

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

1.	SOF1	TWARE	4
1	L.1	EVOCOM/EVOGRAPH	4
	1.1.1	1 Installation	4
	1.1.2	2 Presentation of the software	. 10
1	L.2	Evomobile	. 10
	1.2.1	1 Installation	. 11
	1.2.2	2 Presentation of the software	. 11
2.	CON	NECTION TO THE RADAR SPEED SIGN	12
2	2.1	USB CONNECTION VIA EVOCOM	. 12
2	2.2	BLUETOOTH CONNECTION VIA EVOCOM	. 13
2	2.3	BLUETOOTH CONNECTION VIA EVOMOBILE	. 14
3.	SPE	CIFIC PROGRAMMING	16
3	3.1	SETTING A SPECIFIC SPEED	. 20
3	3.2	TRICOLOR DISPLAY	. 21
Э	3.3	SPY MODE	. 21
	3.3.1	1 Activation of spy mode via Evocom:	. 21
	3.3.2	2 Spy mode activation via EVOMOBILE:	. 22
3	3.4	FLASH MODE	. 23
Э	3.5	TIME SLOTS OR SCHOOL MODE	. 24
3	3.6	ALTERNATIVE DISPLAY	. 25
3	3.7	Amber display only	. 25
4.	MO	DIFICATION OF THE MESSAGES	26
2	4.1	Edition of a message	. 27
Z	1.2	EDITION OF AN IMAGE MESSAGE	. 28
2 5.	1.2 SUM	Edition of an image message	28 <mark>29</mark>
2 5.	1.2 SUM 5.1	EDITION OF AN IMAGE MESSAGE	28 29 29
2 5.	1.2 SUM 5.1 5.2	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE	28 <mark>29</mark> 29 30
5. 5.	5.1 5.2 5.2	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE TISTIC DATA	28 29 29 30 31
5. 5. 6.	4.2 SUM 5.1 5.2 STA	EDITION OF AN IMAGE MESSAGE	28 29 30 31 31
5. 5. 6.	5.1 5.2 5.1 5.2 5.1 5.1	EDITION OF AN IMAGE MESSAGE	28 29 30 31 31
5.	 1.2 SUM 5.1 5.2 STA 5.1 5.2 6.2 1 	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE	28 29 30 31 31 31
5. 5. 6.	5.1 5.2 5.1 5.2 5.1 5.2 6.2.1 6.2.2	EDITION OF AN IMAGE MESSAGE	28 29 30 31 31 31 31 33
5. 5. 6.	5.1 5.2 5.1 5.2 5.1 5.2 6.2.1 6.2.2 5.3	EDITION OF AN IMAGE MESSAGE IMARY	28 29 30 31 31 31 33 33
5. 5. 6. 6.	5.1 5.2 5.1 5.2 5.1 5.2 6.2.1 6.2.2 5.3 6.3.1	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 33 35 35
5. 5. 6. 6.	5.1 5.2 5.1 5.2 5.1 5.2 6.2.1 6.2.2 5.3 6.3.1 6.3.2	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 33 35 35 37
5. 5. 6. 6.	4.2 SUM 5.1 5.2 STA 5.1 6.2.2 5.3 6.3.1 6.3.2 6.3.3 6.3.3	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 29 30 31 31 31 31 33 35 35 37 38
5. 5. 6. 6.	4.2 SUM 5.1 5.2 5.1 6.2.2 6.2.1 6.2.2 5.3 6.3.1 6.3.2 6.3.3 6.3.4	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE TISTIC DATA SETTINGS FOR ADVANCED STATISTICS MANAGEMENT FUNCTIONS RECOVERY OF STATISTICS DATA. Recovery of statistics data via EVOCOM Recovery of statistics data via EVOMOBILE USE OF STATISTICS DATA Graphics visualization Average speeds Maximum speeds. Number of vehicles.	28 29 30 31 31 31 33 35 35 37 38 38
5. 5. 6. 6.	4.2 SUM 5.1 5.2 5.1 5.2 6.2.1 6.2.2 5.3 6.3.1 6.3.2 6.3.3 6.3.4 6.3.5	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 31 33 35 35 37 38 38 39
5. 5. 6. 6.	SUM 5.1 5.2 STA 5.1 5.2 6.2.1 6.2.2 5.3 6.3.3 6.3.4 6.3.5 6.3.6	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 33 35 35 35 38 38 39 41
2 5. 6. 6.	4.2 SUM 5.1 5.2 STA 5.1 6.2.2 5.3 6.3.1 6.3.2 6.3.3 6.3.4 6.3.5 6.3.6 5.4	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 33 35 35 35 38 38 39 41 41
5. 5. 6. 6.	4.2 SUM 5.1 5.2 STA 5.1 6.2.1 6.2.2 6.3.1 6.3.2 6.3.3 6.3.4 6.3.6 5.4 6.4.1	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE TISTIC DATA SETTINGS FOR ADVANCED STATISTICS MANAGEMENT FUNCTIONS RECOVERY OF STATISTICS DATA Recovery of statistics data via EVOCOM Recovery of statistics data via EVOMOBILE USE OF STATISTICS DATA Graphics visualization Average speeds Maximum speeds Maximum speeds Mumber of vehicles Speed distribution Speed distribution EVOGRAPH FUNCTIONS Dates selection	28 29 30 31 31 31 35 35 37 38 38 39 41 41
2 5. 6. 6. 6.	4.2 SUM 5.1 5.2 STA 5.1 6.2.1 6.2.2 6.3.1 6.3.2 6.3.3 6.3.4 6.3.6 5.4 6.4.1 6.4.2	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE TISTIC DATA SETTINGS FOR ADVANCED STATISTICS MANAGEMENT FUNCTIONS RECOVERY OF STATISTICS DATA <i>Recovery of statistics data via EVOCOM</i> <i>Recovery of statistics data via EVOCOM</i> <i>Recovery of statistics data via EVOMOBILE</i> USE OF STATISTICS DATA <i>Graphics visualization</i> <i>Average speeds</i> <i>Maximum speeds</i> <i>Number of vehicles</i> <i>Speed distribution</i> <i>Speed distribution</i> <i>Percentiles</i> EVOGRAPH FUNCTIONS. <i>Dates selection</i> <i>Printing to a PDF file</i>	28 29 30 31 31 31 35 35 35 35 35 35 37 38 38 39 41 41 42
2 5. 5. 6. 6. 6.	4.2 SUM 5.1 5.2 6.2.1 6.2.2 5.3 6.3.1 6.3.2 6.3.3 6.3.4 6.3.5 6.3.4 6.3.4 6.4.1 6.4.3	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM EVOMOBILE TISTIC DATA SETTINGS FOR ADVANCED STATISTICS MANAGEMENT FUNCTIONS RECOVERY OF STATISTICS DATA Recovery of statistics data via EVOCOM Recovery of statistics data via EVOMOBILE USE OF STATISTICS DATA Graphics visualization Average speeds Maximum speeds Maximum speeds Number of vehicles Speed distribution Percentiles EVOGRAPH FUNCTIONS Dates selection Printing to a PDF file Export to Excel	28 29 30 31 31 31 33 35 35 37 38 38 39 41 41 42 42
5. 5. 6. 6.	4.2 SUM 5.1 5.2 6.1 6.2.2 6.3.1 6.3.2 6.3.3 6.3.4 6.3.5 6.3.6 5.4 6.4.1 6.4.3 6.4.4	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 30 31 31 31 31 33 35 35 37 38 38 39 41 41 42 42 42
2 5. 6. 6. 6. 6. 7.	4.2 SUM 5.1 5.2 STA 5.1 6.2.1 6.2.2 5.3 6.3.2 6.3.3 6.3.4 6.3.5 6.3.6 5.4 6.4.1 6.4.2 6.4.4 CON	EDITION OF AN IMAGE MESSAGE IMARY EVOCOM	28 29 29 30 31 31 31 31 33 35 35 37 38 38 38 38 39 41 41 41 42 42 42 42

