

PRODUCT DOCUMENTATION

# EVOLIS MOBILITY

RADAR SPEED SIGN



[www.nts.world](http://www.nts.world)

ÉlanCité 

# THE WORLD'S MOST FREQUENTLY CHOSEN MODEL

Accuracy, striking visibility, reliability in all conditions, easy to install, the EVOLIS radar speed sign boasts a host of advantages that have made it an international benchmark: nearly 20,000 town councils have adopted it and there are over 45,000 units in operation worldwide.



## 1 An impactful display making it the most effective of radars

- Greater visibility meaning earlier driver awareness
- Accurate, long-range Doppler radar antenna (300 meters)

## 2 Connected radar for high-performance analysis

- Traffic data recorded in both directions
- A software package for analyzing your traffic data
- Various connectivity options

## 3 Durability and long-term reliability

- Extremely durable housing
- Robust front face
- Two-year guarantee

## 4 Simple, safe installation

- Easy installation built into the design
- Can be configured directly on the appliance
- Four power supply modes to suit sites of all kinds
- Lightweight: only one person needed for installation or relocation

## TESTIMONIALS FROM OUR CUSTOMERS

*We are very pleased with the different aspects of the Élan Cité products, such as ease of connecting and programming of the devices via Bluetooth®, the durability of the hardware through extreme weather conditions and also the simplicity of deploying the Radar Speed Signs. We continually receive positive feedback from residents in relation to the aesthetics of the Radar Speed Signs and the effectiveness of the customizable message option.*

*Mr Charbonneau, City of Ottawa, Canada*



# A STRIKING DISPLAY, MAKING IT THE MOST EFFECTIVE RADAR

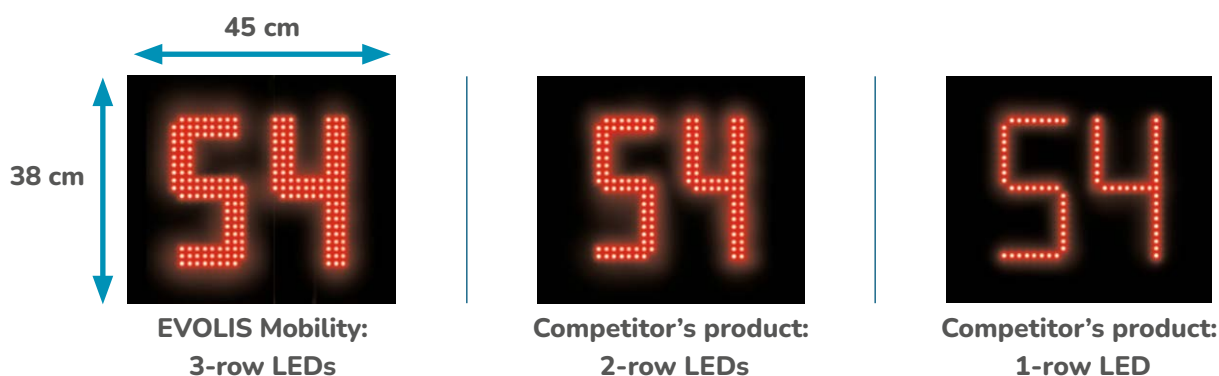
Accurate is fine, but unmissable is better. With a 300 meters vehicle detection range and optimum visibility up to 250 meters, EVOLIS Mobility is considered the best performing and most safety-inducing radar on the market!

## A high-performance display

The EVOLIS Mobility Doppler speed display is composed of 3 rows of LEDs: a maxi format and high resolution which greatly increase visibility and the psychological impact on the driver.



## EVOLIS MOBILITY'S VISUAL PERFORMANCE VERSUS ITS COMPETITORS



## Discover also EVOLIS Vision!

The world's most frequently chosen model with enhanced effectiveness thanks to its fully customisable text display!

It also features a wide variety of pre-recorded and pictograms, contact us for more information!

