFi password 3QUhbgHWl6AK3vyV

---

Teltonika RMS

Connection To RMS Not Connected

Connection Open Until Not Connected

Connect

Another window opens with the ARGOS login prompt.

ARGOS

Login

Username\*

Mobile Number\*

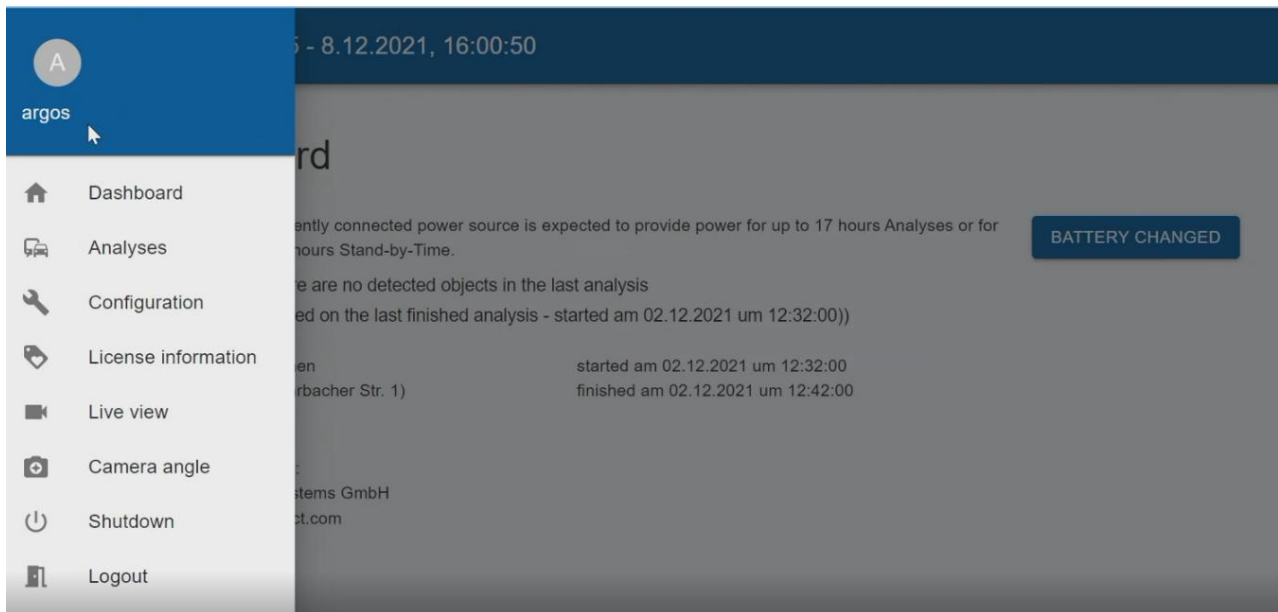
Password\*

Login

Now log in to the ARGOS. The login data required for this (username and password) were sent to you by the sales department by e-mail before delivery of the ARGOS.



## 8.3 Basic settings of ARGOS



Under Configuration, please specify the number and type of batteries used.

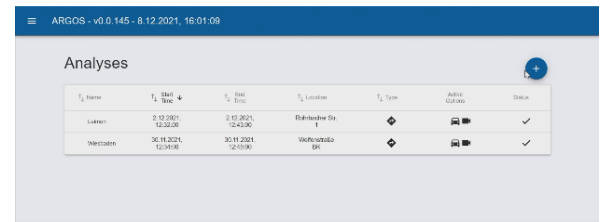
Under “Live view” you can see the current camera image. You can still change the field of view of the ARGOS by rotating the pole by loosening the lowest segment, rotating it and tightening it again. Please observe the notes in chapter 8.7 for the optimal alignment of the camera. After leaving the live view by pressing the ESC key, enter the previously set camera angle.



### 8.4 Creating a measurement

Select the *Analyses* menu item.

Click the "+" button in the upper right corner.



Enter the data of the measurement.

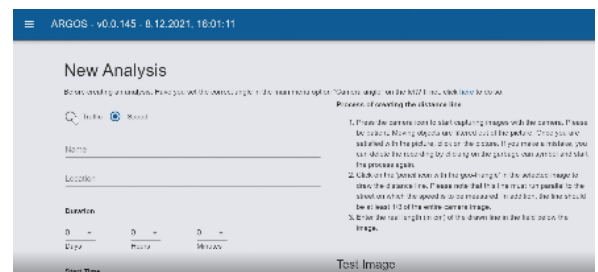
**There must be a break of at least 5 minutes between the time of setting and the start time of the measurement, as well as between two successive measurements.**

You can also choose whether "Tracking", "Video" or both should be activated.

#### Example:

If you want to perform a count over 1 day with a video you need to set up 1 measurements like this:

Measurement: xx.xx.xxxx Start 0.00 to 9.00 Tracking + Video

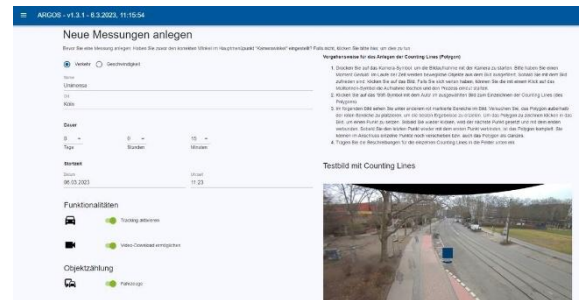


**Make sure that no measurements overlap!**



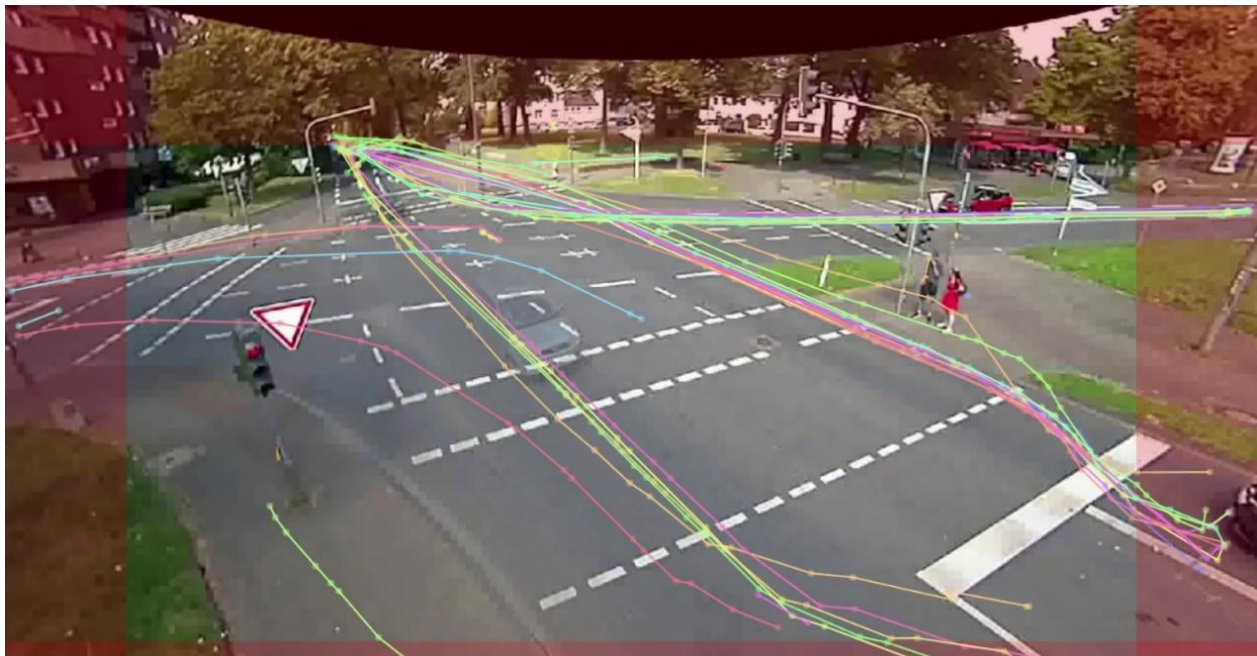
### 8.5 Marking the counting lines

Click on the camera icon at the bottom right. Now a screenshot of the current live image is generated. The ARGOS will now also start projecting the trajectories as colored lines in the screenshot. The shown lines do also count for pedestrians. The loading circle does not have to disappear, you can alternatively press the button with the stop symbol (square), but the longer the screenshot is generated, the more trajectories are shown, and the quality of the screenshot gets better.



If the image on the screenshot of the camera is not optimally aligned, please retract the pole again and readjust the angle of the camera accordingly. You will find information about the optimal alignment of the camera in chapter 8.7. After changing the angle, enter the new angle under the menu item *Camera angle*.

#### Example trajectories:



Before you set the counting range of the ARGOS, please read carefully the following instructions for setting the range:

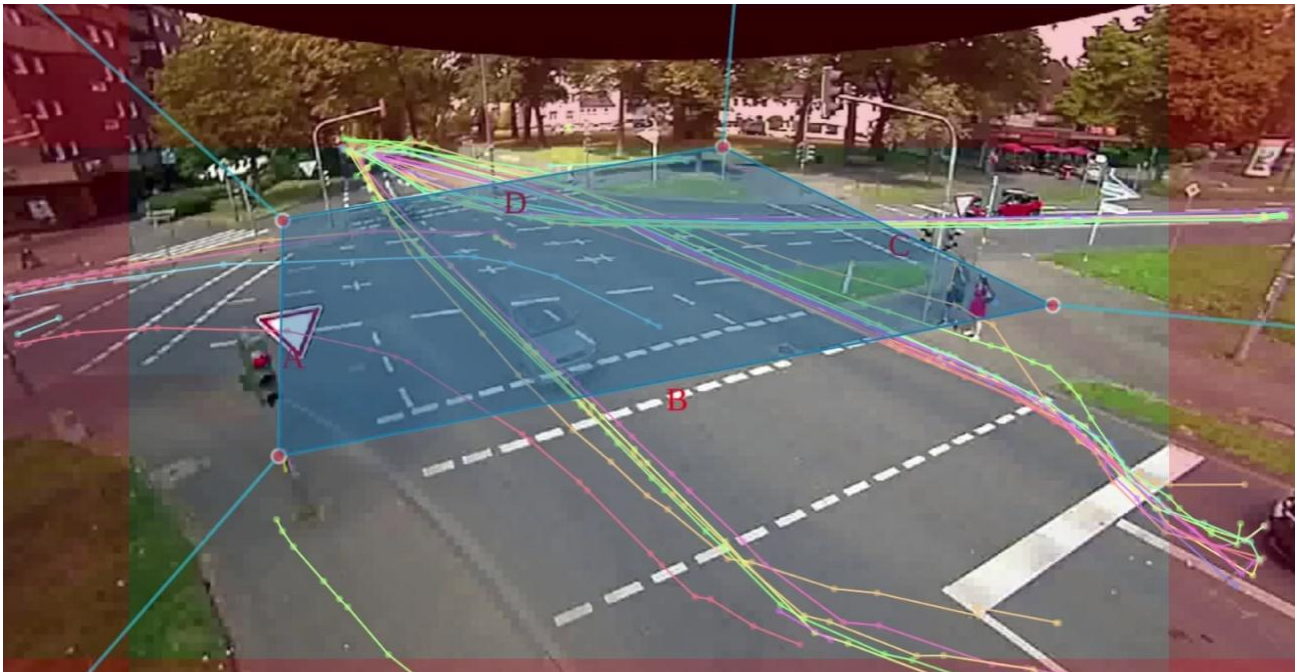


### 8.5.1 Explanation vehicle-polygon

For vehicle counting, the system uses one single polygon drawn in the screenshot of the measurement point. After that, areas in front of each drawn line are generated automatically. These are marked with blue lines going out of the red dots on the corners. Each count of a single vehicle is considered valid if it starts within one of the generated areas and ends within another generated area. The count uses only the first and the last point of the vehicle movement.