Thank you for choosing the EVOLIS radar speed sign.

The sign will encourage drivers to slow down by displaying:

- Their speed,
- A flashing "danger" symbol for excessive speeds (optional),
- 5 (modifiable) messages according to their speed.

The system also records traffic statistics (average speeds, maximum speeds, number of vehicles, distribution by speed range and percentiles, and data for one or both traffic directions).

Our Evocom/Evograph software is used to set up the system and download the statistics via USB cable (standard), Bluetooth (standard), Smartphone (Evomobile app) and via an internet connection (Evoweb system option).

This user manual covers the following models:

Please note that depending on the model, some options may not be available. Not all versions are available in all countries.





1.1 Evocom/Evograph

Our software and user manuals are available on our website www.elancity.net in the "Our services" tab.



Click on the Evocom Evograph link.

The EVOLIS Radar Speed Sign

- Evolis Solution User Guide: Download
- Evolis Solution Amber User Guide: Download
- Evolis Solution XL User guide: Download
- EVOLIS Vision Set-up Guide : Download
- Software (Set-up and Traffic Data managment): <u>Evocom Evograph 5.39</u>
- Evomobile User Guide: <u>Download</u>

1.1.1 Installation

We recommend using Windows 10 or Windows 11 to install the Evocom software. As earlier versions of Windows are no longer supported by Microsoft, compatibility problems may occur.

Once the software installer has been downloaded, open the Evosetup.exe file.



Please note that you must have administrator rights on your computer.

Please follow the steps below:

Select	Setup Language	×
<u></u>	Select the language to use during the installation.	
	English	~
	OK Cancel	

Select your language and click on "OK" to continue.

Click on "Next"

📥 Setup - E	vocom		-		\times
	This will This will	come to the and	Evocom	Setup	D
		(Next	Cance	1
Setup - Evo	ocom nation Location		_		×
Where sho	ould Evocom be installed?				COM
Se	etup will install Evocom into	the following folder.			
To continu	e, click Next. If you would	like to select a differe	ent folder, click	Browse.	
C:\Progra	m Files (x86)\Evocom			Browse	
At least 20	15.0 MB of free disk space i	is required.			
		Deals			

To continue, click on "Next". If you want to select a different installation location, click on "Browse".

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🛃 Setup - Evocom	_		\times
Select Start Menu Folder Where should Setup place the program's shortcuts?			evo com
To continue, click Next. If you would like to select a different	ving Start N folder, click	1enu folder. Browse.	
Evocom		Browse	
English	Next	Can	cel

Click on "Next" to continue.

If you want to select another location to create shortcuts, click on "Browse".

🛃 Setup - Evocom		—		×
Select Additional Tasks Which additional tasks should be performed?				euo Com
Select the additional tasks you would like Set then click Next.	up to perform	while installin	ig Evocom	۱,
Additional icons:				
✓ Create desktop shortcuts				
For all users				
Current user only				
Add shortcuts to taskbar				
English				
	Back	Next	Ca	ancel

Click on "Next" to continue.

If you want to select additional installation shortcut options, click on the desired options then click on "Next".

