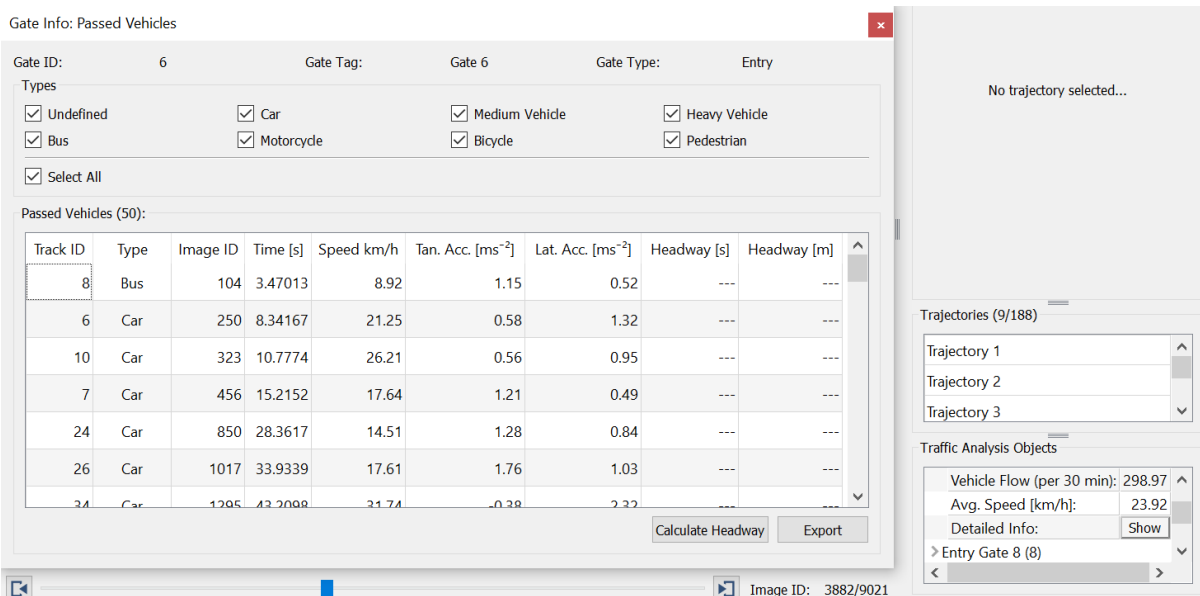




How to export gate crossing data?

When you have successfully set up gates and need to get some analytics.

If you are new here see an article [How to set your own gates](#) to be able to set the data for Gate info: Passed Vehicle export.



Gate Info: Passed Vehicles

Gate ID: 6 Gate Tag: Gate 6 Gate Type: Entry

Types

- Undefined Car Medium Vehicle Heavy Vehicle
- Bus Motorcycle Bicycle Pedestrian
- Select All

Passed Vehicles (50):

Track ID	Type	Image ID	Time [s]	Speed km/h	Tan. Acc. [ms ⁻²]	Lat. Acc. [ms ⁻²]	Headway [s]	Headway [m]
8	Bus	104	3.47013	8.92	1.15	0.52	---	---
6	Car	250	8.34167	21.25	0.58	1.32	---	---
10	Car	323	10.7774	26.21	0.56	0.95	---	---
7	Car	456	15.2152	17.64	1.21	0.49	---	---
24	Car	850	28.3617	14.51	1.28	0.84	---	---
26	Car	1017	33.9339	17.61	1.76	1.03	---	---
24	Car	1205	42.2008	21.74	0.38	2.32	---	---

Buttons: Calculate Headway, Export

Trajectories (9/188)

- Trajectory 1
- Trajectory 2
- Trajectory 3

Traffic Analysis Objects

- Vehicle Flow (per 30 min): 298.97
- Avg. Speed [km/h]: 23.92
- Detailed Info: Show
- Entry Gate 8 (8)

Image ID: 3882/9021

Gates are **virtual lines** which are crossed by vehicles and other tracked objects. You can set **your own gates at any place** in the video and you **can change** them any time you want. Gates are used to track each kind of object in one or both directions or you can set gates to get more advanced analysis such as **O-D matrix, gaptime, time to follow or average speed** of the object within two gates and others. In this article you can see how to export gate crossing data to .CSV file such as following one.

