

MX Traffic Analyzer[™] USER GUIDE



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MX Traffic Analyzer_ Software to chart data collected by SPEEDCHECK-MX Speed	Traffic Analyzer_ Software to chart data collected by SPEEDCHECK-MX Speed	PROFILE System Serial # Location Carmanah Model Report date Start of log End of log		15%	51 KPH

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1.0 Introduction

1.1 About MX Traffic Analyzer

SPEEDCHECK-MX radar speed signs automatically log every detected vehicle, recording the date, time, speed, and applicable speed limit at the time of detection. The speed limit value programmed into the system serves as the baseline for calculating compliance statistics. If your system uses scheduled speed limit changes (e.g., school zone timing), the compliance data will reflect the correct speed limit in effect at the time, ensuring accurate reporting.

MX Traffic Analyzer is Carmanah's web-based tool for reviewing, filtering, and reporting vehicle speed data collected by SPEEDCHECK-MX signs. With this application, users can:

- Load and review downloaded vehicle data
- Analyze vehicle compliance against posted speed limits
- Filter data by specific dates, days of the week, or times of day
- Exclude unusually low or high speeds to refine reports
- Generate charts to visualize traffic patterns and trends
- Export reports as PDFs or raw data as CSV files for further analysis





Accessing MX Traffic Analyzer 1.2

MX Traffic Analyzer can be accessed by navigating to either URL - carmanah.com/traffic-analyzer or mxcloud.live/trafficanalyzer

çermanah'		Lo	og in to	MX Clo	ud Us	er Guid	e
MX Traffic Analyzer							
Select File			T	ıb	PDF	<u>+</u>	0
Drop or select SPEEDCHECK-MX Vehicle Data ZIP file.							
							_
NOTE MX Traffic Analyzer is freely available without requiring access to MX Clou	hu						

MX Traffic Analyzer is freely available without requiring access to MX Cloud.



MX Traffic Analyzer utilizes locally downloaded vehicle data. See Section 2 for more information.



2.0 Vehicle Data

2.1 Local Data

Local vehicle data is downloaded on site using MX Field App. Visit <u>support.carmanah.com</u> for more information on MX Field App.

See below for more information on local data:

• Local data - each vehicle recorded is individually timestamped





2.2 MX Field App – Local Data

To download vehicle data, follow the steps below when on site with the SPEEDCHECK-MX system:

- 1. Open MX Field App.
- 2. Tap on the system you wish to connect to.
- 3. Tap on Operation and then Vehicle Data.
- 4. Tap on Download. Wait for the data to download. This may take a few minutes depending on how much data is stored.
- 5. A breakdown of the data will appear on screen for you to view.
- 6. Tap on Save Vehicle Data and export to the device you will be using MX Traffic Analyzer with, ideally a tablet, laptop, or desktop.
- 7. Tap on Delete to clear vehicle log and start collecting new data.



NOTE

Vehicle data is exported as a ZIP file.

NOTE

For a simple vehicle report without needing MX Traffic Analyzer, tap on Save Report to export a PDF of the vehicle data.



3.0 MX Traffic Analyzer

3.1 Overview

You will be greeted with the dashboard below once you access MX Traffic Analyzer. The dashboard is segmented into several functions:

- 1. Dading vehicle data (ZIP)
- 2. 🛄 Date, day, and time filtering
- 3. \mathbf{Y} Speed filtering
- 4. III Chart options
- 5. 💷 Generate report (PDF)
- 6. Download raw data (CSV)
- 7. **•** About MX Traffic Analyzer
- 8. Log in to MX Cloud
- 9. MX Traffic Analyzer guide

	Log in to MX Cloud User Guide										
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1	2	3	4	5	6	7					

NUIE

About MX Traffic Analyzer (#7) provides a short description of the tool and a list of licenses it uses.



3.2 Loading Vehicle Data

Click on the folder icon and choose the vehicle data file (.zip) downloaded in <u>Section 2</u>. Each system's data will be contained in separate ZIP files.



