# alaridge EVOLIS VISION STATE-OF-THE-ART

RADAR SPEED SIGN

YOUR SPEED

SLOUDOUN

# USER MANUAL

aldridge.com.au

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### Thank you for choosing the Evolis Vision 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 (option: average speeds, maximum speeds, number of vehicles, distribution by speed range and percentiles, and data for one direction or both directions of traffic).

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

#### This installation 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 https://aldridge.com.au/evolisvision

### 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 S	etup Lan	iguage			×
		Select the	e language to use on.	during th	e	
		English				~
			ОК		Cancel	
Select your language an	d click on	"OK" to co	ontinue.			
	Setup - E	vocom		12		$\times$
			Welcome to the Wizard This will install Evocom Rev It is recommended that you before continuing. Click Next to continue, or Ca	ne Evocor	m Setu r computer. pplications p.	P
	2			Next	Canc	:el

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### 1.1.1 Installation Cont'd

Click on "Next"

Setup will install Evocom into the following folder. To continue, click Next. If you would like to select a different folder, click Browse. C:\Program Files (x86)\Evocom Browse.	Setup will install Evocom into the following folder. To continue, click Next. If you would like to select a different folder, cl C:\Program Files (x86)\Evocom	iolder, click Brows
To continue, click Next. If you would like to select a different folder, click Browse. C:\Program Files (x86)\Evocom	To continue, click Next. If you would like to select a different folder, cl C:\Program Files (x86)\Evocom	iolder, click Brows
To continue, click Next. If you would like to select a different folder, click Browse C:\Program Files (x86)\Evocom	To continue, click Next. If you would like to select a different folder, cl	folder, click Brows
C:\Program Files (x86)\Evocom Browse	C:\Program Files (x86)\Evocom	Brows
	<u></u>	
	At least 205.0 MB of free disk space is required.	
At least 205.0 MB of free disk space is required.	English	

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

Where should Setup place the program's shortcuts?		0
Setup will create the program's shortcuts in the follow	wing Start I folder, click	Menu folder. Browse.
Evocom		Browse
h		

Click on "Next" to continue.

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

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### **1.1.1 Installation Cont'd**

Select Additional Tasks			e
Which additional tasks shoul	d be performed?		-
Select the additional tasks yo then click Next.	ou would like Setup to per	form while installi	ng Evocom,
Additional icons:			
Create desktop shortcut	s		
For all users			
O Current user only			
Add shortcuts to taskbar	r		

#### Click on "Next" to continue.

Click

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

	Ready to Install		
	Setup is now ready to begin installing Evocom on your	r computer.	-
	Click Install to continue with the installation, or click Ba change any settings.	ack if you want to revi	ew or
6	Destination location: C:\Program Files (x86)\Evocom		A
	Start Menu folder: Evocom		
4	Additional tasks: Additional icons: Create desktop shortcuts For all users		
			v
	4		- P-
Eng	ish		
	Back		1 Concentration 1997
ntinu	Ie. Setup - Evocom	Install	Car
ntinu 4	le. Setup - Evocom	Install	Can
ntinu	IC. Setup - Evocom Installing Please wait while Setup installs Evocom on your comp		Can
ntinu 4	IC. Setup - Evocom Installing Please wait while Setup installs Evocom on your comp Extracting files		Cano
ntinu 2	IC. Setup - Evocom Installing Please wait while Setup installs Evocom on your comp Extracting files C:\Program Files (x86)\Evocom\Qt5Gui.dll		Cane
ntinu de	IC. Setup - Evocom Installing Please wait while Setup installs Evocom on your comp Extracting files C:\Program Files (x86)\Evocom\Qt5Gui.dll	uter.	Canc
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	IP. Setup - Evocom Installing Please wait while Setup installs Evocom on your comp Extracting files C:\Program Files (x86)\Evocom\Qt5Gui.dll	uter.	