📥 Se	tup - Evocom	_		\times
Rea	ndy to Install Setup is now ready to begin installing Evocom on your compute	er.		evo com
1	Click Install to continue with the installation, or click Back if you hange any settings.	want to re	eview or	
	Destination location: C:\Program Files (x86)\Evocom Start Menu folder: Evocom			A
	Additional tasks: Additional icons: Create desktop shortcuts For all users			
	4		Þ	•
English	Back	Install) Ca	ancel

Click on "Install" to continue.

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 6 of 43

Setup - Evocom	_		\times
Installing Please wait while Setup installs Evocom on your computer.			evo com
Extracting files C:\Program Files (x86)\Evocom\Qt5Gui.dll			
Finilish			
ungron i		C	ancel

The software is being installed.

📥 Setup - Evocom	- 🗆 X
evo	Completing the Evocom Setup Wizard
	Setup has finished installing Evocom on your computer. The application may be launched by selecting the installed shortcuts.
	Click Finish to exit Setup.
	View Readme.txt
	USB driver installation
	Start program at end of installation
	Finish

Your software is installed. Click on "Finish" to continue.

At the end of the installation, the program will automatically start the installation of the USB and Bluetooth drivers necessary for the communication between your computer and the radar speed sign.

Please follow the steps below:



Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 7 of 43

Click on "Extract" to continue.



Click on "Next" to continue.

icense Ag	preement		
Ń	To continue, accept the following lice agreement, use the scroll bar or press	nse agreement. To read the Page Down key.	the entire
	IMPORTANT NOTICE: PLEASE RE INSTALLING THE RELEVANT SOF This licence agreement (Licence) is (Licensee or you) and Future Techno of 2 Seaward Place, Centurion Busin Scotland (UK Company Number SC1 driver software provided by the Licen	AD CAREFULLY BEFOR TWARE: a legal agreement betwee logy Devices Internation ess Park, Glasgow G41 36640) (Licensor or we) f sor(Software).	E In you al Limited IHH, or use of
	BY INSTALLING OR USING THIS S	Save As	E TO THE
	 I accept this agreement I don't accept this agreement 	Save As	Finit

Click on "I accept the terms of this agreement" then on "Next" to continue.



The installation of the drivers is finished. Click on "Finish" to continue. Once the installation is finished, the Evocom software will start automatically.

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

😸 EvoCom	>
EVOCOM - REVISION HISTORY	
This page allows you to follow the evolution of our EvoCom / EvoCraph software suite. You can easily check when software updates have been published, what features have been added or changed, and verify compatibility with the firmware revisions installed in your products.	
EvoCom Revision 5.34	
March 2023	
Compatibility of the new EVOLIS VISION radars	
Support for the latest generation Elan Cité V5.0 card	
Finnish language integration	
• Bug fixes	
EvoCom Revision 5.0	
September 2020	
Compatible V4.1 Elandity hardware latest version	
BLE (Bluetoth Low Energy) support	
Statistics storage path improvement	
Selection of the communication port through an automatic list	
EvoCom Revision 4.0	
March 30, 2018	
Compatible V4 Elancity latest version	
Always display this notification	

The first time the software is opened, the version history will be displayed. Uncheck the "Show on startup" box, then click on "OK" if you do not want it to be displayed the next time you start the software.

1.1.2 Presentation of the software

By default, the software presents a summary of the statistics available in your radar speed sign.





1.2 Evomobile

The app is available from the Google Play Store and the App Store. Search for "EvoMobile" in the search bar and install the application.







Evomobile in the App Store (apple.com)

Minimum versions required:

- Android 5 (Smartphone)
- iOS 10 (iPad and iPhone)

Please note that the iOS application is only compatible with radar speed signs with BLE technology, manufactured from 2021

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023 Page 10 of 43

1.2.1 Installation

Once the application is downloaded from your store, press on:



You will then be asked for access authorizations. Make sure you accept them all:



1.2.2 Presentation of the software



🖉 Reload the radar speed sign's parameters.

Q Detect new equipment.

Display the application details.

Statistics: Retrieve the statistics stored in your radar speed sign.

Configuration: Change the name or your radar speed sign, manage the configurations, delete data, etc.

Simulation: Test the radar speed sign's active configuration.

Diagnostics: Information on the health of your radar speed sign (battery level, equipment condition, license update, etc.).

EvoCloud (Option): Synchronize GPRS data.

EvoMap (Option): Locate your radar speed sign on a map.

2. CONNECTION TO THE RADAR SPEED SIGN

2.1 USB connection via EVOCOM

Connect your computer to the radar speed sign via the USB cable provided



VISION

SOLUTION





Position the speed dial on the speed of your choice on the SOLUTION model Press and hold the key to turn. the radar speed sign "ON" on the VISION model

Start the Evocom program available on your desktop.

Click on "yes"

Evocom ×

Yes

No

A window allows you to select your product.



Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 12 of 43

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2.2 Bluetooth connection via EVOCOM

The Solution radar speed sign communicates via Bluetooth directly with your laptop (if equipped with the integrated module) or via a Bluetooth key (optional item for PC not equipped with the internal module).

Usually, the transfer takes place in a maximum range of approximately 5 to 10 meters. Please note, the connection may be disrupted by an athermic windscreen or weather conditions.



On the desktop of your PC, select Bluetooth and click on the icon to make sure that Bluetooth is activated.

Turn the radar speed sign on and next to your computer.



Start a search for peripheral devices via the menu "Add a Peripheral". Your PC will automatically detect all the devices within its range. In the list, search for the device you want to connect with. "ELANCITE_RADAR_V4_XXXX", "ELAN4-XXXX" or "ELAN5-XXXX"



Click on "Connect". EVOCOM will ask you for the Bluetooth security code when you first connect to your equipment. The radar speed sign will then be recognized automatically.