To increase the probability that both points (first/last point of vehicle movement) are in two different generated areas, the areas should be as large as possible. Therefore, the drawn polygon should be as small as possible and in the center of the image / of the intersection.

#### Example:

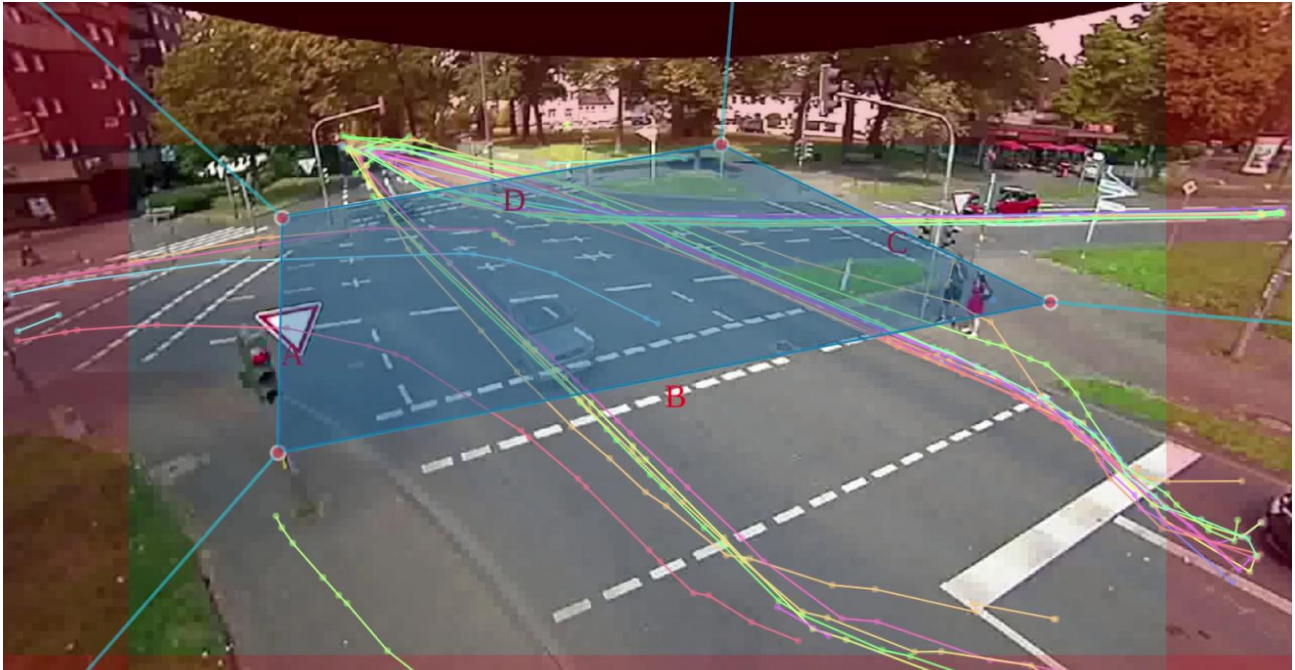


The counting lines were drawn in such a way that the generated areas can comprehensively cover all vehicles on the respective lanes. To check if your counting areas are covering the desired areas, make sure the trajectories lay inside the generated areas in front of the blue polygon.

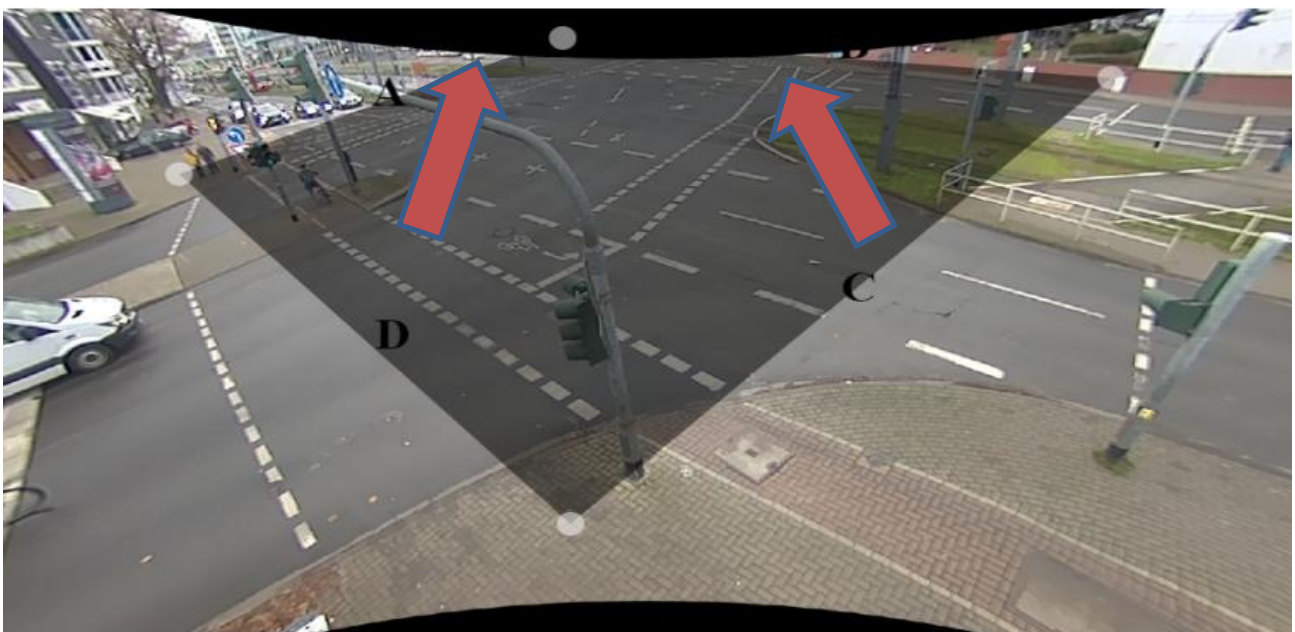
### 8.5.2 Setting up vehicle-polygon

Click on the pencil icon to draw the counting lines. Click the bus icon above the screenshot. Draw the necessary counting lines. Please note the above instructions for counting the traffic, as well as the following instructions for drawing the vehicle polygon.

**To complete the polygon, click the first point you set (the beginning of the first counting line).**

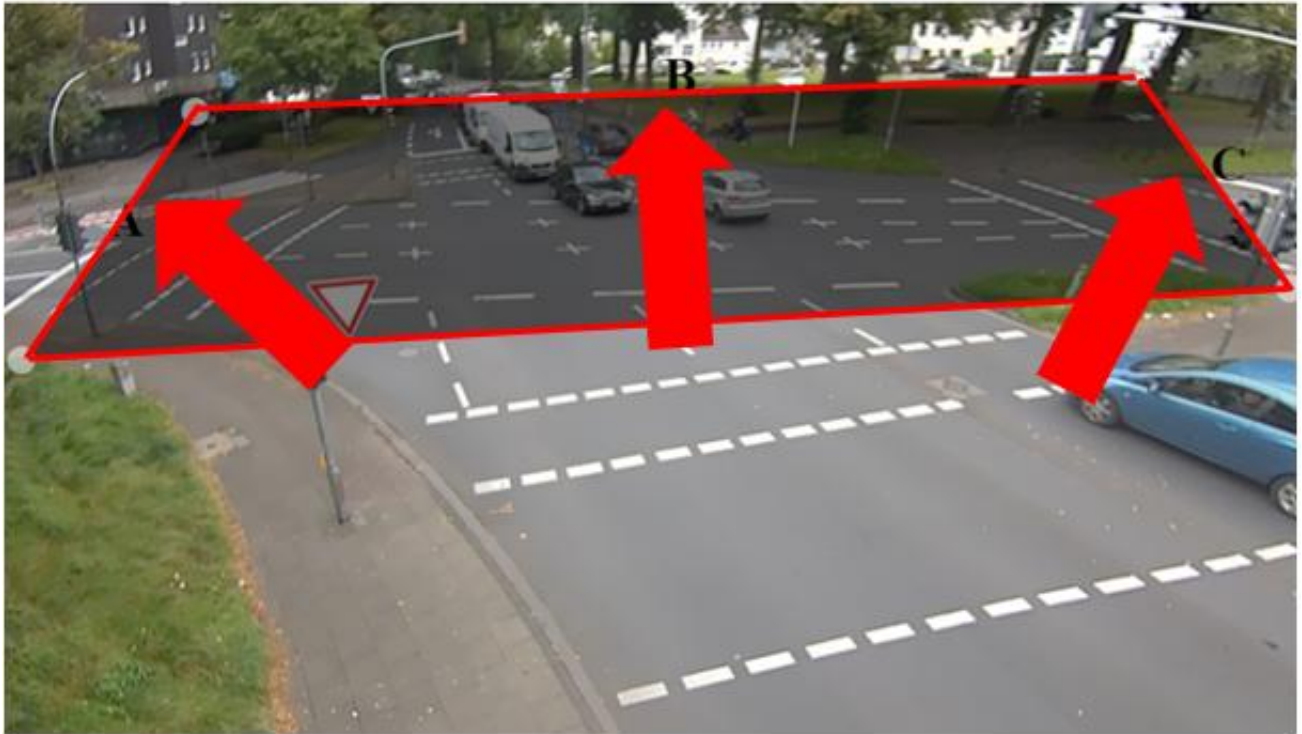


All entrances should be clearly visible and not at the very edge of the image as in the example.