Gate ID	Track ID	Type	Image ID	Time [s]	Speed [km/h]	Tan. Acc. [ms ⁻²]	Lat. Acc. [ms ⁻²]	Headway [s]	Headway [m]
10	60	Car	2764	92.2255	30.978555	0.2386	2.5731	21.1545	117.87
11	60	Car	2493	83.1831	14.569257	1.3356	1.0914	37.5041	51.73
37	60	Car	2714	90.5571	29.470220	0.2038	-3.3251	21.5549	104.00
38	60	Car	2591	86.4530	25.974894	0.6123	-2.9758	18.1181	72.00
13	61	Car	2304	76.8768	33.475431	-0.2222	3.0321	0.7674	6.95
7	62	Car	2786	92.9595	33.698299	1.0688	2.2273	0.6340	5.20
11	62	Car	2615	87.2538	17.905483	2.8307	1.4965	2.1021	4.15
38	62	Car	2695	89.9232	25.423654	0.1609	-3.4165	0.6006	4.25

There are two possibilities how to **export gate crossing** events. You can export data for each gate or you can export overall statistics for all gates that you have set in your video. If you have decided to **export information about one specific gate**, choose the gate in section Traffic Analysis Objects. You can see overall data such as Gate Unique ID, Gate Tag, Passed Vehicles (Count), Vehicle Flow (per 30 min), Avg. Speed [km/h]. Once you click to Show in section Detailed info, new window called Gate Info: Passed Vehicles opens. Here you can see the list of all objects that passed through chosen gate. In the Types field, you can check which types of objects you want to display. If you double-click a track row in the table, a track appears in the scene view.

You can get this information about all virtual gates that you have set within the video.

Gate Info: Passed Vehicles

Gate ID: 6 Gate Tag: Gate 6 Gate Type: Entry

Types

Undefined Car Medium Vehicle Heavy Vehicle
 Bus Motorcycle Bicycle Pedestrian
 Select All

Passed Vehicles (50):

Track ID	Type	Image ID	Time [s]	Speed km/h	Tan. Acc. [ms ⁻²]	Lat. Acc. [ms ⁻²]
7	Car	456	15.2152	17.64	1.21	0.49
8	Bus	104	3.47013	8.92	1.15	0.52
68	Car	2754	91.8918	16.73	1.31	0.52
120	Car	6243	208.308	15.59	1.81	0.64
125	Car	6613	220.654	12.97	1.02	0.67
142	Car	6982	232.966	18.96	-0.06	0.67
129	Car	6696	223.423	16.57	0.10	0.72
182	Car	8812	294.027	19.79	0.81	0.73

Export

Trajectories (9/188)