If you are asked for a code at this step (Previous versions of radar speed signs), enter the Bluetooth code indicated in the document delivered with the manual and on the door keys.





A message will indicate the operation has been successful.



Start the Evocom program available on your desktop.

Click on "yes"



A window allows you to select your product.

Transn	nission port selection	Colort using device from the list	×
		and click OK	
*	СОМЗ		
Ŷ	COM9 D30CZENEA		
*	ELAN5-7709 00:21:7E:70:EA:56		
*	ELAN5-871A 00:21:7E:70:64:54		
*	ELAN4-25D9 00:80:25:F3:1B:AD		

On ELAN4_XXXX and ELAN5_XXXX models you will be asked for the Bluetooth code at this step during the first connection.

2.3 Bluetooth connection via EVOMOBILE

To connect to the radar speed sign in the best possible conditions, you must be with **10 meters** of the device.

On your Smartphone, click on the application icon:

evo
MOBILE
1

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 14 of 43

The application will automatically search for available Bluetooth devices.



Your radar speed sign will appear with the name "ELANCITE_RADAR_V4_XXXX", "ELAN4-XXXX" or "ELAN5-XXXX"

You will need the 4-digit PIN code delivered with your equipment.

- 1. Click on your device.
- 2. Enter the code.
- 3. Then click on "OK".
- 4. The association with your equipment has been completed.



IF YOUR RADAR SPEED SIGN DOES NOT APPEAR IN THE LIST, MAKE SURE THAT BLUETOOTH IS ACTIVATED ON YOUR SMARTPHONE

3. SPECIFIC PROGRAMMING

Specific programming allows you to modify the different parameters of your radar speed sign if you wish a set-up other than the one proposed on the pre-programmed positions.



The option to activate "spy" mode is only available with the EVOMOBILE application. A computer with the EVOCOM software must be used for any other modifications.

Reminder of the pre-programmed speed positions:

EVOLIS SOLUTION:

	Description	Minimum speed triggering the display	Speed triggering a color change		
Speed limit selector	Visual		YOUR SPEED	Speed triggering flashing numbers	
20 n	nph	9 mph	21 mph	26 mph	
30 mph		9 mph	31 mph	36 mph	
50 mph		9 mph	51 mph	56 mph	
60 mph		9 mph	61 mph	66 mph	
70 mph		9 mph	71 mph	76 mph	
SP / 30) mph	9 mph	31 mph	36 mph	

The "SP" positions correspond to the factory settings for the 30-mph zone

The speed selection dial or the speed limit selector must be set to "SP" to be able to program the different specific configuration modes defined below.

Evolis Vision pre-programmed settings

	Description	Minimum speed triggering the display	Speed triggering a color change		
Speed limit selector	Visual			Speed triggering flashing numbers	
20 mph		9 mph	21 mph	26 mph	
25	mph	9 mph	26 mph	31 mph	
30	mph	9 mph	31 mph	36 mph	
35	mph	9 mph	36 mph	41 mph	
40	mph	9 mph	41 mph	46 mph	
45	mph	9 mph	46 mph	51 mph	
50 mph		9 mph	51 mph	56 mph	
55 mph		9 mph	56 mph	61 mph	
60	mph	9 mph	61 mph	66 mph	
SP /	65 mph	9 mph	65 mph	71 mph	

The "SP" positions correspond to the factory settings for the 65-mph zone

* Text display not available on Mobility and Vision XL models

To change these settings, please refer to the Evocom software user manual.

Evolis Vision AMBER pre-programmed settings

	Description	Minimum speed triggering the display	Maximum speed displayed	
Speed limit selector	Visual	YOUR SPEED	YOUR SPEED	Speed triggering flashing numbers
20) mph	9 mph	21 mph	21 mph
2	5 mph	9 mph	26 mph	26 mph
30) mph	9 mph	31 mph	31 mph
3	5 mph	9 mph	36 mph	36 mph
40) mph	9 mph	41 mph	41 mph
4	5 mph	9 mph	46 mph	46 mph
50) mph	9 mph	51 mph	51 mph
5	5 mph	9 mph	56 mph	56 mph
60) mph	9 mph	61 mph	61 mph
SP /	65 mph	9 mph	66 mph	66 mph

The "SP" positions correspond to the factory settings for the 65-mph zone

* Text display not available on Mobility and Vision XL models

To change these settings, please refer to the Evocom software user manual.

Evolis Vision XL pre-programmed settings

	Description	Minimum speed triggering the display	Maximum speed displayed		
Speed limit selector	Visual	YOUR SPEED	YOUR SPEED	Speed triggering flashing numbers	
2	5 mph	9 mph	26 mph	26 mph	
3(0 mph	9 mph	31 mph	31 mph	
3	5 mph	9 mph	36 mph	36 mph	
40	0 mph	9 mph	41 mph	41 mph	
4	5 mph	9 mph	46 mph	46 mph	
50	0 mph	9 mph	51 mph	51 mph	
5	5 mph	9 mph	56 mph	56 mph	
60	0 mph	9 mph	61 mph	61 mph	
6	5 mph	9 mph	66 mph	66 mph	
SP /	70 mph	9 mph	71 mph	71 mph	

The "SP" positions correspond to the factory settings for the 70-mph zone

* Text display not available on Mobility and Vision XL models

To change these settings, please refer to the Evocom software user manual.

3.1 Setting a specific speed

Once connected to the radar speed sign via EVOCOM, click on the Settings tab



1. Change the name of the radar speed

2. Change the different thresholds to change the speed color.

3. Activate the different specific modes,

4. Change the different thresholds to

Threshold from which the radar speed sign displays a message.