Once the data has been loaded you will have access to:

- Data compliance
- Data filtering
- Data charting
- Generate report
- Download raw data

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MX Traffic Analyzer												
Summary	-			B 🛱 Y II. 🕮 ± 🚯								
		86101	12862	73239								
	4	Total Vehicles	Compliant Vehicles	Non-compliant Vehicles								
TOUR SPEED												
C 3												
		4320	15%	51 KPH								
Profile		Daily Average Vehicles	Compliance Rate	85% 85th Percentile								
System Name Metc	hosin Rd NB											
Date From 15 M	lar 2025 14:08											
Date To 04 Ap	pr 2025 12:26	40 KPH	96 KPH									
Latitude 48.4	1974											
Longitude -123	48503	Average Speed	Fastest Speed									
Data Time Zone Amer	rica/Vancouver											

NOTE

Locally downloaded data (MX Field App) contains individually timestamped vehicles.



Data Point	Description
System Name	Name of radar speed sign as set in MX Field App (or MX Cloud).
Date From	Date and time the data set began.
Date To	Date and time when the data set was downloaded.
Latitude/Longitude	Coordinates of the radar speed sign based on internal system GPS.
Data Time Zone	Date and time of data set as per your local browser settings.
Total Vehicles	Total number of vehicles in the data set.
Compliant Vehicles	Number of vehicles at or below the speed limit value(s) set.
Non-compliant Vehicles	Number of vehicles above the speed limit value(s) set.
Daily Average Vehicles	Average daily vehicles calculated based on total vehicles divided by date range.
Compliance Rate	Compliance rate calculated based on speed limit(s) programmed in MX Field App. This is the percentage of vehicles that were logged at or below the speed limit value(s) set.
85 th Percentile	The speed at or below which 85% of the vehicle speeds logged fall under in the data set.
Average Speed	Average speed in the data set.
Fastest Speed	Fastest speed logged in the data set.



3.3 Filtering Vehicle Data

Vehicle data can be filtered in several ways. You can choose to use any combination from the list below. Each filter will stack on top of each other:

- Date range (calendar)
- Days of the week
- Time range
- Speed values

Dat	e Re	estrio	ctior	าร										
Date	Range	9												
Apr	il 202	5 - Ma	y 202	25									<	>
S	М	Т	W	Т	F	S	S	Ν	Λ	Т	W	Т	F	S
		1	2	3	4	5						1	2	3
6	7	8	9		11	12	4	5	5	6	7	8	9	
13	14	15	16	17	18	19	11	1	2	13	14	15	16	17
20	21	22	23	24	25	26	18	1	9	20	21	22	23	24
27	28	29	30				25	2	6	27	28	29	30	31
Days	of the	e Weel	<											
~ 1	Nonday	v	' Tues	day	~	Wednesday	y .	✓ Tł	nursda	ау	~	Friday		
~ :	Saturday	, ·	 Sun 	day										
Time	Rang	е												
) s	tart 12	:00 am	to	End	11:59 pm								
C														
Res	et										C	ancel	A	pply

NOTE

Adding filters will affect your data results. You will see a red dot to denote a filter has been applied. To remove any active filters use the Reset button under each function.

Date Range

This filter allows you to choose between two dates in the data set. Anything outside of this range will be filtered out.

	Date Restrictions														
I	Date I	Range													
	March 2025 - April 2025 <														
	S	М	Т	W	Т	F	S		S	Μ	Т	W	Т	F	S
							1				1	2	3	4	5
	2	3	4	5	6	7	8		6	7	8	9	10	11	12
	9	10	11	12	13	14	15		13	14	15	16	17	18	19
	16	17	18	19	20	21	22		20	21	22	23	24	25	26
	23	24	25	26	27	28	29		27	28	29	30			
	30	31													



Days of the Week

This filter allows you to choose the days of the week within the data set. Any day deselected will be filtered out.