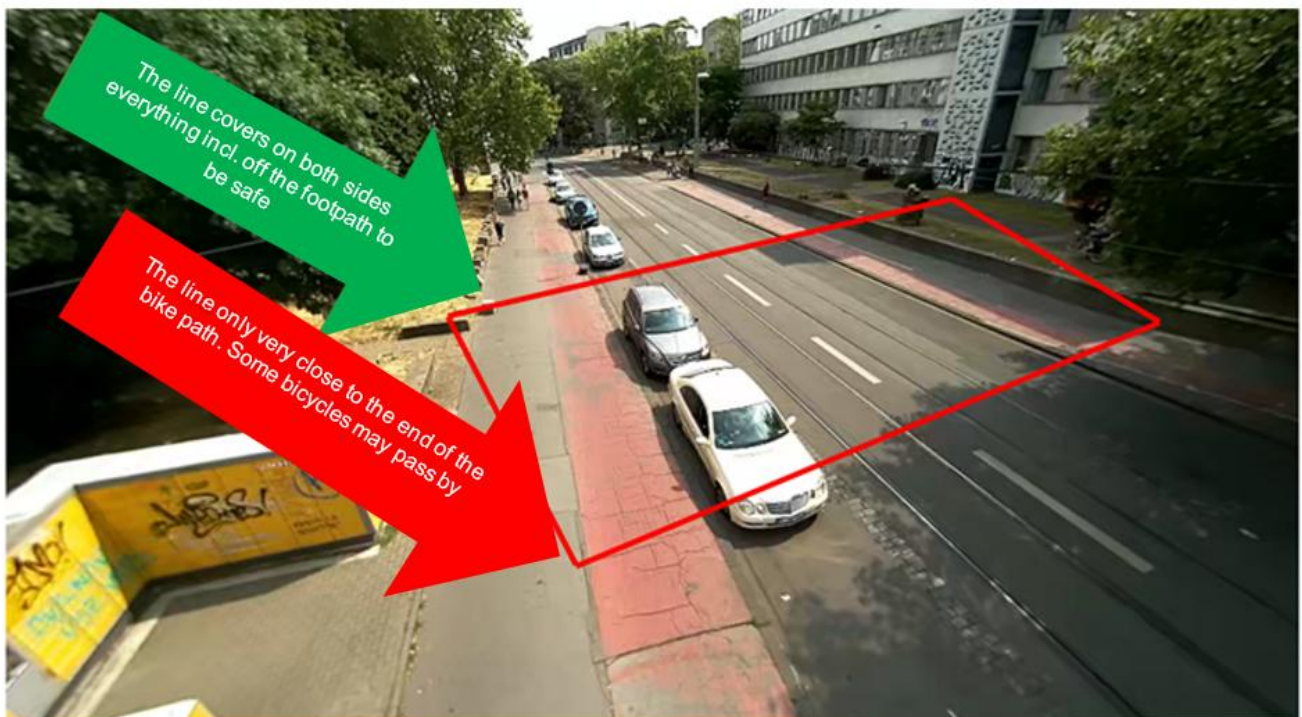


## Note the proximity to the edge of the image

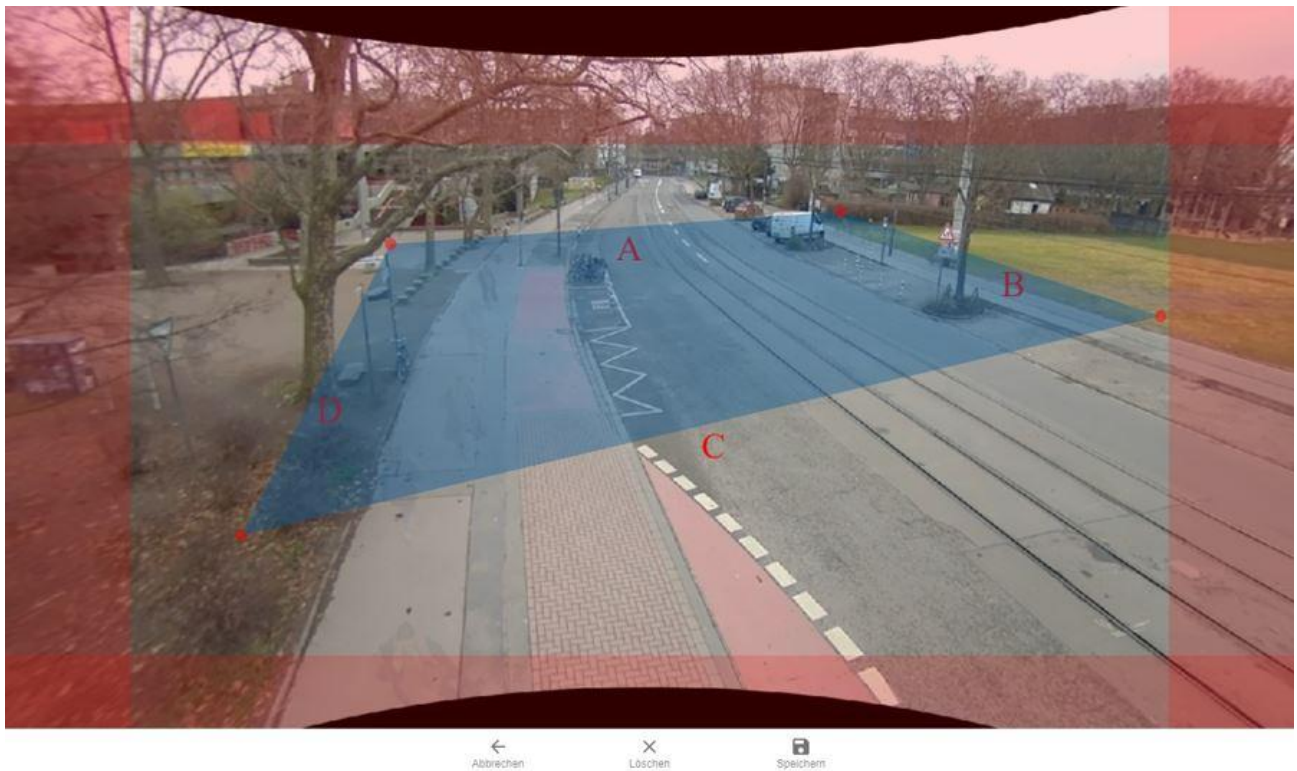
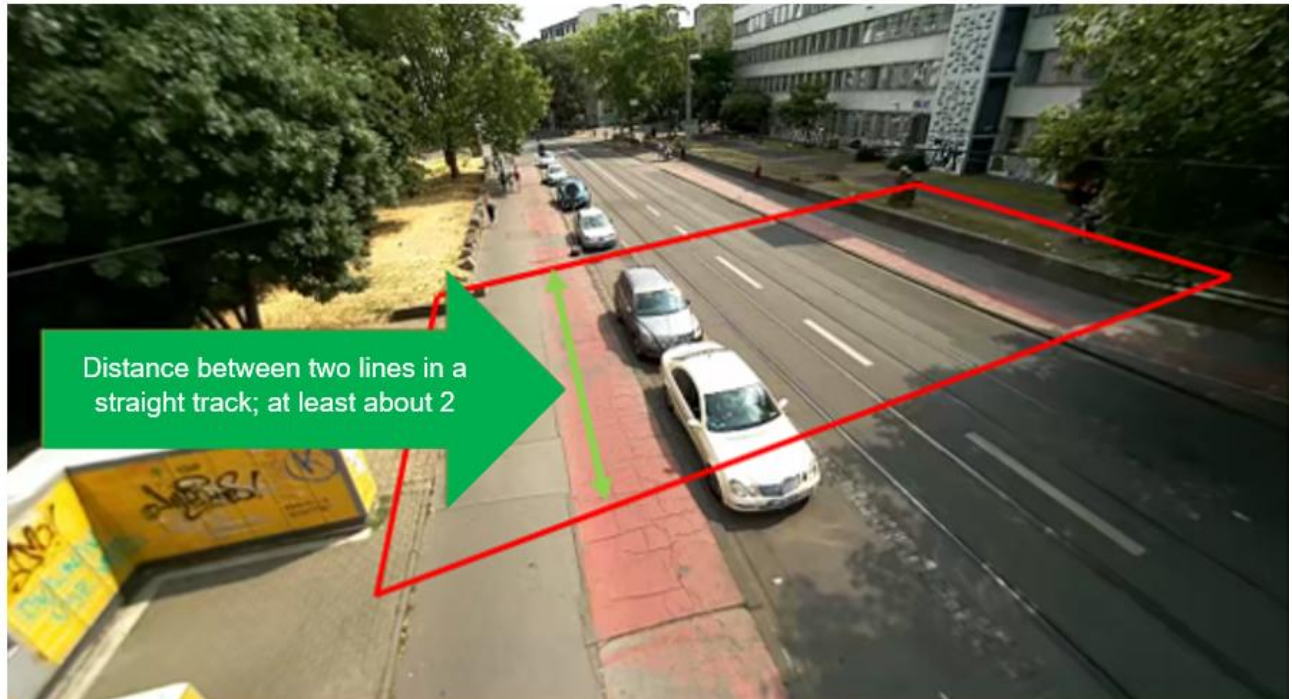
If the line is too close to the edge of the image, vehicles may not be detected in time.



## Maximize detection range



## Minimum detection range



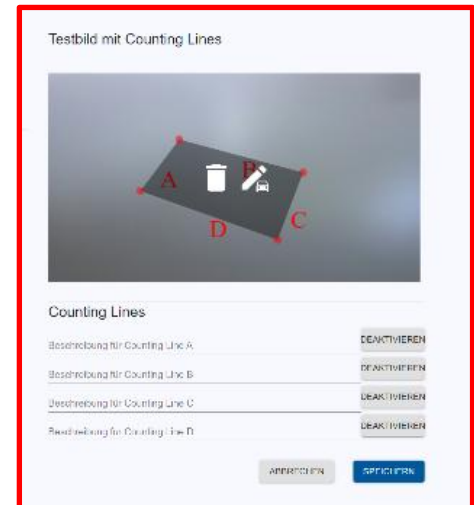


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Counting Lines are automatically named from A to P (maximum 16 polygon sides, but only 8 activated) but can be renamed by the user.

If you made a mistake, you can delete the counting lines again via the "Delete" button.

**Counting lines that are not needed (e.g. for a traffic circle or a T-junction) must be deactivated next to their name.**

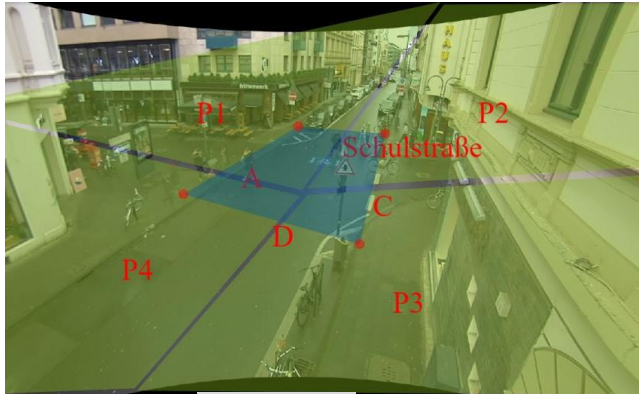


### 8.5.3 Explanation pedestrian-polygons

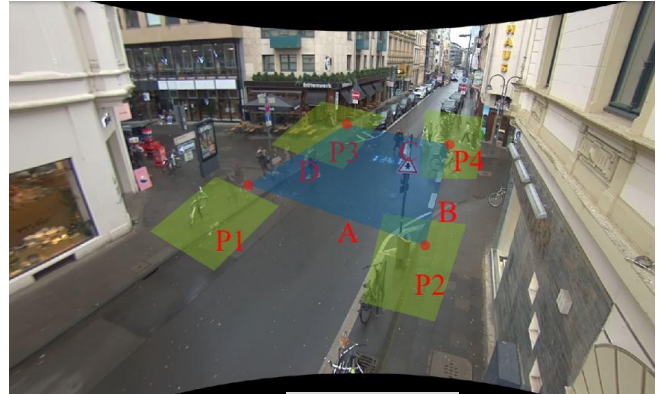
The generated trajectories also count for pedestrians. For pedestrian counting, the system uses **up to 8** manually drawn polygons. The count of a single pedestrian is considered valid if they start with the **whole outline** inside one of these polygons and ends inside another polygon, even if they cross several polygons on their way. The count uses only the first and the last point of the pedestrian's movement. If the pedestrian is last seen in the polygon where they started, they will not be counted.