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### **1.1.1 Installation Cont'd**



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:



Click on "Extract" to continue



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### **1.1.1 Installation Cont'd**



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



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



On the first opening, the software will ask you to select the desired language. Choose your language

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### **1.1.1 Installation Cont'd**



The software will prompt you to select the type of radars. Choose "EVOLIS SMILEY/ WARNING TRIANGLE" then check "Message display Unit," and click "OK."

txocom	
EVOCOM - REVISION HISTORY	
his page allows you to bitter the evolution of our EvoCon / EvoChapt softnare suite. You can easily check when softnare updates have been published, what features have enfy compatibility with the limitare revisions installed in your products.	been added or changed, and
EvoCom Revision 5.34	
farch 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	
leptember 2020	
Compatible V4.1 Elanoity 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	
farch 30, 2018	
Connectible MA Elevative Interview	

Finally, the software will display the version history. Uncheck the "Show at startup" box and click "OK" if you do not want it to be displayed the next time you start the software.

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### **1.1.2 Presentation of the software**

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



# Home screen, for the management of your statistics and the connection to EVO-MOBILE.

- Set-up of the "SP" position for the dial. See section 3
- Set-up of the radar speed sign messages. See section 4
- Summary page including all the details of your equipment.

### **1.2 EVO-MOBILE**

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



EVOMOBILE - App on Google Play

#### **Minimum versions required:**

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



EVOMOBILE in the App Store (apple.com)

PLEASE NOTE THAT THE IOS APPLICATION IS ONLY COMPATIBLE WITH RADAR SPEED SIGNS WITH BLE TECHNOLOGY, MANUFACTURED FROM 2021

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### 1.2.1 Installation

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





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

### **1.2.2 Presentation of the software**



Reload the radar speed sign's parameters Detect a 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, licence update, etc.).

**EvoCloud** (Option): Synchronise GPRS data.

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

# 2. CONECTION TO THE RADAR SPEED SIGN

# 2.1 USB CONNECTION VIA EVOCOM

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



Position the speed dial on the speed of your choice on the SOLUTION model.

Press and hold the **b** key to turn the radar speed sign "ON" on the VISION model.



Start the **Evocom** program available on your desktop.



Click on 'yes'



A window allows you to select your product



### 2.2 BLUETOOTH CONNECTION VIA EVOCOM

The Evolis 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 metres.

# PLEASE NOTE, THE CONNECTION MAY BE DISRUPTED BY AN ATHERMIC WINDSCREEN OR WEATHER CONDITIONS.

Follow these steps to connect your Evolis radar to a Windows 11 or Windows 10 computer.

#### NOTE:

The following steps apply only to Windows 11. If you have another version of Windows, the steps should be similar.

- 1. Make sure your radar is plugged in and within range (5 to 10m) of your computer.
- 2. In Windows, search for and open the Bluetooth and other devices settings.

To do this, right-click on the Windows "Start" button (the Windows icon in the bottom left corner). Then click on 'Settings'.

3. In the Bluetooth and devices tab, set the Bluetooth setting to Enabled.

Find	d a setting Q		
	Home		
	System		
0	Bluetooth & devices		
•	Network & internet	Bluetooth & devices > Devices	
1	Personalisation	Biurtooth	
	Apps	Discoverable as "PC-PEDRO"	
:	Accounts		
3	Time & language		
•	Gaming		
×	Accessibility		
	Privacy & security		
•	Windows Update		

4. In the « Bluetooth and devices » tab, click on « Devices ». In the 'Device settings' section, select 'Advanced' from the dropdown menu instead of "Default"

### **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN

# 2.2 BLUETOOTH CONNECTION VIA EVOCOM (CONT'D)

d a setting Q	***				
Home				1	
System	ELANS-40C8	ELANS-871A	ELAN4-BC26	+	
Bluetooth & devices	Not connected	Not connected	Not connected	Add device	
Network & internet					
Personalisation		vi	ew more devices		
Apps	a Suetooth				
Accounts	<ul> <li>Discoverable as '7C-PEDRO'</li> </ul>				On 🗨
Time & language	and the second second				_
Garring	Mouse, keyboard, pen, audio	, displays and docks, other devices		Add	device
Accessibility	Printers & scanners				
Privacy & security	Praferences, treubleshoot				
Windows Update	Phone Link Instantly access your mobile	device from your PC			3
	Cameras Connected cameras, default	mage settings			1
	Mouse Buttons, mouse pointer spee	d, sociling			đ
	- Tarbad				
Device settings					
Show notifications to connect using Si Connect to supported Bluetooth devices qu	wift Pair Jickly when they're close by and in pairing mode			Off	
Download over metered connections	and the Mide and the state of the			Off 🔵	
Device software (drivers, into, and apps) for	r new devices will download when you're on meter	ed internet connections—data c	narges may apply	(Contraction of the second	