Days of the Week											
🗸 Monday	🗸 Tuesday	✓ Wednesday	🗸 Thursday	🗸 Friday							
🗸 Saturday	✓ Sunday										
Days of the Week											
✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday											
Saturday	Sunday										

Time Range

This filter allows you to choose a start time and an end time in the data set. Anything outside of this range will be filtered out.



Speed Values

This filter allows you to choose the upper and lower speed values in the data set. Anything outside of the boundaries will be filtered out.

Filter Options	3									
Speed Upper Bound										
Filter out data above t	Filter out data above this speed.									
Speed Lower Bo	und									
Filter out data below t	Filter out data below this speed.									
Reset	Cancel Apply									



3.4 Charting Vehicle Data

Vehicle data can be displayed in a variety of charting options:

- Summary
- Volume vs Speed
- Daily Average Volume
- Hourly Average Volume
- Speed vs Time
- Hourly Volume Table
- Hourly Volume by Day Table

For additional functionality, see below:

- 1. Click to add chart to report (see <u>Section 3.5</u>).
- 2. Click L to export chart as an image.





Summary

The summary chart provides detailed compliance data for your system. This is what you'll see after loading the vehicle data into MX Traffic Analyzer.

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MX Traffic Analy	zer		
Summary			B 🛱 Y ılı 🕮 🛨 🚯
	86101	12862	73239
	Total Vehicles	Compliant Vehicles	Non-compliant Vehicles
I	4320	15%	51 KPH
Profile	Daily Average Vehicles	Compliance Rate	85% 85th Percentile
System Name Metchosin Rd NB			
Date From 15 Mar 2025 14:08			
Date To 04 Apr 2025 12:26			
Latitude 48.41974	40 KPH	90 KPH	
Longitude -123.48503	Average Speed	Fastest Speed	
Data Time Zone America/Vancouver			



Volume vs Speed

This chart will display vehicle volume on the Y axis and vehicle speed on the X axis, providing the volume of vehicles for each speed value.





Daily Average Volume

This chart will display vehicle volume on the Y axis and day of the week on the X axis, providing an overview of compliance from Monday through Sunday.











Hourly Average Volume

This chart will display vehicle volume on the Y axis and hour of day on the X axis, providing an overview of compliance for each hour of the day.





Clicking on Compliant or Non-Compliant will remove the series of data from the chart..





Speed vs Time

This chart will display vehicle speed on the Y axis and date on the X axis, providing an overview of compliance for each date in the data set. This data is a combination of all vehicle speeds.





Hourly Volume Table

This table will list vehicle compliance per hour of the day.

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MX Traffic Analyzer

Hourly Volume Table

Hour	Average Compliant	Average Non- Compliant	Total Compliant	Total Non- Compliant	Speed Limits (KPH)		
12:00am	2	28	25	553	30		
1:00am	3	18	18	368	30		
2:00am	2	12	36	249	30		
3:00am	3	14	35	273	30		
4:00am	4	34	81	678	30		
5:00am	4	104	78	2085	30		
6:00am	13	216	263	4314	30		
7:00am	27	216	548	4317	30		
8:00am	79	193	1589	3855	30		
9:00am	51	216	1024	4310	30		
10:00am	52	219	1034	4371	30		
11:00am	51	225	1028	4494	30		
12:00pm	54	218	1072	4359	30		
1:00pm	47	228	901	4340	30		
2:00pm	62	226	1231	4520	30		
3:00pm	70	239	1403	4772	30		
4:00pm	42	238	832	4768	30		
5:00pm	31	232	622	4647	30		

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Hourly Volume by Day Table

This table will list hourly vehicle volume for each day of the week.