To increase the probability that both points (first/last point of pedestrian movement) are in two different polygons, they should be as large as possible and include all areas where pedestrians can occur. You can create a single polygon for each pedestrian area.



**Positiv**



**Negativ**

### 8.5.4 Setting up pedestrian-polygons

Click the person icon above the screenshot.

At least 2 polygons are needed for pedestrian counting. Draw the necessary polygons.

The polygons are automatically named from P1 to P8 (maximum 8 polygons) but can be renamed by the user.

If you have made a mistake, you can delete polygons again using the "**Delete**" button.

When you have drawn in all the polygons you need, click "**Save**".

Now the measurement is completely created. Click on "**Save**" again at the bottom right.

When you have created all the desired measurements, log out via the "**Logout & Standby**" menu item to put the device in standby mode until the next measurement starts. Do not click on "**Shutdown**" if measurements are still to be performed.

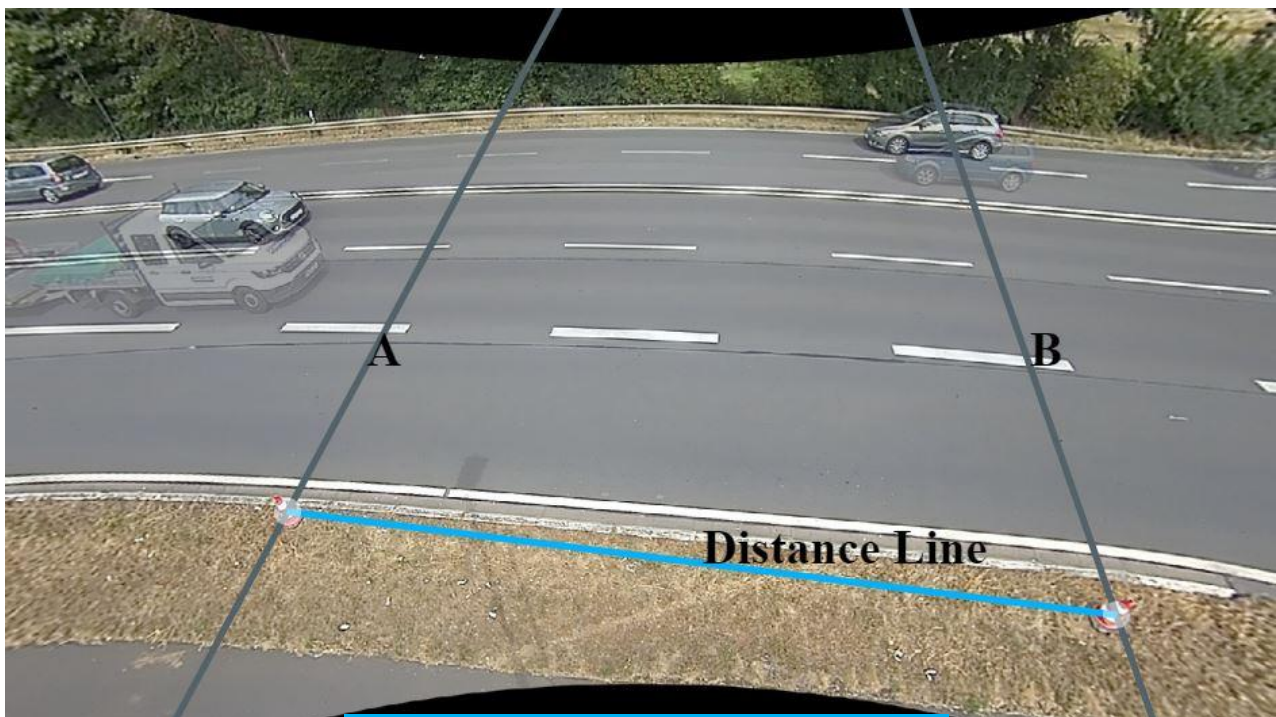


## 8.6 Speed measurement

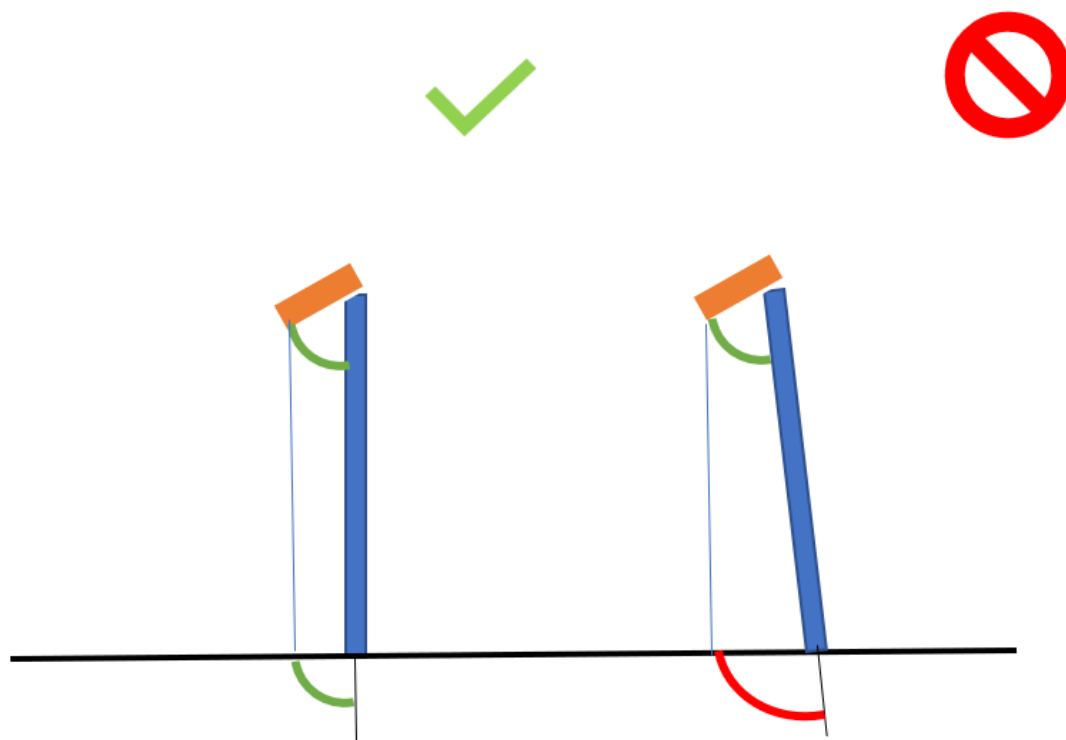


**Note:** Speed measurement is only possible on a straight measuring section, without slope or gradient, with a minimum length of 25 m. The ARGOS system is mounted at the roadside. Optimally the camera is looking at the road in a 90-degree angle as in the following example. Please ensure that the system is level, both vertically and horizontally, using the supplied spirit level. The adjusted tilt angle of the ARGOS must be measured exactly and stored in the system when setting up the measurement. Camera shakes due to gusts of wind can lead to deviations in velocities.

Please note the instructions for creating a new measurement from Chapter 8.4. Now select "*Speed*" instead of "*Traffic*". Enter the data of the measurement and generate a screenshot as described in 8.4. Now draw your Distance Line with a length of 10 m at the roadside on the side of the ARGOS and store this value below the screenshot. For easier measurement of the distance between the start and end point of the distance line, it is recommended to set up two pylons at the roadside and measure the distance between the two pylons.



Optimal alignment speed measurement



Both a vertical and horizontal upright position of ARGOS must be ensured.

## 8.7 Tips for aligning the camera

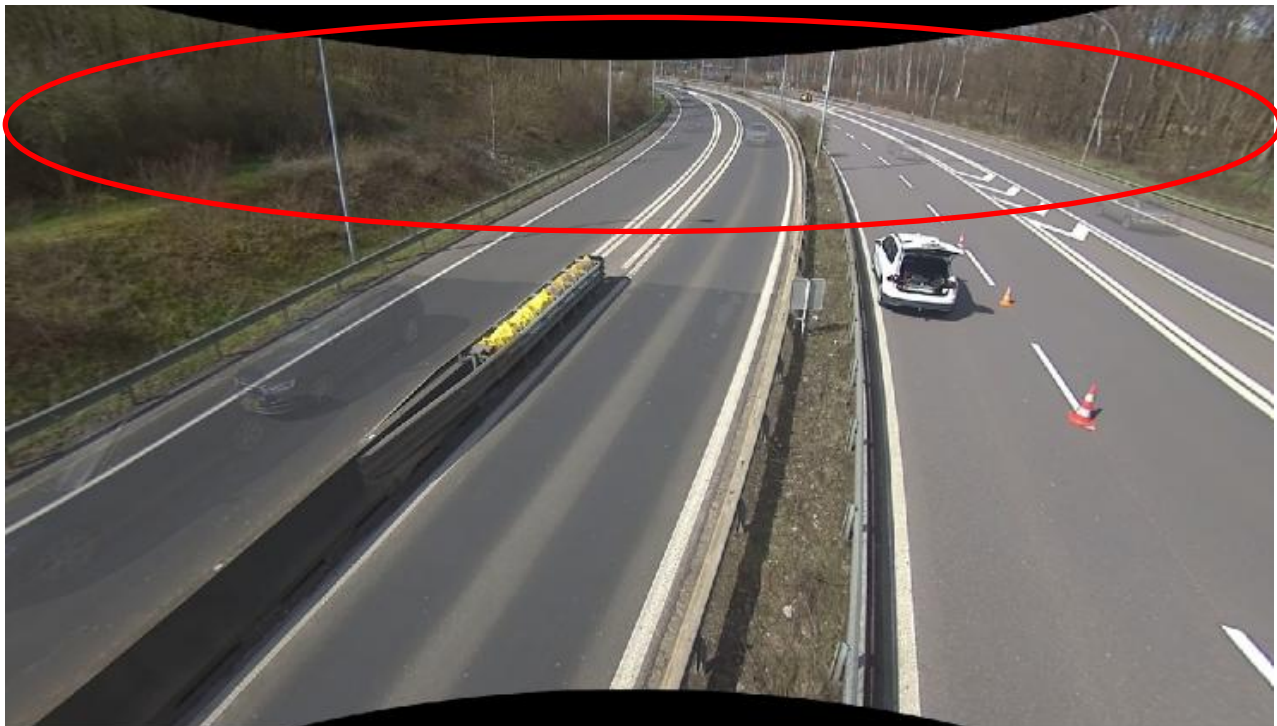
The ARGOS should be aligned so that it can see the area to be detected very well. No objects such as trees should obscure the traffic situation. All entrances and exits must be clearly visible. No horizon must be visible to avoid glare caused by sunlight. Here are a few hints:

## Solar irradiation and image share of traffic situation



In addition, a long distance of the system to the measuring point could lead to problems with vehicle detection (e.g. vehicles driving in parallel, possible occlusions).

It should be avoided that ARGOS can look too far into one of the intersection arms.