Trajectory 1

Trajectory 2

Trajectory 3

Traffic Analysis Objects

Vehicle Flow (per 30 min): 298.97

Avg. Speed [km/h]: 23.92

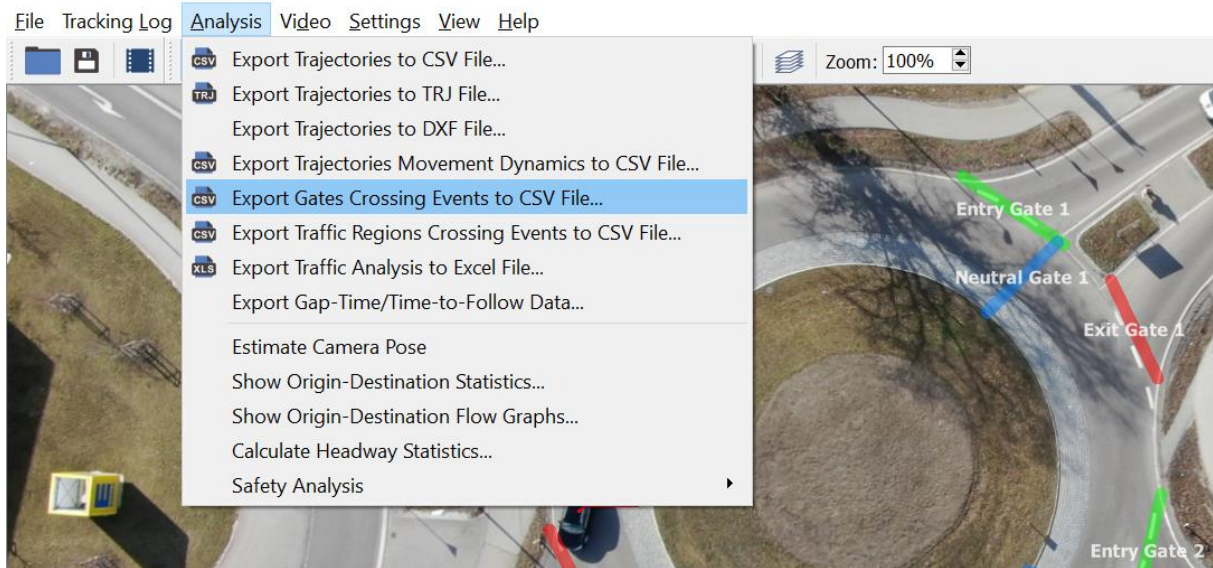
Detailed Info: **Show**

Entry Gate 8 (8)

You can export table to .CSV format for further analysis if needed. See the example below.

Passed vehicles for gate with ID 6. Columns: Track ID									
Track ID	Type	Image ID	Time [s]	Speed [km/h]	Tan. Acc. [ms ⁻²]	Lat. Acc. [ms ⁻²]	Headway [s]	Headway [m]	
8	Bus	104	3.47013	8.9241	1.14614	0.517746	nan	nan	
6	Car	250	8.34167	21.2488	0.578676	1.31923	0.8008	4.50153	
10	Car	323	10.7774	26.2088	0.556461	0.951381	1.33467	8.02244	
7	Car	456	15.2152	17.6436	1.21393	0.49163	2.96963	8.1709	
24	Car	850	28.3617	14.5128	1.28267	0.837327	11.2112	53.9309	
26	Car	1017	33.9339	17.6124	1.76058	1.03331	3.9039	5.42152	
34	Car	1295	43.2098	31.7381	-0.375914	2.32082	8.3083	52.0146	
35	Car	1477	49.2826	22.3321	0.121289	1.0332	5.1051	46.6386	
36	Car	1538	51.3179	25.9946	-0.795202	1.57077	1.001	7.75239	
39	Car	1731	57.7577	25.2413	0.315557	0.804623	5.47213	38.6668	
42	Car	1829	61.0276	26.128	0.887762	1.43329	2.26893	15.4134	
45	Car	1879	62.696	24.3687	0.177479	0.885079	0.7007	4.668	

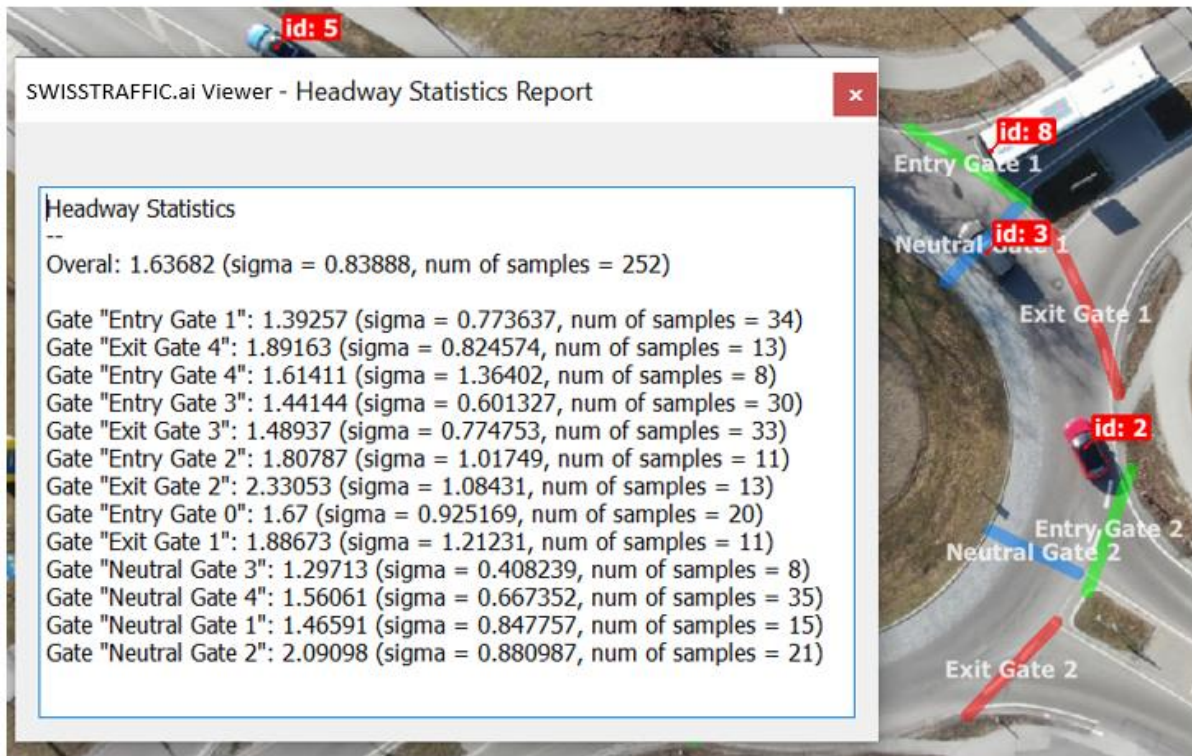
To get **export for all gates** that you have set in the video go to Analysis – Export Gates Crossing Events to CSV File.