5. Click on « Add a device » to start searching for the radar.

On 🢽
Add device

6. Choose Bluetooth as the type of device to add

Add	a device
Ac	dd a device
Cho	oose the kind of device you want to add.
*	Bluetooth Mice, keyboards, pens, or audio and other kinds of Bluetooth devices

- 7. Select the Bluetooth device you wish to add from the list. It could be named 'ELANCITE\_RADAR\_V4\_XXXX', 'ELAN4-XXXX', or 'ELAN5-XXXX'.
- 8. If prompted, enter the Bluetooth security code, then click on 'Connect'.

Add	a device	×
Ad	ld a device	
Mak	e sure your device is turned on and nect.	discoverable. Select a device below to
۶D	ELANCITE_RADAR_V4_B585 Connecting	
	Enter the PIN for ELANCITE_RADAR	LV4_B585.
	1530	×
	Connect	Cancel

### 2.2 BLUETOOTH CONNECTION VIA EVOCOM (CONT'D)

If a code is requested at this stage (for earlier versions of radars), enter the Bluetooth code provided in the document that comes with the manual and keys.



9. A confirmation message will appear when the devices are paired.



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# 2.3 BLUETOOTH CONNECTION VIA EVO-MOBILE

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:





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 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 EVO-MOBILE 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 colour change	Speed	Speed triggering danger waning symbol
Speed Limit Selector	Visual	YOUR SPEED	YOUR SPEED	triggering flashing numbers	YOUR SPEED
SP/20	km/h	15 km/h	21 km/h	26 km/h	31 km/h
30 k	xm/h	15 km/h	31 km/h	36 km/h	41 km/h
50 k	xm/h	15 km/h	51 km/h	56 km/h	61 km/h
70 k	xm/h	20 km/h	71 km/h	76 km/h	91 km/h
80 k	xm/h	20 km/h	81 km/h	86 km/h	101 km/h
90 k	xm/h	20 km/h	91 km/h	96 km/h	111 km/h

### The "SP" positions corresponds to the factory settings for the 20 km/h zone

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

Pre-programmed speed positions for Norway, Sweden, Estonia, Australia, Canada, Denmark, Poland, Greece, Croatia, Ireland and Finland.

	Description	Minimum speed triggering the display	Speed triggering a colour change	Speed	Speed triggering danger waning symbol
Speed Limit Selector	Visual	YOUR SPEED	YOUR SPEED	triggering flashing numbers	YOUR SPEED
20 k	xm/h	15 km/h	21 km/h	26 km/h	31 km/h
30 k	km/h	15 km/h	31 km/h	36 km/h	41 km/h
40 k	(m/h	15 km/h	41 km/h	46 km/h	51 km/h
50 k	xm/h	15 km/h	51 km/h	56 km/h	61 km/h
60 k	(m/h	20 km/h	61 km/h	66 km/h	81 km/h
70 k	km/h	20 km/h	71 km/h	76 km/h	91 km/h
80 k	xm/h	20 km/h	81 km/h	86 km/h	101 km/h
90 k	xm/h	20 km/h	91 km/h	96 km/h	111 km/h
100	km/h	20 km/h	101 km/h	106 km/h	121 km/h
SP/110	) km/h	20 km/h	111 km/h	116 km/h	131 km/h

\* Text display not available on Mobility and Vision XL models The "SP" positions corresponds to the factory settings for the 110 km/h zone

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

# **3.1 SETTING A SPECIFIC SPEED**

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



THRESHOLDS

Minimum speed to be displayed

Amber margin before Red display

Flashing speed display threshold

um speed displayed

three-color display (green/amber/red)

Relay (2nd machine) trigger

Maxim

Red speed display threshold

- 1. Change the name of the radar speed sign
- 2. Change the different thresholds to change the speed colour
- 3. Activate the different specific modes, see below
- 4. Change the different thresholds to display messages

- Threshold from which the radar speed sign displays a message
   Km/h
  - 2. Threshold to change the speed display to red
  - 3. Threshold to trigger flashing of the speed display
  - 4. Threshold to display "DANGER" (antirace mode)



Settings to trigger the messages display.

In this example, message 1 is triggered from 21km/h, until message 2 is triggered from 31 km/h.