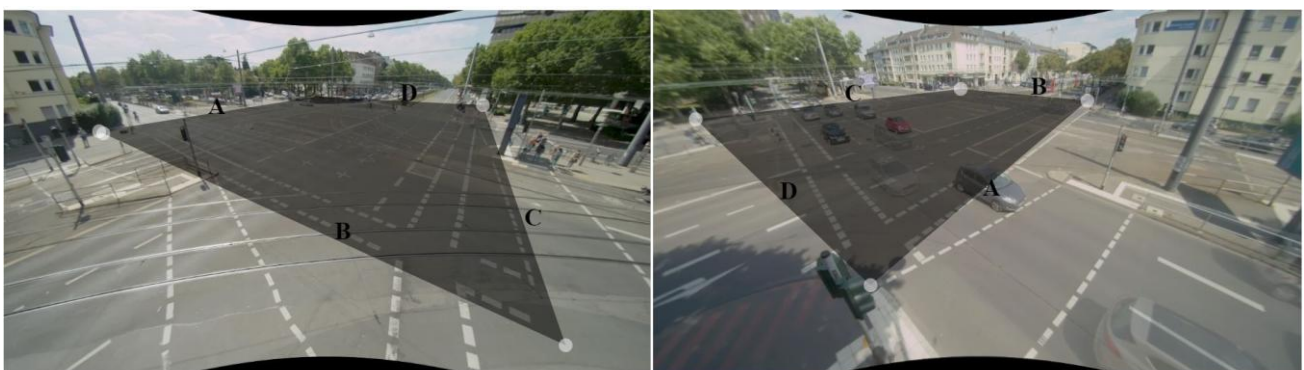
**Wrong:** The camera has a very wide view onto the intersection arm at the top of the image. The camera needs to be positioned at a steeper angle.



**Correct:** The camera does not have a wide view into the intersection arm.

## 8.8 Tips for complex intersections

For traffic intersections with more than 3 lanes in one direction, a size over 47m in diagonal or with frequently crossing trains we recommend to assemble 2 ARGOS systems on opposite sides of the intersection. The following is an example of this:



AG000002

AG0000003

The designation of the counting lines above the individual intersection arms must be identical for both ARGOS systems. As can be seen in the example above, the Counting Line at AG000002 is



called "B" at the bottom left and "C" at the bottom right. Correspondingly, the counting line at AG000003, which is opposite AG000002, is also called "B" at the top right and "C" at the top left.

The start and end time of the measurement must be the same for both measurements.

Both measurements are uploaded to myTrafficData2, the evaluation software for ARGOS, at one measurement point. More about uploading the measurements from chapter 11.1.

## 9 Overview of measurements

In the "Analyses" menu item, you also have an overview of all planned and already performed measurements. The status and properties are marked with symbols.

| Icon                                                                                | Meaning                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | The measurement is scheduled and carried out at the time entered    |
|  | The measurement is just being carried out                           |
|  | The measurement has been successfully carried out                   |
|  | The measurement was incorrect                                       |
|  | The measurement is a count                                          |
|  | A video is recorded during counting                                 |
|  | During the measurement, the vehicles are counted and tracked        |
|  | During the measurement, objects are counted and speeds are recorded |



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Please shut down the system only if all measurements are completed and the system is to be dismantled. Shutting down the system means that all pending, already planned measurements in the system will not be performed.

When you have created all the desired measurements, log out via the **"Logout & Standby"** menu item to put the device into standby mode. Do not click on **"Shutdown"** if measurements are still to be performed.

## 10 After the measurement

The system is in standby mode after the measurements have been completed. To be able to reconnect to the ARGOS, switch the toggle switch for the power supply off and on again. Now wait 5 minutes to connect to the WiFi of the ARGOS. For instructions on how to log in to the ARGOS, refer to Chapter 8.

### 10.1 Automatic upload of the data

After the measurement, the data is automatically uploaded via LTE to [www.mytrafficdata2.com](http://www.mytrafficdata2.com). But not yet assigned to a measuring point.

You can then edit and name the measuring point as in chapter 11.5.

|                  |                                                     |   |
|------------------|-----------------------------------------------------|---|
| No Site Selected | 21 June 2023 at 11:50:00 - 21 June 2023 at 11:56:02 | ▼ |
| No Site Selected | 21 June 2023 at 15:38:00 - 21 June 2023 at 15:44:02 | ▼ |
| No Site Selected | 21 June 2023 at 17:50:00 - 21 June 2023 at 17:53:02 | ▼ |

### 10.2 Downloading the data

Select the *Analyses* menu item. Now select the measurement whose data you want to download.



Click this icon, behind both the tracking and video data to download the data.



## 10.3 Deleting the measurements

Select the measurement whose data you want to delete.



Click this icon , to delete the measurement.

You cannot delete the measurement until the data has been downloaded first.

## 10.4 Turning off the system

To turn off the device, select the "**Shutdown**" item in the menu. Now wait for the message that the device has been successfully shut down.

You can then disconnect all batteries and loosen the cable glands. Evaluation of measurement data via [www.mytrafficdata2.com](http://www.mytrafficdata2.com)

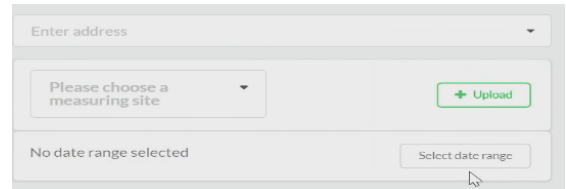
The access data to your user area on [www.mytrafficdata2.com](http://www.mytrafficdata2.com) was sent to you by the sales department via e-mail.



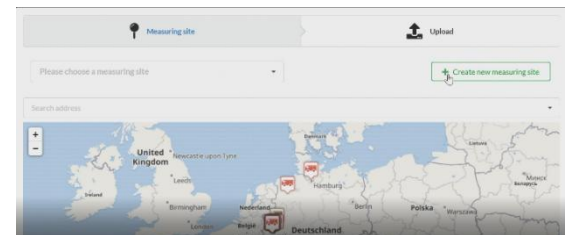
## 11 After the measurement

### 11.1 Uploading data to a new measuring site

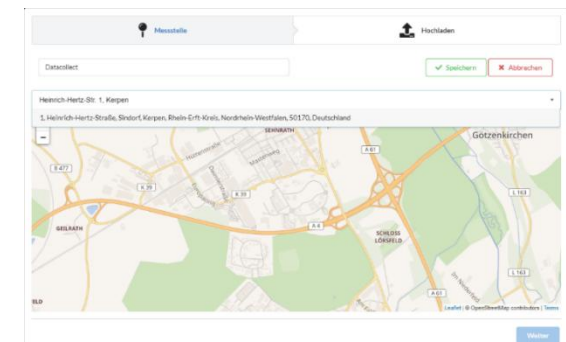
After logging in, the *Overview Map* tab opens automatically. Now click on the **"Upload"** button marked in green.



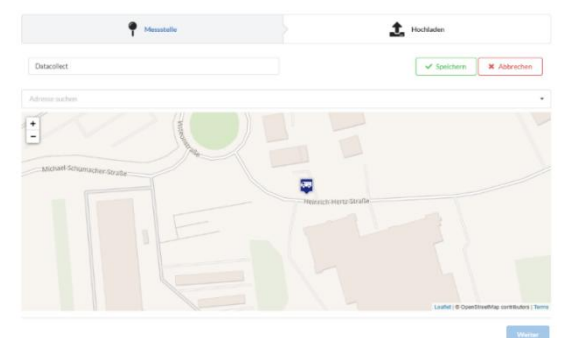
Click on the green marked button **"Create new measuring point"**.



Enter the name of the measuring point in the upper input field under "Name for new measuring point" and the address in the lower field.



Click on the location of the measuring point on the map below. **You need to zoom in on the map to the exact location.**



Then click on the green marked **"Save"** button.



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Now a message "Measuring point has been created" appears. Click on the blue marked **"Next"** button at the bottom right.

Select the blue marked button **"Browse"** in the middle of the screen and select your previously downloaded ARGOS file by double-clicking on it. If you have performed a measurement with 2 ARGOS, first select the one file and wait until the data has been provided.

Then select the other file via "Upload another file" and wait until the data has been provided. Now you must define the responsibility of the two ARGOS for the respective turns via the "OD Matrix". To do this, select the serial number of the ARGOS that was able to collect the data more reliably for each turn.

After successfully providing the file(s), click on the blue marked button **"Import"** at the bottom right. Now a window opens, which shows the progress of the just created process. To minimize this window, click in the dark area next to the window.

The process will now be stored in the *Processes* menu tab. Here you can also check the current progress.

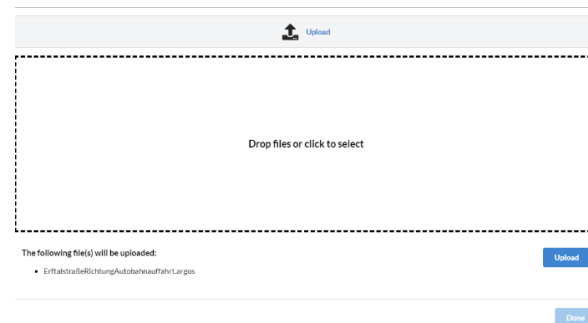
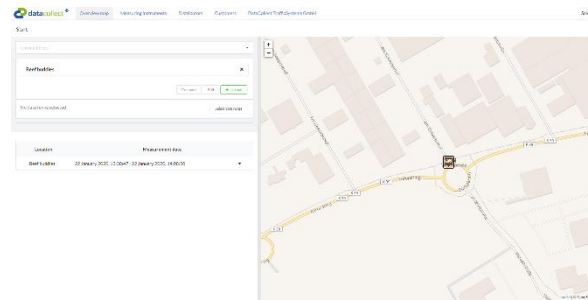
| Properties | Change measuring site | Edit port lines | Directions | OD Matrix | Direction names |
|------------|-----------------------|-----------------|------------|-----------|-----------------|
| From       | To                    | #Serial         |            |           |                 |
| A          | A                     | AG0000002 ▾     |            |           |                 |
| A          | B                     | AG0000002 ▾     |            |           |                 |
| A          | C                     | AG0000002 ▾     |            |           |                 |
| A          | D                     | AG0000002 ▾     |            |           |                 |
| B          | A                     | AG0000002 ▾     |            |           |                 |
| B          | B                     | AG0000003 ▾     |            |           |                 |
| B          | C                     | AG0000003 ▾     |            |           |                 |
| B          | D                     | AG0000003 ▾     |            |           |                 |
| C          | A                     | AG0000003 ▾     |            |           |                 |
| C          | B                     | AG0000003 ▾     |            |           |                 |
| C          | C                     | AG0000003 ▾     |            |           |                 |
| C          | D                     | AG0000003 ▾     |            |           |                 |
| D          | A                     | AG0000002 ▾     |            |           |                 |
| D          | B                     | AG0000003 ▾     |            |           |                 |
| D          | C                     | AG0000003 ▾     |            |           |                 |



### 11.2 Uploading data to an existing measuring site

If you have counted at different times at the same measuring point, you can upload several files to one measuring point. Select the desired measuring point under the menu tab *Overview map* by entering the name of the measuring point at "Please select measuring point". Now click on the green marked button **"+Upload"**. Select the blue marked button **"Browse"** in the middle of the screen and select your previously downloaded ARGOS file by double-clicking on it.