Your **extracted** file will include following data.

Gate ID	Track ID	Type	Image ID	Time [s]	Speed [km/h]	Tan. Acc. [ms-2]	Lat. Acc. [ms-2]	Headway [s]	Headway [m]
10	60	Car	2764	92.2255	30.978555	0.2386	2.5731	21.1545	117.87
11	60	Car	2493	83.1831	14.569257	1.3356	1.0914	37.5041	51.73
37	60	Car	2714	90.5571	29.470220	0.2038	-3.3251	21.5549	104.00
38	60	Car	2591	86.4530	25.974894	0.6123	-2.9758	18.1181	72.00
13	61	Car	2304	76.8768	33.475431	-0.2222	3.0321	0.7674	6.95
7	62	Car	2786	92.9595	33.698299	1.0688	2.2273	0.6340	5.20
11	62	Car	2615	87.2538	17.905483	2.8307	1.4965	2.1021	4.15
38	62	Car	2695	89.9232	25.423654	0.1609	-3.4165	0.6006	4.25
9	63	Car	2770	92.4257	20.524925	0.6560	1.0903	1.3680	6.29
12	63	Car	2867	95.6622	26.553175	0.7609	2.7918	7.1405	34.71
8	64	Car	2455	81.9152	24.073993	-0.1792	1.9847	4.3377	39.16
12	64	Car	2630	87.7543	31.521458	0.8375	2.2800	5.2719	38.31
31	64	Car	2536	84.6179	25.638439	0.3945	-3.0343	5.2052	36.82
9	65	Car	2829	94.3943	23.701176	0.8730	0.9424	0.7674	4.17
12	65	Car	2912	97.1637	31.043176	0.4401	2.4156	0.7341	5.89
8	66	Medium Vehicle	2530	84.4177	23.925765	-0.0149	1.2142	1.5015	11.17
15	66	Medium Vehicle	2798	93.3599	28.364495	1.5207	1.9861	10.4771	71.54
31	66	Medium Vehicle	2606	86.9535	25.066196	0.1542	-2.5573	1.7684	11.99
39	66	Medium Vehicle	2737	91.3246	23.812956	0.3698	-2.0995	5.1385	34.15

- **Gate ID** - Unique ID of gate that you have set.
- **Track ID and Type** - Unique object that passed through defined gate (Gate ID).
- **Image ID and Time [s]** - Exact image ID and second of the video, when object passed the gate.
- **Speed, Tan. Acc. [ms-2], Lat. Acc. [ms-2]** - Exact speed and acceleration of the object, when object passed the gate.
- **Headway [s] and Headway [m]** - Is the distance between vehicles (boot of the first vehicle and front of the following vehicle).



If you want to get **visualized export** such as picture or video see article [How to visualize data in the video](#) and [export visualization](#).

Do you want to use gates for advanced analysis? Check other articles:

- [How to export Origin-Destination matrix \(OD matrix\)?](#)
- [How to get safety analysis?](#)
- [How to set and export data from Gap Time and Time to Follow?](#)