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Μ	IX Tra	ffic A	nalyze	er										
Hourly V	olume by [Day Table							3	Ŧ	սե	PDF	Ŧ	0
Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Weekday Average	Weekend Average					
12:00am	61	64	65	55	92	86	155	22	48					
1:00am	21	35	60	53	36	61	120	14	36					
2:00am	41	32	28	31	38	50	65	11	23					
3:00am	36	41	41	52	50	38	50	15	18					
4:00am	104	124	148	122	143	55	63	43	24					
5:00am	359	385	409	358	388	110	154	127	53					
6:00am	813	857	828	813	752	235	279	271	103					
7:00am	847	843	884	840	784	329	338	280	133					
8:00am	861	907	858	915	920	439	544	297	197					
9:00am	817	860	803	775	828	512	739	272	250					
10:00am	790	756	816	816	812	602	813	266	283					
11:00am	817	822	823	860	813	594	793	276	277					
12:00pm	791	846	774	818	691	652	859	261	302					
1:00pm	794	790	809	801	568	632	847	269	296					
2:00pm	827	852	835	840	603	877	917	283	299					
3:00pm	921	956	1019	911	638	858	872	318	288					
4:00pm	803	908	857	839	577	834	782	285	269					
5:00pm	744	788	791	801	563	825	757	263	264					



3.5 Generating Report (PDF)

Vehicle data can be exported into a PDF report. To generate a report, follow the steps below:

- 1. Load vehicle data as per Section 2.
- 2. Apply any filters, as per <u>Section 3.3</u>, if required.
- 3. Go to each chart you wish to add to the report.
 - a. The summary page will automatically be added by default. Tables are not able to be added to the report.
- 4. Click on the Add to Report button (1).
- 5. Click on the Generate Report button (Ш).
- 6. Click on Download.
- 7. View and distribute the PDF as needed.



NOTE

If a filter has been applied to the data the report will be noted on each chart.



3.6 Downloading Raw Data (CSV)

Vehicle data can be exported into a .csv file. To generate the file, follow the steps below:

- 1. Load vehicle data as per Section 2.
- 2. Apply any filters, as per <u>Section 3.3</u>, if required.
- 3. Click on Download CSV button (上).
- 4. View and distribute the CSV as needed.

А	В	С	D
timestamp	speed	speed_limit	units
3/15/2025 14:08	42	30	kph
3/15/2025 14:09	52	30	kph
3/15/2025 14:09	43	30	kph
3/15/2025 14:09	41	30	kph
3/15/2025 14:09	29	30	kph
3/15/2025 14:10	42	30	kph
3/15/2025 14:10	42	30	kph
3/15/2025 14:11	48	30	kph
3/15/2025 14:11	22	30	kph
3/15/2025 14:11	50	30	kph
3/15/2025 14:11	49	30	kph
3/15/2025 14:12	46	30	kph
3/15/2025 14:12	40	30	kph
3/15/2025 14:12	34	30	kph
3/15/2025 14:12	31	30	kph
3/15/2025 14:12	30	30	kph
3/15/2025 14:12	29	30	kph
3/15/2025 14:13	24	30	kph
3/15/2025 14:13	40	30	kph
3/15/2025 14:13	49	30	kph
3/15/2025 14:14	46	30	kph
3/15/2025 14:14	47	30	kph
3/15/2025 14:14	41	30	kph
3/15/2025 14:14	56	30	kph
3/15/2025 14:14	48	30	kph
3/15/2025 14:14	43	30	kph
3/15/2025 14:14	55	30	kph
3/15/2025 14:14	45	30	kph
3/15/2025 14:15	35	30	kph
3/15/2025 14:15	37	30	kph
3/15/2025 14:15	38	30	kph
3/15/2025 14:15	34	30	kph
3/15/2025 14:15	45	30	kph
3/15/2025 14:15	37	30	kph
3/15/2025 14:16	46	30	kph
3/15/2025 14:17	43	30	kph
3/15/2025 14:17	36	30	kph
3/15/2025 14:17	32	30	kph
3/15/2025 14:17	44	30	kph
3/15/2025 14:17	42	30	kph
3/15/2025 14:17	43	30	kph
3/15/2025 14:17	13	30	крh
3/15/2025 14:18	31	30	Kph



Raw data export can be filtered or unfiltered data. To download the original raw vehicle data, clear all filters before exporting (see <u>Section 3.3</u>).





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