Threshold to change the speed

Threshold to trigger flashing of the

Threshold to display "DANGER" (anti-

In this example, message 1 is triggered from 13 mph, until message 2 is triggered from 19 mph

Once the settings are changed, click on the button

to load the settings in the radar speed sign.

Page 20 of 43 Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

3.2 Tricolor display

3 color display: (this mode is deactivated in the factory set-up).

Green	For speeds below the speed limit
Amber	For speeds close to the speed limit
Red	For speeds above the speed limit

Once connected to the radar speed sign via EVOCOM, click on the Settings tab

THRESH	OLDS	_							
Minimum speed to be displayed		÷	1	1	T.	E.	9	+	Mph
Red speed display threshold		ï	ī	ī	ĩ	ï	13	÷	Mph
Amber margin before Red display			-	١,	ï		3	\$	Mph
Flashing speed display threshold		1	ĩ	т	Т	T.	16	+	Mph
Maximum speed displayed		j.	1	Ţ	T.	I.	19	•	Mph
Relay (2nd machine) trigger	1	1	,	1	ï	i.	124	-	Mph
Sthree-color display (green/amber/red)									

Check the "three color display" box.

Set the threshold before the display changes to red.

Display in amber = Speed triggering a color change - warning threshold before display changes to red.

In this example, display in amber from 10 mph to 13 mph

Once the settings are changed, click on the button **I** to load the settings in the radar speed sign.

3.3 Spy mode

The "Spy" option allows you to deactivate the speeds and messages display while recording the traffic data.

This option can be activated either by the EVOCOM software or by the EVOMOBILE application.

3.3.1 Activation of spy mode via Evocom:

Once connected to the radar speed sign via EVOCOM, click on the Settings tab then select "Yes" in the "SPY" zone.

	📨 🗐 🛛 🤜 🗸 😂		Firmware revision 502
Statistics	Identification: EVOLIS VISION	HARDWARE	
Settings	THRESH Minimum speed to be displayed	HOLDS	Mph One way (incoming)
Reseller	Red speed display threshold	13	Mph vwo-way (in/out)
T incorner	Amber margin before Red display	3 \$	Mph SPY MODE
Easton.	Flashing speed display threshold	16 🗢	Mph Yes O No
Factory	Maximum speed displayed	19 🕏	Mph
Transmission	Relay (2nd machine) trigger	124 🕏	Mph
~	three-color display (green/amber/red)		
Messages	Time slot display mode enabled	Ves No	
A messages	Warning Triangle display enabled	• Yes • No	
Summan.	Dynamic display function	🔾 Yes 💿 No 🛛	
Summary	Amber only display	🔘 Yes 💿 No	
	MESSAGES		
	Message #1 13	Mph Flash	mode () Yes O No CLOCK
	Message #2	🗭 Mph	at the second
	Message #3	B 🗭 Mph	14:38
	Message #4	B 🗭 Mph	12/04/2023
	Managa di	Mah	

Once connected to the sign via EVOCOM on the Settings tab then click on SPY mode "YES."

Once the settings are changed, click on the button

to load the settings in the radar speed sign.

3.3.2 Spy mode activation via EVOMOBILE:

Once connected to the radar speed sign via EVOMOBILE on the Settings tab then click on the "SPY" button.





Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

3.4 Flash mode

The "FLASH" option allows you to activate a flashing light when a vehicle exceeds the programmed speed limit.



Activation of flash mode via Evocom:

Once connected to the radar speed sign via EVOCOM, click on the Settings tab then select "YES" in the "FLASH mode" zone.



Once the settings are changed, click on the button **I** to load the settings in the radar speed sign.

Select the desired triggering speed.

Please note, for example, to trigger above 20 mph, enter 21 mph

Select your type of flash:



Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

3.5 Time slots or school mode

The "Time slot display" option allows your radar speed sign to be programmed differently depending on the day and operating hours.



Activation of "Time slots display" mode:

Once connected to the radar speed sign via EVOCOM, click on the Settings tab then click on "YES" in the "Time slot display" zone.

Enter the settings for the desired days and operating hours.

Set the different thresholds for the speed display and the messages then click on "OK."

Only the diffusion of Message 5 is activated during the selected periods.

By default, message 5 is the caution school message. In can be modified in the "message" tab



Outside the selected time slots, the radar speed sign will operate as per the "SP" mode settings, unless the "Radar operation restricted to these time slots" box is checked. The sign will then be in "STANDBY" mode outside of the time slots.

Once the setting is changed, click on the button

to load the settings in the sign.

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023 Page 24 of 43

3.6 Alternative display

This setting, activated by default, allows you to display a "DANGER" warning triangle:



• Either intermittently, with the detected speed, from the speed triggering the danger warning symbol.

• Or permanently displayed (which replaces the speed display) from the speed triggering the danger warning symbol.

The command to activate this function is in the same "Complementary mode" dialogue box.

	COMPLEMENTARY MODES
Time slot display mode enabled	🔾 Yes 💽 No 🛄
Warning Triangle display enabled	🔾 Yes 🔘 No 🛛
Dynamic display function	🔾 Yes 🔹 No 🛛
Amber only display	🔿 Yes 🗿 No

Click on "yes" to activate the alternative display, then select the operating mode required.



3.7 Amber display only

THRESHOLDS

Once activated, this function forces the speed display to amber.

The command to activate this function is in the same "Complementary mode" dialogue box.