5 ‡ Km/h 25 ¥ Km/h

31 🗘 Km/h

199 🗘 Km/h

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

# **3.2 TRICOLOUR DISPLAY**

3 colour 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	OLD	5				_			
Minimum speed to be displayed			i.	1	9	i.	15	-	Km/h
Red speed display threshold		-	i.	Ξ.	4	ï	21	-	Km/h
Amber margin before Red display			7	U,			5	¢	Km/h
Flashing speed display threshold	1	ł,	÷	×.	ji.	1	25	¢	Km/h
Maximum speed displayed	-	,	i.	τÇ	4	,i	31	-	Km/h
Relay (2nd machine) trigger	1	1	×.	11	Ų	1	199	\$	Km/h
💙 three-color display (green/amber/red)									

Check the "three colour display" box

Set the threshold before the display changes to red

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

In this example, display in amber from 16 km/h to 21 km/h.

Once the settings are changed, click on the button 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 EVO-MOBILE 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.



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 EVO-MOBILE**

Once connected to the radar speed sign via EVO-MOBILE on the Settings tab then click on the "SPY" button



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

# **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:

🐨 Evacom				$\times$
Eile Help		-		
Statistics		HARDWARE	Firmivare revision 502	
	Identification: EVOLIS VISION	4		
Settings	Minimum speed to be displayed	THRESHOLDS	Statistics	
-	Red speed display threshold	2	1 🔄 Km/h 🧿 two-way (in/out)	
CI Messages	Amber margin before Red display		s 🔹 Km/h	
<u>~</u>	Flashing speed display threshold		5 🕃 Km/h 🔘 Yes 🗿 No	
Summary	Maximum speed displayed	1 <b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 🔤 Km/h	
	Relay (2nd machine) trigger	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99 🔄 Km/h	
	D three-color display (green) an	COMPLEMENTARY MC	065	
	Time slot display mode enabled	O Yes O No		
	Warning Triangle display enabled Dynamic display function	d Yes No		
	Amber only display	O Yes O No		
	ME	SSAGES		
	Message #1	21 💭 Km/h	Flash mode () Yes O No	
	Message #2	31 🔹 Km/h		
	Message #3	255 😧 Km/h	10123 KM	•
	Message #4	255 🐑 Km/h	4/5/2023	۲
	Message #5	255 🐑 Km/h		
049	Jinternet			
👻 Evocom				$\times$
D	AYS	o	perating hours	
Monday			5kd 5kd	
Tuesday			Start End	121
Wednesday		Time slot #1	08:00 am 👻 17:00 pr	n 💽
Thursday		Time slot #2	00:00 am 🗘 00:00 an	•
Friday		Time slot #3	00:00 am 🖨 00:00 an	
Saturday		Time slot #4	00:00 am	
Sunday				·
		Radar ope	ration restricted to time slots onl	, n
Select all				
		EED THRESHOLDS		$\equiv$
Minimum speed to be d	lisplayed	15	€ Km/h	
Red speed display thre	schold			
neo spece copies and		31	Km/h	
Amber margin before F	ted display	1 1 1 1 1	€ Km/h	
Flashing speed display	threshold	35	€ Km/h	
Maximum speed to be	displayed	40	Km/h	
	Co	emplementary mode		
vVarning Triangle displ	ay enabled 🧿 Yes 🔘	No		
		MESSAGES		
Hessage #1	255	Km/h		
Message #2	255 🖨	Km/h		
Message #3	255 🗘	Km/h		
Message #4	255	Km/h		
Message #5	1 X X X X 30 🗘	Km/h		
			OK	- Al
			Can	

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.

# **3.6 ALTERNATE DISPLAY**

This setting, activated by default, allows you to display a "TOO FAST" 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



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

### **3.7 AMBER DISPLAY ONLY**

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	Ves O No
Warning Triangle display enabled	O Yes ○ No …
Dynamic display function	🔾 Yes 🗿 No 🛛
Amber only display	🔿 Yes 🗿 No

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



1. Threshold from which the radar speed sign displays a message

2. Threshold to trigger flashing of the speed display

3. Threshold to display "DANGER" (anti-race mode)

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# 4. MODIFICATION OF THE MESSAGES

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

# PLEASE NOTE THAT THIS MODIFICATION IMPACTS ALL MODES OF YOUR RADAR SPEED SIGN

The use of an amber "full graphic 64 x 16 cm (l x h) matrix. Pitch (gap between the centre 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.