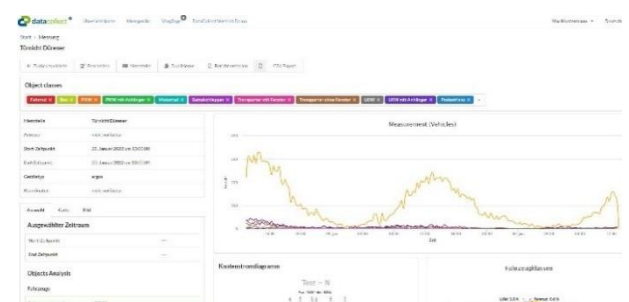
After successfully providing the file, click on the blue marked **"Import"** button in the bottom right corner. Now a window opens, which shows the progress of the just created process. To minimize this window, click in the dark area next to the window. The process will be stored in the Processes menu tab. Here you can also check the current progress. After successful uploading, you can view the various measurements by selecting the measuring point as described above.



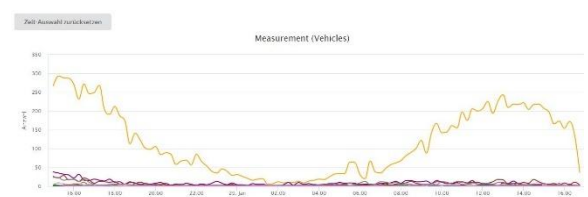
### 11.3 Measurement dashboard

As soon as you upload a measurement, you will be taken directly to the dashboard of the uploaded measurement, where you will get the first information about the collected data. To remove a displayed object class, click on the "X" next to the name of an object class. If you want to add an object class / vehicle group, click on the small arrow to the right of the object class listing and select the desired class / group. All the data in the dashboard will be adjusted according to selected object classes.

Using the traffic volume hydrograph, you can immediately see the increasing or decreasing frequency of traffic. To select a specific time period, click and hold on the desired start time in the graphs and drag the gray area to the desired end time. Now all the data in the dashboard will be adjusted to the selected time period. To reset the selected time



Measurement dashboard



Traffic volume hydrograph



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period, click on the gray highlighted **"Reset Time Selection"** button on the left above the graph.

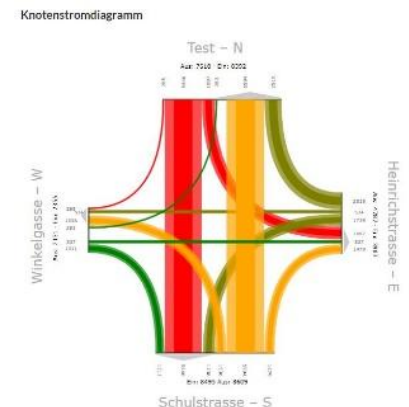
If you scroll down a bit, you will get to the "Objects Analysis" section on the left side of the screen. Here the quantities of all selected object classes are displayed. No specific turns are considered.

Objects Analysis

|                          |                |
|--------------------------|----------------|
| Fahrzeuge                |                |
| Fahrzeuge gesamt         | 23145          |
| Fahrrad                  | 0,6 % (135)    |
| Bus                      | 1,6 % (360)    |
| PKW                      | 81,2 % (18804) |
| PKW mit Anhänger         | 0,4 % (104)    |
| Motorrad                 | 0,4 % (103)    |
| Sattelschlepper          | 5,9 % (1355)   |
| Transporter mit Fenster  | 1,8 % (412)    |
| Transporter ohne Fenster | 4,2 % (966)    |
| LKW                      | 3,6 % (833)    |
| LKW mit Anhänger         | 0,3 % (73)     |
| Pedestrians              |                |
| Total Pedestrians        | 0              |

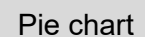
Object Analysis

In the center of the screen, a dynamic intersection flow diagram is generated. The quantities of all vehicles are displayed according to the individual turns. A detailed breakdown of which object class drove from where to where can be found in the pdf report.



Intersection flow diagram

On the right side of the screen, next to the intersection flow diagram, a pie chart is shown. This diagram shows the percentages of the object classes in the total amount of objects driven.



| Spitzenstunden |                             |        |
|----------------|-----------------------------|--------|
| Phase          | Spitzenzeit                 | Anzahl |
| ▼ Morgen       | 29. Januar 2022 um 15:30:00 | 937    |
| ▶ E            |                             | 164    |
| ▶ N            |                             | 229    |
| ▶ S            |                             | 333    |
| ▶ W            |                             | 104    |
| ▶ Nachmittag   | 30. Januar 2022 um 14:30:00 | 1675   |
| ▶ Abend        | 26. Januar 2022 um 17:15:00 | 1093   |

### Peak hours

The screenshot shows the DataCamp website interface. At the top, there is a navigation bar with links: 'DataCamp', 'Download', 'Viewing notebooks', 'Environments', 'Environments', and 'RunLab: Web-based IDE'. Below the navigation bar, there is a search bar and a 'Start' button. The main content area is divided into two sections. On the left, there is a sidebar with a search bar and a list of notebooks. The notebook titled 'To what extent' is selected. On the right, there is a map showing a street with buildings and a yellow line indicating a route. The map is titled 'To what extent' and shows a street with buildings and a yellow line.

[illegible]

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### 11.4.1 PDF Report

The top part of a page in the PDF report displays information such as the duration of the measurement, days of the week of the survey, selected object classes, as well as your institution-related data.

#### Verkehrsauswertung

2. März 2023 15:36 - 2. März 2023 15:57 (00:00 - 23:59)

Mo, Di, Mi, Do, Fr, Sa, So

Fahrrad, Bus, PKW, PKW mit Anhänger, Motorrad, Sattelschlepper, Transporter mit Fenster,

Transporter ohne Fenster, LKW, LKW mit Anhänger

DataCollect Vertrieb Demo

Heinrich Hertz Straße 1

Körpen, 50170, DE

vertrieb@datacollect.com

Header pdf report

Immediately below you can see the map section, based on the specified address. Next to it is the screenshot of the measuring point on which the evaluation is based. Below the map section, the coordinates of your specified address are displayed.

#### MESSSTELLE GLADBACHER STRASSE, 50189 ELSDORF

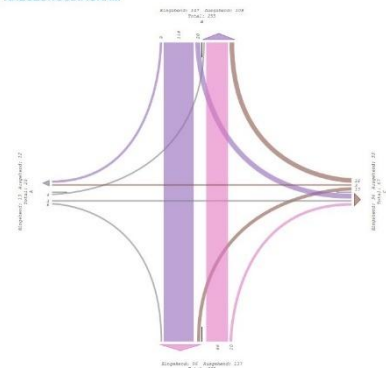


Koordinaten: 50.941704684697975, 6.556026829378247

Spatial data measuring point

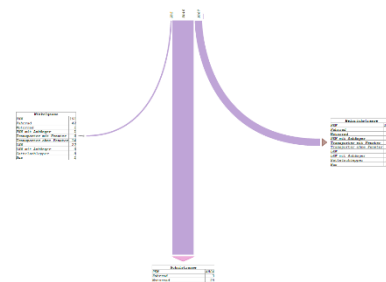
In the lower part of the first page of the PDF report, an intersection flow diagram is generated. The quantities of all vehicles are differentiated according to the individual turns. A detailed breakdown of which object class drove from where to where is provided starting on **page 2** of the PDF report.

#### KREUZUNGSDIAGRAM



Intersection flow diagram

The header of the pages in the pdf report remains the same. Starting on **page 2**, the number of individual object classes per turn is now output.

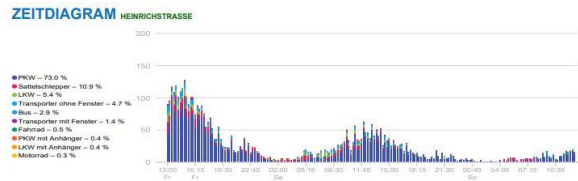


Turnings in the intersection



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On page 6 and 7 of the pdf report, bar charts are presented for each intersection arm, including the share of the respective object classes in the total volume.



Time diagram related to an intersection arm

### 11.4.2 XLS Report

The Excel report (XLS) is divided into 16 spreadsheets by default. The number of sheets varies depending on the number of selected object classes. In the first spreadsheet, general information about the measurement, as well as your institution is presented. From the second spreadsheet on, you get a listing of the quantities of the respective object class in your previously set intervals for each turn. After the individual listing by object class, you will receive a cumulative display of the object quantities in the respective turns in the "Total volume vehicle classes" spreadsheet. In addition, the quantities are also displayed as percentages in the lower part of the spreadsheet. For each peak hour, a spreadsheet is created in which you can also see the total quantities of the object classes in the upper part, as well as the percentage shares in the lower part. In the last spreadsheet, you can use the filter function of the top line to adjust the evaluation individually according to period, source and destination direction, as well as object class and volume.

| Eingänge              | Test        | Winkelgasse |          |      |      |        |       | Schulstrasse |          |      |        | Heinrichstrasse |       |          |      |        |  |
|-----------------------|-------------|-------------|----------|------|------|--------|-------|--------------|----------|------|--------|-----------------|-------|----------|------|--------|--|
| Richtungen            | Direction N | Direction W |          |      |      |        |       | Direction S  |          |      |        | Direction E     |       |          |      |        |  |
| Zeit                  | U-Turn      | Right       | Straight | Left | Left | U-Turn | Right | Straight     | Straight | Left | U-Turn | Right           | Right | Straight | Left | U-Turn |  |
| 28. Januar 2022 13:00 | 0           | 4           | 59       | 17   | 1    | 0      | 13    | 7            | 44       | 16   | 0      | 15              | 28    | 4        | 13   | 0      |  |
| 28. Januar 2022 13:15 | 0           | 7           | 64       | 25   | 3    | 0      | 18    | 7            | 76       | 35   | 0      | 18              | 29    | 5        | 28   | 0      |  |
| 28. Januar 2022 13:30 | 0           | 4           | 45       | 28   | 9    | 0      | 26    | 3            | 62       | 16   | 0      | 23              | 41    | 7        | 33   | 0      |  |
| 28. Januar 2022 13:45 | 0           | 9           | 69       | 17   | 0    | 0      | 22    | 6            | 52       | 19   | 0      | 13              | 42    | 10       | 27   | 0      |  |
| 28. Januar 2022 14:00 | 0           | 3           | 55       | 23   | 15   | 0      | 12    | 6            | 74       | 22   | 0      | 13              | 55    | 11       | 28   | 0      |  |
| 28. Januar 2022 14:15 | 0           | 3           | 53       | 21   | 4    | 0      | 11    | 4            | 77       | 23   | 0      | 13              | 44    | 5        | 22   | 0      |  |
| 28. Januar 2022 14:30 | 0           | 5           | 78       | 20   | 2    | 0      | 19    | 10           | 73       | 19   | 0      | 22              | 44    | 7        | 29   | 0      |  |
| 28. Januar 2022 14:45 | 0           | 3           | 56       | 23   | 9    | 0      | 21    | 6            | 85       | 23   | 0      | 12              | 47    | 10       | 34   | 0      |  |
| 28. Januar 2022 15:00 | 0           | 0           | 50       | 17   | 9    | 0      | 20    | 10           | 67       | 19   | 0      | 13              | 47    | 11       | 26   | 0      |  |
| 28. Januar 2022 15:15 | 0           | 5           | 60       | 16   | 5    | 0      | 13    | 7            | 84       | 22   | 0      | 10              | 39    | 5        | 27   | 0      |  |
| 28. Januar 2022 15:30 | 0           | 2           | 55       | 16   | 3    | 0      | 21    | 2            | 90       | 19   | 0      | 12              | 34    | 6        | 28   | 0      |  |
| 28. Januar 2022 15:45 | 0           | 2           | 71       | 14   | 4    | 0      | 8     | 5            | 76       | 19   | 0      | 13              | 42    | 8        | 25   | 0      |  |
| 28. Januar 2022 16:00 | 0           | 3           | 65       | 8    | 2    | 0      | 15    | 4            | 81       | 11   | 0      | 8               | 37    | 8        | 29   | 0      |  |
| 28. Januar 2022 16:15 | 0           | 0           | 51       | 7    | 5    | 0      | 9     | 3            | 72       | 19   | 0      | 12              | 24    | 4        | 26   | 0      |  |
| 28. Januar 2022 16:30 | 0           | 4           | 60       | 5    | 8    | 0      | 19    | 4            | 82       | 12   | 0      | 8               | 39    | 9        | 22   | 0      |  |
| 28. Januar 2022 16:45 | 0           | 0           | 69       | 13   | 5    | 0      | 10    | 4            | 54       | 18   | 0      | 7               | 31    | 5        | 30   | 0      |  |
| 28. Januar 2022 17:00 | 0           | 3           | 48       | 11   | 2    | 0      | 22    | 6            | 60       | 18   | 0      | 7               | 39    | 8        | 25   | 0      |  |
| 28. Januar 2022 17:15 | 0           | 4           | 70       | 13   | 1    | 0      | 15    | 5            | 69       | 20   | 0      | 6               | 33    | 8        | 24   | 0      |  |
| 28. Januar 2022 17:30 | 0           | 2           | 49       | 10   | 3    | 0      | 8     | 2            | 61       | 15   | 0      | 7               | 28    | 5        | 14   | 0      |  |