	COMPLEMENTARY MODES	-
Time slot display mode enabled	🔾 Yes 🔇 No 📖	
Warning Triangle display enabled	● Yes ○ No	
Dynamic display function	🔾 Yes 🗿 No 🛛	
Amber only display	🔿 Yes 💿 No	

Once activated, the speed thresholds modification panel will be modified:

Minimum speed to be displayed	9 😫 Mph		
Flashing speed display threshold	↓	1.	Threshold from which the radar speed sign displays a message
Maximum speed displayed	↓ 19 ♣ Mph	2.	Threshold to trigger flashing of the speed display
Relay (2nd machine) trigger	124 🖨 Mph	3.	Threshold to display "DANGER" (anti-race mode)
three-color display (green/amber/red)			

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Page 25 of 43 Updated on: 03/10/2023

4. MODIFICATION OF THE MESSAGES

To modify your default messages, connect to the radar speed sign via EVOCOM and click on the "Messages" tab.



The use of an **amber "full graphic 64 x 16 cm (l x h) matrix**. Pitch (gap between the center of each LED): 10 mm **Offers a wide choice of message formats,** with the possibility of writing two lines of text.

This allows you to enter 5 messages (text or image) displayed automatically depending on the speed.

• Evocom					—		×
le <u>H</u> elp							
Ctatistics	📁 🗐	📕 a″ a″ 🗉	Ξ Ξ 🔳	📲 🎩 🥦 🤜		 	-
			MES	SAGE LIST			
		Tex	t		Image		
Settings	1			- none -			
	2			- none -			
Messages	3			- none -			
	4			- none -			
💭 Summary	5			- none -			
				_			
	Model	Evolis solution	~		Erase	Erase	all
				Message			
	Text:					Valida	ate
	Symbol:	- none -	~				
							0.0.0
							0.0.0
							0 0 0
			00000000000000000000000000000000000000			000000000000000000000000000000000000000	ŝ
	Cife at a	5.d ana					
	Effecti	rui page		~			
IA		Internet					

The messages saved in the Evolis memory are not visible on the Evocom interface. To display the existing messages on the device, click on () to launch test mode.

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 26 of 43

4.1 Edition of a message

🚟 Evocom								×
<u>File</u> <u>H</u> elp								
Statistics	1	🛚 🔳 a* a*	EES	I II II	💶 🤻 🛤		×	
	(MESSAGE LI	ST			
-	_		Text			Image		
Settings	1				- none -			
	2				- none -			
Messages	3				- none -			
	4				- none -			
🔅 Summary	5				- none -			
	Text:			Message]	Valic	Jate
	Symbol:	- none -		~				_
	Effect:	Full page		~	~			
PM9	» 🖻 🤇	Internet						

Click on the message you want to change.

In the text field, enter the message you want to display. It is automatically simulated in the matrix using the resolution of the Evolis LED matrix.



You can choose to display the messages on one or two lines by increasing/reducing the size of the characters.

With the icon you can choose the type and size of the font.

Then click on the "Send" button . A progress bar will indicate the transfer status and completion.

Legend for other message setting icons



	📂 💾	🛛 af a	a' E E	3 🔳	4 <u>1</u>	× .		×
Statistics	6			MESS	AGE LIST			
			Text				Image	
Settings	1				- no	ne -		
	2				- no	ne -		
Messages	3				- no	ne -		
	4				- no	ne -		
Summary	5				- no	ne -		
	Text:							Valida
	Symbol:	Thank You		~				
		Thank You Warning!			:			:: :
		Slow down Danger						
		Smiley Sad Face		1				
		Speed bump/bu	mpy road					
		School						
		School Crossroads						
		School Crossroads	# #			••		

4.2 Edition of an image message

Click on the message you want to change.

In the "Symbol" drop down menu, select the desired image for message 1. You can enhance the library by importing your own

icon using the icon . (Format Paint BMP monochrome 64*16)

Once the message is written and set up, click on "Validate". Do the same for messages 2, 3, 4 and 5, if needed.

Then click on the "Send" button . A progress bar will indicate the transfer status and completion.

You can save your messages and the associated settings using the "save" button

This function only concerns your text message settings. It is possible to go back to the original set-up for your messages by clicking on "Erase all".

5. SUMMARY

5.1 EVOCOM

Battery

Ê

Clock

Luminosity

Auto

٨ Dial Setting





Battery level indication. If the battery level is low, the icon changes color. A fully charged battery is between 12.8 V and 13.1 V

This icon indicates the time drift between the radar speed sign and the computer. A simple click will allow you to synchronize the times of the radar speed sign and the

Radar speed sign internal temperature. (Please note, the indicated temperature is the one inside the sign and not the ambient temperature)

Number of days of statistics in the radar speed sign's memory.

Selector	Dial position
1	20 mph
2	30 mph
3	50 mph
4	60 mph
5	70 mph
6	SP/ 30 mph

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 29 of 43

5.2 EVOMOBILE



In this part, it is possible to modify the product name and check its health. In the event of a problem, useful diagnostic information is displayed. License information is available at the bottom of the window.

14:16 🖼 🔨	14:16 🖬 🔨 🕺 🗞 🕯 🕯 all 47% 着							
< Diagnostique	ç e							
ELANCITE RADAR								
Identité équipement								
Nom Elancite Radar	>							
Version 418								
Mémoire MI								
Antenne EC								
Code ATMEL 682719976BAA								
Diagnostic matériel								
Batterie	*							
Afficheur numérique	8							
Antenne radar	~							
Horloge	*							
Mémoire	*							
Afficheur texte	~							
	Transmettre							



6.1 Settings for advanced statistics management functions

In the case of a one-off measurement campaign (mobile radar), you can record to the second, the time of each measurement by selecting the high accuracy mode in the statistics storage menu. To activate this mode, press the CTRL +M keys when you are connected to the radar speed sign from EVOCOM.



Click on "High Accuracy Mode" then OK to activate the mode.