			MESSAGE I	.IST		
		Text			Image	
🔛 Settings	1			- none -		
	2			- none -		
Messages	3			- none -		
	4			- none -		
Summary	5			- none -		
	Model	Evolis solution	~		Erase	Erase all
			Marrag	-		
	Text:		(issued)			Validate
	Symbol:	- none -	~			
		000000000000000000000000000000000000000	000000000000000000000000000000000000000			
					00000000000000000000000000000000000000	0000000

THE MESSAGES, SAVED IN THE EVOLIS MEMORY, ARE NOT VISIBLE ON THE EVOCOM INTERFACE. TO DISPLAY THE EXISTING MESSAGES ON THE DEVICE, CLICK ON (  $\checkmark$  ) TO LAUNCH TEST MODE.

# **4.1 EDITION OF A MESSAGE**

Help								
A	📁 🖆	1 🛛 a'	<b>a</b> e e	3 🖬 🕯	i 💷 🕫 🛤		×	4
Statistics				MESSAG	E LIST			_
			Text			Image		
Settings	1				- none -			
	2				- none -			
Messages	3				- none -			
	4				- none -			
🕻 Summary	5				- none -			
				Messa	ge	1		
	Text:						Valida	ate
	Symbol:	- none -		~				
	Effect:	Full page			$\sim$			

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.

TH	A		1A	
		H	41	
				6 <b></b> 6

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.

### a' a' E E E 🗉 🖬 💵 💐 🔜



Reduce/enlarge the size of characters proportionally





Vertical centering or top/bottom alignment

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## **4.2 EDITION OF AN IMAGE MESSAGE**

Telb								
Statistics		a a =	2 3		<u>u v s</u>		×	
		т.,	M	ESSAGE LI	ST	Terreter		_
Sottings		lext				image		
Settings	1				- none -			
	2				- none -			
Messages	3				- none -			
	4				- none -			
Summary	5				- none -			
	1							
				Message				
	Text:			The s			Valid	ate
	Text: Symbol:	Thank You	Ŷ				Valid	ate
	Text: Symbol:	Thank You - none - Thank You Warefuel					Valid	ate
	Text: Symbol:	Thank You - none - Thank You Warning! Slow down Dancer				86 888 86 888 80 88 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8	Valid	ate
	Text: Symbol:	Thank You - none - Thank You Warning! Slow down Danger Smiley Sad Face	-				Valid	ate
	Text: Symbol:	Thank You - none - Titanh You Warning! Slow down Danger Smily Sad Face Speed bump/bumpy road School	-				Valid	ate
	Text: Symbol:	Thank You - none - Thank You Warning! Slow down Danger Smillay Sad Face Speed bump/bumpy road School Crossroads					Valid	ate
	Text: Symbol:	Thank You - nords Mitch Sicce Warming! Slow down Danger Smiley Sad Face Speed bump/bumpy road Solocom/bumpy road Solocom/bumpy road					Valid	
	Text: Symbol:	Thank You - note - Thank Hote Warning! Slow down Danger Series Series School Crostroads Full case					Valid	ate

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



### **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN

# **5. SUMMARY**

# **5.1 EVOCOM**





Battery level indication. If the battery level is low, the icon changes colour. 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 synchronise the times of the radar speed sign and the computer.

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.

Ambient luminosity indication. Click on the icon to obtain the measurement.

Bluetooth code associated with your device. It is possible to print the authentication form by clicking on the icon

Position of the speed thresholds dial

STATE-OF-THE-ART RADAR SPEED SIGN

# **5.2 EVO-MOBILE**



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. Licence information is available at the bottom of the window.

14:16 🖻 🔨	💐 🕈 🖘 all 47% 🚔
C Diagnostique	39
ELANCITE RADAR	
Identité équipement	
Nom ELANCITE RADAR	>
Version 418	
Mémoire MI	
Antenne EC	
Code ATMEL 682719976BAA	
Diagnostic matériel	et estel
Batterie	~
Afficheur numérique	8
Antenne radar	*
Horloge	~
Mémoire	~
Afficheur texte	~
Transm	ettre

# **6. STATISTICAL DATA**

### 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 section 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 compl or Bluetooth, sta	uter is connected to the ran rt the Evocom program ave	dar speed sign by USB ailable on your desktop.
Click on "ves"	Evocom	×

Yes

Start device detection ?