Display total volume vehicle classes in Excel



### 11.4.3 CSV Report (individual vehicle data)

To track each individual object movement to millisecond accuracy, you can create an evaluation in CSV format. This is also an Excel table, but its data is very well suited for exporting to other systems. In the top line there is a legend, which gives information about the arrangement of the individual parameters. If you wish an interface from our CSV format into your traffic management system, please contact the sales department of DataCollect or your distributor.

|    | A                                | B                 | C                 | D                       | E | F | G | H |
|----|----------------------------------|-------------------|-------------------|-------------------------|---|---|---|---|
| 1  | timestamp                        | prigin            | destination       | class                   |   |   |   |   |
| 2  | 2022-01-28 13:00:05.556000+01:00 | "Sinn"            | "Schulstrasse"    | "CAR"                   |   |   |   |   |
| 3  | 2022-01-28 13:00:07.763000+01:00 | "Sinn"            | "Schulstrasse"    | "SEMI_TRAILER_TRUCK"    |   |   |   |   |
| 4  | 2022-01-28 13:00:07.903000+01:00 | "Heinrichstrasse" | "Sinn"            | "TRUCK"                 |   |   |   |   |
| 5  | 2022-01-28 13:00:08.825000+01:00 | "Sinn"            | "Heinrichstrasse" | "TRUCK"                 |   |   |   |   |
| 6  | 2022-01-28 13:00:11.145000+01:00 | "Sinn"            | "Heinrichstrasse" | "CAR"                   |   |   |   |   |
| 7  | 2022-01-28 13:00:13.900000+01:00 | "Sinn"            | "Heinrichstrasse" | "BUS"                   |   |   |   |   |
| 8  | 2022-01-28 13:00:14.534000+01:00 | "Heinrichstrasse" | "Sinn"            | "SEMI_TRAILER_TRUCK"    |   |   |   |   |
| 9  | 2022-01-28 13:00:16.246000+01:00 | "Sinn"            | "Heinrichstrasse" | "CAR"                   |   |   |   |   |
| 10 | 2022-01-28 13:00:24.379000+01:00 | "Heinrichstrasse" | "Sinn"            | "SEMI_TRAILER_TRUCK"    |   |   |   |   |
| 11 | 2022-01-28 13:00:26.332000+01:00 | "Heinrichstrasse" | "Sinn"            | "TRANSPORTER_WO_WINDOW" |   |   |   |   |
| 12 | 2022-01-28 13:00:27.531000+01:00 | "Sinn"            | "Schulstrasse"    | "CAR"                   |   |   |   |   |
| 13 | 2022-01-28 13:00:27.898000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 14 | 2022-01-28 13:00:28.138000+01:00 | "Heinrichstrasse" | "Sinn"            | "CAR"                   |   |   |   |   |
| 15 | 2022-01-28 13:00:30.263000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 16 | 2022-01-28 13:00:30.830000+01:00 | "Sinn"            | "Schulstrasse"    | "TRANSPORTER_WO_WINDOW" |   |   |   |   |
| 17 | 2022-01-28 13:00:31.350000+01:00 | "Sinn"            | "Schulstrasse"    | "CAR"                   |   |   |   |   |
| 18 | 2022-01-28 13:00:31.771000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 19 | 2022-01-28 13:00:32.089000+01:00 | "Sinn"            | "Schulstrasse"    | "CAR"                   |   |   |   |   |
| 20 | 2022-01-28 13:00:33.392000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 21 | 2022-01-28 13:00:34.045000+01:00 | "Heinrichstrasse" | "Sinn"            | "CAR"                   |   |   |   |   |
| 22 | 2022-01-28 13:00:34.434000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 23 | 2022-01-28 13:00:34.565000+01:00 | "Schulstrasse"    | "Sinn"            | "SEMI_TRAILER_TRUCK"    |   |   |   |   |
| 24 | 2022-01-28 13:00:35.839000+01:00 | "Schulstrasse"    | "Sinn"            | "MOTORBIKE"             |   |   |   |   |
| 25 | 2022-01-28 13:00:38.604000+01:00 | "Schulstrasse"    | "Sinn"            | "SEMI_TRAILER_TRUCK"    |   |   |   |   |
| 26 | 2022-01-28 13:00:39.369000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 27 | 2022-01-28 13:00:40.411000+01:00 | "Heinrichstrasse" | "Schulstrasse"    | "TRANSPORTER_WO_WINDOW" |   |   |   |   |
| 28 | 2022-01-28 13:00:44.307000+01:00 | "Schulstrasse"    | "Heinrichstrasse" | "TRANSPORTER_WO_WINDOW" |   |   |   |   |
| 29 | 2022-01-28 13:00:50.243000+01:00 | "Schulstrasse"    | "Sinn"            | "CAR"                   |   |   |   |   |
| 30 | 2022-01-28 13:00:52.176000+01:00 | "Schulstrasse"    | "Winkelgasse"     | "CAR"                   |   |   |   |   |
| 31 | 2022-01-28 13:00:52.440000+01:00 | "Schulstrasse"    | "Heinrichstrasse" | "TRUCK"                 |   |   |   |   |
| 32 | 2022-01-28 13:00:53.631000+01:00 | "Schulstrasse"    | "Winkelgasse"     | "CAR"                   |   |   |   |   |
| 33 | 2022-01-28 13:00:54.005000+01:00 | "Heinrichstrasse" | "Sinn"            | "CAR"                   |   |   |   |   |
| 34 | 2022-01-28 13:00:56.350000+01:00 | "Heinrichstrasse" | "Sinn"            | "CAR"                   |   |   |   |   |
| 35 | 2022-01-28 13:00:58.044000+01:00 | "Schulstrasse"    | "Heinrichstrasse" | "CAR"                   |   |   |   |   |

CSV-Report

## 11.5 Editing the measurement

After selecting the desired measurement, click *Edit* to edit the measurement settings.

Under *Properties* you can delete the currently selected measurement by clicking the **"Delete"** button marked in red.

Under *Change measuring point*, after clicking the **"Edit measuring point"** button in the right half of the screen, you can change the measuring point name and move the marker on the map. When you have made changes, confirm them by clicking the green marked **"Save"** button on the right side.

Under *Edit Port Lines* you can adjust the vehicle and pedestrian polygons, the names of the counting lines and the associated cardinal directions. More about this from **11.5.1**.

### 11.5.1 Changing the counting lines

Click *Edit Port Lines*.

By clicking and holding the red dots at the polygon corners, you can move them. To select another polygon, click on it. To delete the polygons, click on the red marked button with the trash can symbol. To draw in the vehicle polygon, click on the bus icon above the screenshot of the measurement point and draw in the desired counting lines within the screenshot. To draw in a new pedestrian polygon, click on the person icon above the screenshot of the measurement point and draw it inside the screenshot. To draw in another pedestrian polygon, click on the person icon again. If you want to reset the polygons to the originally drawn polygons, click on the blue marked button with the circular arrow. To save your changes, click on the green marked button with the

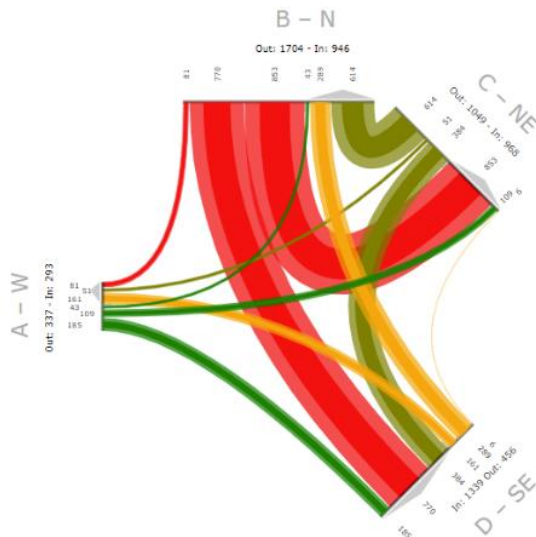


disk symbol. In order for the recounting/new evaluation of the data to be carried out, you must press the green marked **"Save"** button at the bottom left. Depending on the file size of the measurement, this may take some time. A process is created, the progress of which can be viewed under the Processes menu tab. You can work in parallel with other measurements.

### 11.5.2 Changing the directions

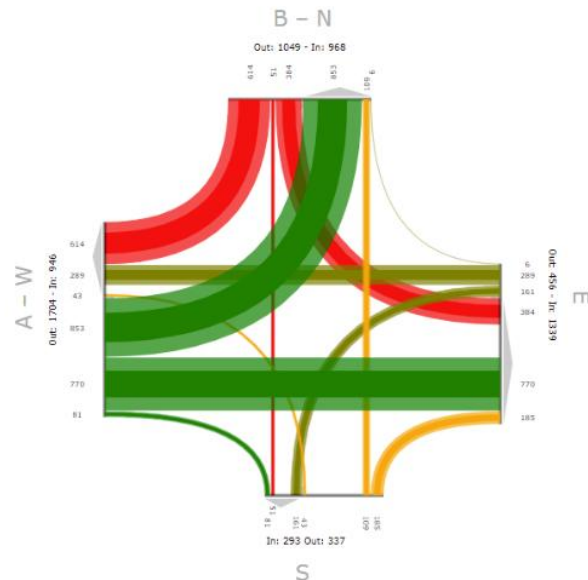
Below the screenshot of the measurement, you can adjust the cardinal directions of the intersection arms/counting lines. This affects the graphical representation of the intersection flow diagram. After changing the cardinal directions, click on the green marked **"Save"** button at the bottom right.