Please note that changing from one storage mode to the other deletes the radar speed sign's statistic data. The use of statistics is described in <u>section</u> 6.4.3.

Evolis is configured to operate in condensed mode by default.

6.2 Recovery of statistics data

6.2.1 Recovery of statistics data via EVOCOM

Once your computer is connected to the radar speed sign by USB or Bluetooth, start the Evocom program available on your desktop.



Click on "yes"



Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023 A window allows you to select your product.



Tran

Once the statistics are downloaded, you can consult them using the Evograph software.

6.2.2 Recovery of statistics data via EVOMOBILE

Once your telephone is connected to the radar speed sign via Bluetooth



Press the "statistics" button.



Press the Start button to start downloading the statistics.

Once the download is complete, and in order to use your statistics in EVOGRAPH, connect your telephone to a computer with the EVOCOM/EVOGRAPH software already installed.

Go to Windows file explorer. 🗸 🔲 Ce PC > Bureau > Documents Click on your device in the list of connected devices. > 🔀 Images > 🕑 Musique > J Téléchargements > 🔽 Vidéos > 📔 Y80 Hindows-SSD (C:) Click on "Internal storage space" or "internal Espace de stockage interne memory" depending on the Smartphone model. partagé Android Alarms Select the "Documents" folder then "Evocom" then DCIM Documents "stats." Select the statistics file ". DBZ1" corresponding to your radar speed sign and copy it on your desktop stats-D88039ADCF34 D88039ADCF34 Fichier DBZ1 with a "right click". 0 octet(s)

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023



- 1. In the "statistics" tab, click on "EVOMOBILE STATISTICS"
- 2. Click on your desktop.
- **3.** Select the previously copied ".DBZ1" statistics file.



The statistics will be integrated directly into your existing statistics as a campaign. If you change the name of your radar speed sign, a new statistics file will be created.

We recommend that you clear the telephone's memory regularly to avoid accumulating too many "DBZ1" files.

To do this, use the "CLEAR STATISTICS CACHE" function in the "SETTINGS" menu of the EVOMOBILE software.

Evocom X	A progress bar appears.
Cacheing : 21/03/2023	
10%	
Cancel	

Statistics

tistics carr

Start date

End date

aign info	rmation Tuesday, March 21, 2023 Wednesday, March 29, 2023	×	Once load measurem can name description
	1		

Once loading is completed, a window with the measurement campaign information appears. You can name your measurement campaign and add a description.

Once the statistics are downloaded, you can consult them using the Evograph software.

OK Cancel

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 34 of 43

6.3 Use of statistics data

The "Evograph" interface will allow you to analyze the radar speed sign data.

The "Evograph" software analyses this data and generates the complete reports of the collected data, in PDF or Excel format, in just a few clicks.

6.3.1 Graphics visualization

Open the Evograph software

Home page:



Eile Iools Help Criterion Start: 01/01/2011 00:00	C	lick on	this icon to	open the	statistics file to process.
Eoad statistics				×	
$\leftarrow \rightarrow \checkmark \uparrow$	Documents > evocom > stats	~	C Search stats	م	
Organize New folder			3	• 🛯 🕜	
	Name	Status	Date modified	Туре	Select the file corresponding to your radar
🛄 Desktop 🔹 🛔	B 05008034283E5D56-EVOLIS_VISION	Ø	4/5/2023 10:52 AM	Data Base File	speed sign
🚍 pro (\\merida🖈	05008034283E5D56	\odot	4/5/2023 10:52 AM	File folder	opood olgin
🛓 Downloads 🖈					
🔤 Documents 🖈					
🔀 Pictures 🛛 🖈					
🕗 Music 🛛 🖈					
🔰 Videos 🖈					
NOT-QUICKSTAI				-	
File name:	6827199952E9-ELANCITE_RADAR		✓ Database (*.db) Open	Cancel	

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 35 of 43

🚟 Campaign list	?	×
Campaign statistics		
		•
Campaign from Friday, February 18 Revision 2		
(from Monday, May 17, 2021 12:00 AM to Friday, February 18, 2	2022	
Campaign from Friday, February 18 Revision 2		
(from Sunday, February 21, 2021 12:00 AM to Friday, February	18, .	
Campaign from Friday, February 18 Revision 2		
(from Saturday, August 7, 2021 12:00 AM to Friday, February 18	8, 20	
Campaign from Friday, February 18 Revision 2		
(from Friday, December 10, 2021 12:00 AM to Friday, February	18, .	
Campaign from Friday, February 18 Revision 2		
(from Friday, April 2, 2021 12:00 AM to Friday, February 18, 20.	22 2.	•
OK Erase Cancel Select all I	nverting se	election

A window will allow you to visualize all the campaigns available in the database.

You can choose one or several consecutive campaigns. You can also delete a campaign.

Click on OK to start loading the campaign.

Your statistics can now be used.

The software will propose different graphics and analysis:

- Evolution of the average and maximum speeds
- Evolution of the number of vehicles
- Distribution of the number of vehicles per speed range
- Percentiles
- Synthesis of the data



Simply navigate between the different tabs to visualize the graphs.

6.3.2 Average speeds



The average speeds graph includes two averages:

- An average by half-hour period displayed as a curve on the graph (one curve per speed direction)
- One general average which is displayed in the lower part of the graph ((1) legend).

The average by half-hour period corresponds to the arithmetic average calculated on speeds between start / end dates and grouped over a default time period of 30 minutes.

The general speed corresponds to the arithmetic average of all speeds between the start / end dates over the time period used. The software sums all the instant speeds then divides the result by the number of measurements.