No



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A window allows you to select your product.



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

### **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN

### 6.2.2 RECOVERY OF STATISTICS DATA VIA EVO-MOBILE

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



Press the "statistics" button

Find

Statistics

Statistics

Cualityeet

200

S

Start

9

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



### 6.2.2 RECOVERY OF STATISTICS DATA VIA EVO-MOBILE (CONT'D)

in EVOCOM



👻 Evocom Click on "no"

Yes

Start device detection ?

No

File Help 🔇 Statistics 211 🔛 Settings a Messages 🔅 Summary + 🧈 📑 🙆 Inte

- 0 ×

2. Click on your desktop

3. Select the previously copied ".DBZ1" statistics file.

1. In the "statistics" tab, click on "EVO-

MOBILE STATISTICS"

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 your 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.

			aldridge.com.au
Start date End date Title Comments	Tuesday, March 21, 2023 Wednesday, March 29, 2023		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.
Statistics	information	×	Once loading is completed, a window with the
	10% Cancel		1
Evocom	×	A progress bar appears.	

### **6.3 USE OF STATISTICS DATA**

The "Evograph" interface will allow you analyse 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 GRAPHICAL VISUALISATION**

Open the Evograph software

#### **HOME PAGE:**

🚟 Evograph <u>File Iools Help</u> A 🗟 🖉 🗛

Criterion

Start: 01/01/2011 00:00 -

Load statistics...

Organize - New folder

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#

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Desktop

🛓 Downloads 🖈

📔 Documents 📌

NOT-QUICKSTAI

Pictures

Music

Videos

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🖄 Averages 🛛 🖄 Ma

6 05008034283E5D56-EVOLIS\_VISION\_

→ ✓ ↑ 🚞 « Documents > evocom > stats

Name

05008034283E5D56

File name: 6827199952E9-ELANCITE\_RADAR\_

Click on this icon to open the statistics file to process.

Select the file corresponding to your radar speed sign

×

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File folder

Cancel

Data Base File

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Status

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Search stats

Date modified

4/5/2023 10:52 AM

4/5/2023 10:52 AM

 Database (\*.db) Open

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### 6.3.1 GRAPHICAL VISUALISATION (CONT'D)



A window will allow you to visualise 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 visualise the graphs.

### **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN

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.

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### 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 colour 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 analyse:

- 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).

### **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" options allows you to refine the ranges that will be displayed in the final report.

Graph with location selected at 30 km/h:



#### Graph with location selected at 50 km/h:



### 6.3.5 SPEED DISTRIBUTION (CONT'D)

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

### **Icons legend:**

	Min /	Max	
1	0	50	
2	51	70	
3	71	90	
4	91	110	

- + Create a new location.
- Delete a location.
- Used to create a line. Each line corresponds to a graphic zone.
- Used to delete a line.

Once the configuration set-up, simply click on "Save". The new locations are now available.

The "Reset" option allows you to restore the initial configuration of the location zones, i.e. only the 20, 30, 50, 70, 80 and 90 km/h zones.



### **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN

### **6.3.6 PERCENTILES**

The V85 or the 85th percentile is an indicator frequently used to report the behaviour 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.



### **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.

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۵	5	۵								
Criterio	n			🖄 Ave	rages	12 M	num 🏨 Number of vehicles Ø Distribution 🖄 Percentile 🔲 Data Campaigns			
Start:							Average speeds			
01/05	/2022 15	5:00 💌		14	7			 		
End 01/06	/2022 11	1:00 -			1					
0		Ju	ne, 20	22		•				
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
29	30	31	1	2	3	4				
12	13	14	15	16	17	18				
19	20	21	22	23	24	25				
26	27	28	29	30	1	2				
3	4	5	6	7	8	9				
			- 111	-	-					
1				80	-			1		
				T	-			1		

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

### Precision (= Timescale or graphs)

### 6.4.1 DATES SELECTION (CONT'D)



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

### 6.4.2 PRINTING TO A PDF FILE

The icon , 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, (section 6.1) 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.



# **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.



# **EVOLIS VISION** STATE-OF-THE-ART RADAR SPEED SIGN



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