Crossing chart



before

Crossing chart



after

### 11.5.3 Changing the direction names

The names of the Counting Lines are also changed below the screenshot.

After changing the name of the Counting Lines, click on the green marked **"Save"** button at the bottom right.



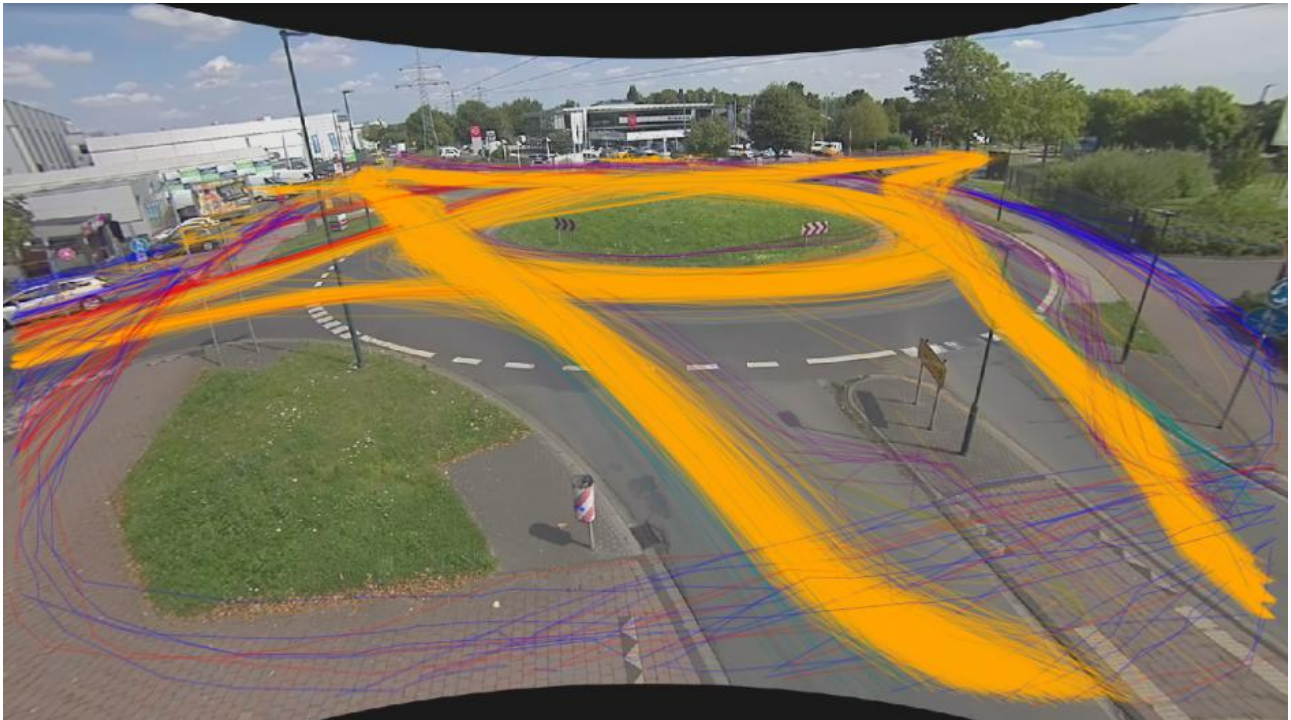
## 11.5.4 Heatmap (Display of trajectories / movement sequences)

To activate the display of trajectories, click on:

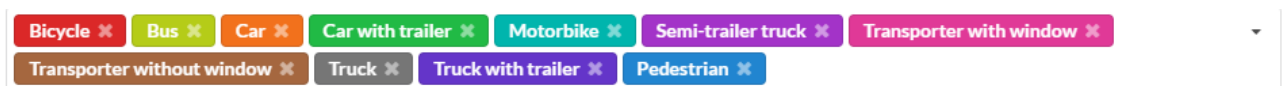
Show Tracks



After a short loading time, the movement sequences of the traffic objects (also pedestrians) are now displayed in the screenshot.

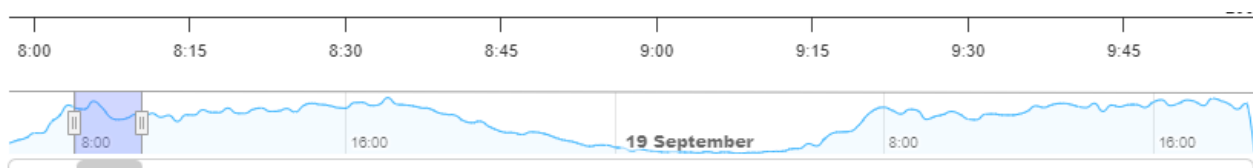


The colors of the lines correspond to the assignment of the individual object class.



To adjust the selection of object classes, you can delete the desired class by pressing the colored "X" and select additional classes for display by opening the drop-down menu.

By moving the interval on the horizontal scroll bar, you can select any interval in the entire measurement period. This interval is a maximum of one hour long, but can be moved flexibly.





## 12 Account management

### 12.1 Changing log in data for ARGOS

Log in to [www.mytrafficdata2.com](http://www.mytrafficdata2.com). In the top line, select the "Measuring devices" tab and then the device whose log in data you want to change. Select the subordinate "Configurations" tab. Click on "+Create new configuration". Enter the desired user name, as well as the desired password and click on the green "**Save**" button. Now the "**Download**" button appears, please select it. The configuration file has been downloaded. Then switch on the ARGOS, establish a WiFi connection and log in with the old access data. Select the "Configuration" tab and then the "**Upload new configuration**" button. Select the previously downloaded configuration file. After successful upload, restart the device so that the new access data is applied.

Click on your username in the upper right corner and select "**Edit profile**".

Max Mustermann ▼ Deutsch ▼

Profil bearbeiten

Abmelden

Under "**Basic settings**" you can change your name and password.

Grundeinstellungen Konfiguration

Max Mustermann

Benutzer

Vorname Max ★

Nachname Mustermann ★

✓ Speichern Passwort ändern

Under "**Configuration**", you can specify the times for determining the time periods for the times of day. This will be considered for the peak hours.

Grundeinstellungen Konfiguration

Max Mustermann

Konfiguration

|                   |          |                 |          |
|-------------------|----------|-----------------|----------|
| Beginn Morgen     | 05:00:00 | Ende Morgen     | 12:00:00 |
| Beginn Nachmittag | 12:00:00 | Ende Nachmittag | 17:00:00 |
| Beginn Abend      | 17:00:00 | Ende Abend      | 21:00:00 |
| Beginn Nacht      | 21:00:00 | Ende Nacht      | 05:00:00 |

✓ Speichern



## user manual

In the lowest tab under "Vehicle groups" you can create and edit up to 3 vehicle class groups (e.g. heavy duty traffic). For this purpose, assign a name and select the desired individual vehicle classes from for grouping.

**Fahrzeuggruppen**

|                                                                                                                                   |                                                                                                                                                                                         |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Gruppennamen<br><input type="text" value="Transporter"/>                                                                          | Gruppennamen<br><input type="text" value="Schwerlast"/>                                                                                                                                 | Gruppennamen<br><input type="text" value="Rad und Fuß"/>                                             |
| Fahrzeugklassen<br><input type="button" value="Transporter mit Fenster"/> <input type="button" value="Transporter ohne Fenster"/> | Fahrzeugklassen<br><input type="button" value="Bus"/> <input type="button" value="Sattelschlepper"/> <input type="button" value="LKW"/> <input type="button" value="LKW mit Anhänger"/> | Fahrzeugklassen<br><input type="button" value="Fahrrad"/> <input type="button" value="Pedestrians"/> |
| <input type="button" value="Speichern"/>                                                                                          |                                                                                                                                                                                         |                                                                                                      |

Under the menu tab "*..Customer name...*" you can store your logo, as well as your institution data and create additional user accounts (maximum 3 users).

## 13 Technical data

| Technical data                    | Value                                   |
|-----------------------------------|-----------------------------------------|
| Frame rate                        | 15 frames per second (fps)              |
| Minimum and maximum voltage range | 10-12 V                                 |
| Power consumption                 | 10 watts                                |
| WiFi                              | 2,4 GHz                                 |
| Image quality low                 | 1280x720, 100kBit/sec, h265             |
| Ambient temperature               | -10°C to +70°C                          |
| Wind speed                        | withstands wind speeds of up to 90 km/h |
| Memory                            | 180 GB                                  |
| Units                             | Metre                                   |
| Length of mast extended           | Max. 5,80m                              |
| Weight camera                     | 1.2 kg                                  |
| Weight suitcase                   | 10.0 kg                                 |
| Weight mast                       | 10.2 kg                                 |



## 14 System requirements [www.myTrafficData2.com](http://www.myTrafficData2.com)

To ensure a pleasant work with the [www.myTrafficData2.com](http://www.myTrafficData2.com) , you should use one of these browsers:

- **Google Chrome** (at least version 89.0)
- **Firefox** (at least version 87.0)
- **Microsoft Edge** (at least version 89.0)

In your browser settings, these features should be **enabled**:

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

It is also recommended to use one of these operating systems:

- Microsoft Windows (at least 10)
- Ubuntu (at least version 18.0)
- macOS Big Sur

## 15 Frequently asked questions (FAQ)

### FAQ in general

1. **Question:** Where can I get the login data for [www.myTrafficData2.com](http://www.myTrafficData2.com)?

**Answer:** Our employees will create the account for you and send you the login data.

2. **Question:** What is the WiFi password for my Argos system?

**Answer:** In the area of measuring instruments on [www.myTrafficData2.com](http://www.myTrafficData2.com), each of your Argos systems is listed. Click on the system you are using, and you will see the WiFi password.



## 16 Disposal

Please dispose the present product at the end of its service life in accordance with the applicable legal regulations or use the take-back system for used batteries.



## 17 Intellectual property rights

The following trademark and patent rights of DataCollect Traffic Systems GmbH are available for this product area:

Logo DataCollect



DataCollect



Further property rights can be found in the Argos UI.

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## 18 EC declaration of conformity

The declaration of conformity can be found on the last page of the manual.

For legal reasons, we would like to point out that in the event of changes to the product by the user, not only any warranty claims, but also the properties guaranteed by the declaration of conformity, among other things, are no longer fulfilled.

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# EG-Konformitätserklärung Declaration of Conformity EC



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

Produkt:  
*Product:* Argos

Typ:  
*Type:* Argos 1.0

Artikelnummer:  
*Item number:* Argos 9999-0001

mit den Vorschriften folgender Europäischer Richtlinien übereinstimmt:

*complies with the requirements of the European Directives:*

**RED 2014/53/EU**

Hiermit wird bestätigt, dass das oben bezeichnete Produkt den Schutzanforderungen der aufgeführten Richtlinien entspricht.

*It is herewith confirmed that the above mentioned product complies with the requirements of the mentioned EU Directives.*

Folgende Normen wurden herangezogen:

*The following standards were applied:*

EN 301 489-1 V2.2.3

EN 61000-6-3:2007 + A1:2011

EN 301 489-1 V2.2.3

EN 61000-6-2:2005

Diese Erklärung wird verantwortlich abgegeben durch:

*This declaration is submitted by:*

Kerpen, Datum 10.01.2022

Unterschrift

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