6.3.3 Maximum speeds



In the same way, the maximum speeds graph is divided into two parts:

- The maximum speed recorded by half-hour period is shown on the graphs (always with one color per traffic direction).
- The maximum speed recorded over the entire period selected, presented in legend (2).



6.3.4 Number of vehicles

The number of vehicles graph allows you to analyze:

- The number of vehicles in the entering or exiting direction, per half-hour time period
- The total number of vehicles over the selected period (3).

Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 38 of 43

6.3.5 Speed distribution

The distribution of speed ranges provides an overview of the percentage of vehicles that comply or do not comply with the regulations in force.

The "Location" option allows you to refine the ranges that will be displayed in the final report.

Graph with location selected at 25 mph:

•

Graph with location selected at 30 mph:



Document reference: MU_0011_A_EVOLIS_SOLUTION&VISION_US_ELANCITY Updated on: 03/10/2023

Page 39 of 43

By selecting the icon , you can customize the number of speed zones to be displayed depending on the location.

Icons legend

evo Cluri B	Plac	e			?	×	+	Create a new location.
Are	ea:	Urban 25	mph	•	+ -	-		
		Min	$ \Delta $	N	lax	-	-	Delete a location.
1	0			25				
2	26			30			-	Used to create a line. Each line
3	31			35				corresponds to a graphic zone.
4	36			40			•	Used to delete a line
5	41			45				
6	46			65				
							Once the "Save". Th	configuration is set-up, simply click on ne new locations are now available.
	Sav	e	Res	et	Close		The "Rese initial cont only the 2	et" option allows you to restore the figuration of the location zones, i.e., 0, 30, 50, mph zones.

6.3.6 Percentiles

The V85 or the 85th percentile is an indicator frequently used to report the behavior of drivers. It is the speed respected by 85% of drivers or the speed above which 15% of drivers drive. The V85 gives an idea of the speed dispersion.



If V85 is close to the average, this indicates that the speeds observed on a road are consistent. If the opposite is noted, this means that a significant proportion of drivers are above the speed limit.

6.4 EVOGRAPH functions

6.4.1 Dates selection

The graphs initially focus on the entire recording period. In order to generate specific data over a period you can select shorter periods on the calendar.

_											
80 🐖	1F12	eco85	E-ELA	NCITE	RADAR	- E ⁱ	vograph		-	· 6) X
<u>F</u> ile	Tool	s <u>H</u> el	р								
🔛 [۸ 🕻	8	2								
Crite	rion				🖄 Ave	rages	1 Ko	wmmm 🏭 Number of vehicles 🧶 Distribution 🖄 Percentile 🔄 Data Campaigns			
Star	t:	022 15-	00 -					Average speeds			
End	06/2	022 13									
	00/2		Jur	ne, 20	22	-	•				
SL	in I	Mon	Tue	wed	Thu	Fri	Sat				
4	9	50	31	0	2	3	4				
		12	14	15	9	17	10				
	c 0	20	21	22	22	24	25				
	5 6	20	28	20	30	1	2				
	1	4	5	6	7	8	9				
			5	Ŭ	1	1					
1					-D]					

A "zoom" function on the graph also allows you to present the graph over a very specific period of time.

Precision (= Timescale or graphs)

🎬 801F126C085E-EL	.ANCITE_R/	Evograph	?	×
<u>File</u> <u>Tools</u> <u>H</u> elp		Measure filtering t	hreshold (m	iinutes):
🛛 🔁 🎨 <u>R</u> ange	Ctrl+R	30	-	÷
Crit 🕘 Accuracy	Ctrl+Y	ОК	Can	cel

You can select a scale of half an hour or one hour (timestamp).

6.4.2 Printing to a PDF file

The icon \swarrow , allows you to export graphs in PDF format for storage or printing. The "measuring location" and "comments" fields can be filled in and will appear directly in the printer of your printouts (PDF or paper).



6.4.3 Export to Excel

Statistics in condensed mode

You can export your data to Excel to create personalized graphs or compile data (recording periods) using the icon .

Statistics in high accuracy mode

When your radar speed sign is configured in high accuracy mode, (<u>section 6.1</u>) the export of data to Excel, to the second, is only available by using the combination of the following keys: CTRL+F1 then CTRL+X. A save window appears and you will be able save the statistics of your radar speed sign in ".CSV" format on your computer.

6.4.4 Modify campaign information

It is possible to modify the title and information of a campaign in the "Campaign" tab. In this tab, you can also find the start and end dates of the campaign concerned.

In Tests Mate	
Deferant 🛞 Anne ages 🛞 Mateman 🏦 Namine of Velnides 🔞 Davideatum 🖄	Persetile El baia Campeigns
Stats: Trysystee trunt	beal
Ind InUnice2022 11100	Becoding dalac Thursday, July 2, 2022 11:04 A
analians	Sharet dates: Menday, July 13, 20,01 12:00 /
Commethi	kud datar 11. olay, iday 1, 2022 13.00 A
	Number of day : 3355
Reco:	Tite
	Tank receil - stand sudday companyor
	Comments
	Wer nod - Net and a proper 2 in the sec
Deta	
- O Search	

7. CONNECT OPTION

This option uses the mobile internet to transfer the radar speed sign data to our servers (once a day) and allows you to set up your sign, retrieve your statistics, or allow the Elan City technical department to process the data. Some malfunctions can even be identified before failures occur. For each alert, we organise a corrective action as soon as possible. You will also be notified if your device malfunctions, and this, from your office, via the "Evoweb" interface. For more information concerning the connect option, please contact our services.



8. AFTER SALE SERVICE

All information concerning our after-sales service and warranty conditions can be found in the installation manual for your product, available at the following address: <u>https://www.elancity.net/services/customer-area/</u>

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