**SLOWDOWN**

**WARNING!**

**TOO FAST**



## Accurate, long range Doppler radar antenna

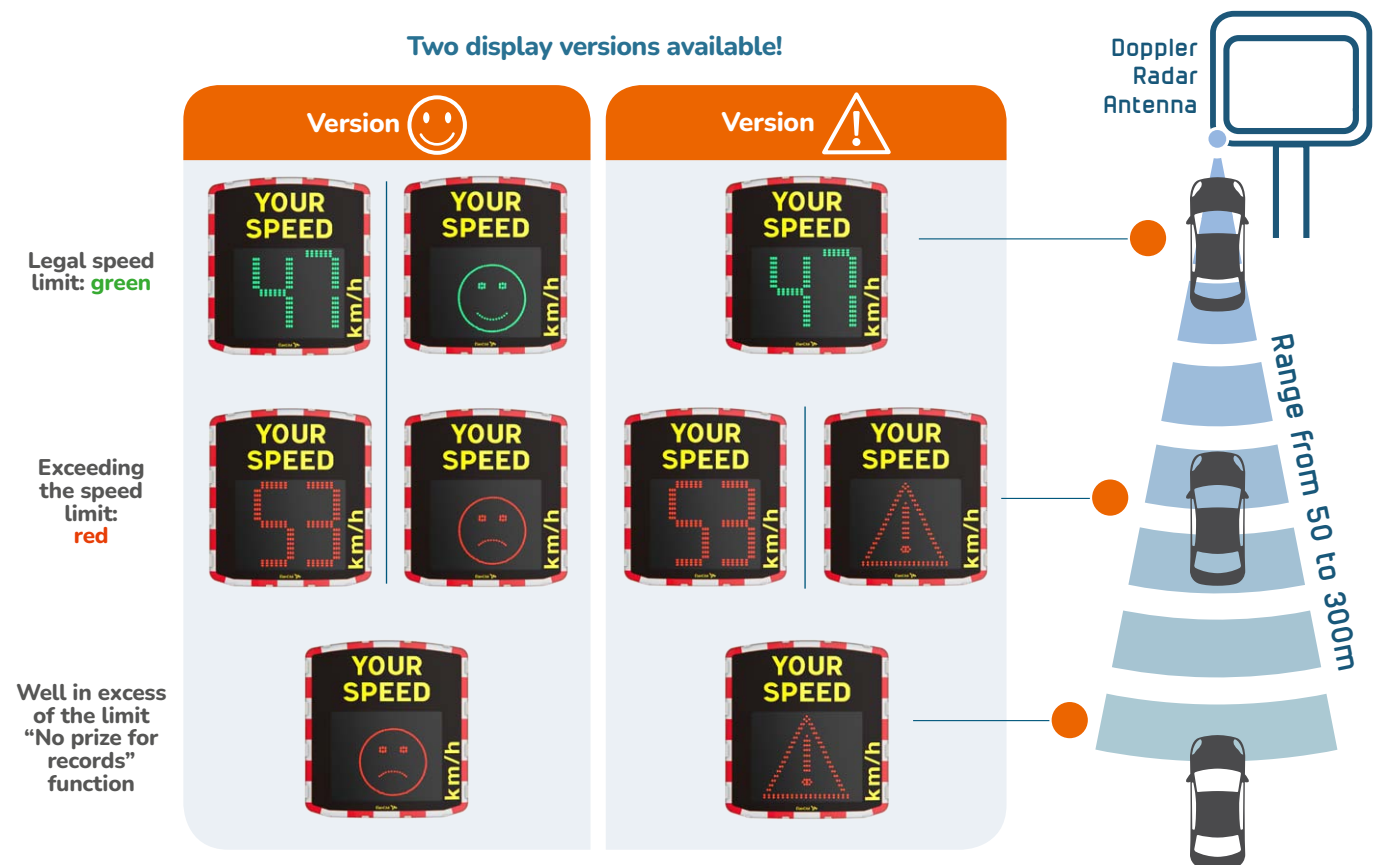
This tried-and-tested technology used in our radar speed displays enables us to guarantee accurate detection at ranges up to 300 meters, a wide detection angle of 33° and an accuracy of +/- 1%.

**The longer the detection range,** the more the driver comes face-to-face with their speed and **the bigger the radar's effect!**



## The different interactions between EVOLIS Mobility and the motorist

The two-tone display, refreshed every second, ensures a strong impact on the motorist. It is green when the speed limit is respected, and red when it is exceeded.





# A CONNECTED RADAR FOR HIGH-PERFORMANCE ANALYSIS

The EVOLIS Mobility radar doesn't stop at warning drivers. The integrated software lets you manage your equipment with your own resources and record and analyze traffic data in your community.

## How do you communicate with your radar?

Through your PC, you can exchange data with your radar via USB cable (included) and Bluetooth®. You can also connect to your radar via **your tablet or smartphone under Android/iOS.**

## Spy mode: the smart way to analyze data



The extremely useful "spy" function lets you **compare the radar unit's traffic data** in the on and off modes. With this system, the EVOLIS Mobility radar doesn't display speeds but still records the traffic data.

## A software suite to analyze your traffic data and prove the effectiveness of the radar speed sign

**Configure your radar easily and retrieve its recorded data** with our software package (unlimited access license): number of vehicles time stamped to the nearest second, speed in both directions, average and maximum speeds, etc. It can also output your data in graphic form: pie charts, diagrams, graphs, etc., **providing you with precious information on road safety in your town or village.** All the data can be exported as an Excel, CSV, or PDF file.



## Discover Connect Option

The Connect box provides the EVOLIS radar with remote connectivity using the 4G network. Easy to implement, it is installed directly inside the unit by the user. The Connect box offers easy management of your EVOLIS radar as well as unparalleled practicality when managing your statistical data.

With its «all-inclusive» subscription, you can remotely access all your statistical data settings and the health status of your radar through our dedicated web platform.

# DURABILITY AND LONG-TERM RELIABILITY

From Canada to New Zealand, across Europe, installations all over the world are proof that EVOLIS Vision radars are designed to work long term in any climatic condition.

## Extremely durable housing

Made of polycarbonate-reinforced ABS resin, the one-piece housing guarantees perfect weatherproofing and protection of the components.

There are no screws to go rusty.  
The full-core anti-UV treatment ensures maximum service life.



## Robust front face

Designed in polycarbonate and treated with an anti-reflective coating, it offers better visibility in all conditions. Slightly curved, it protects the LEDs from all projectiles.



## A 2-year warranty and a dedicated support team

The return rate of our radars under guarantee is less than 1%. In case of malfunction (except vandalism), we proceed with you to the diagnosis by phone and bring you the necessary support for the repair.

Our team of specialists assists you with installation and use: remote trainings are possible.

## TESTIMONIALS FROM OUR CUSTOMERS

*After 60 days of being deployed I am very happy to report that I have not received any complaint from these areas in regard to speeding. I was able to program the signs to display warning messages in alternating colors and could not be happier with the results. In fact, the average speed over a 60-day period was 98% below the posted speed limit.*

Mr Prichard, Hollywood Park, TX



# A SIMPLE AND A SAFE INSTALLATION

The EVOLIS Mobility is cleverly designed to enable installation and relocation in a matter of minutes on any existing support structure by a single member of your workforce.

## Easy installation built into the design

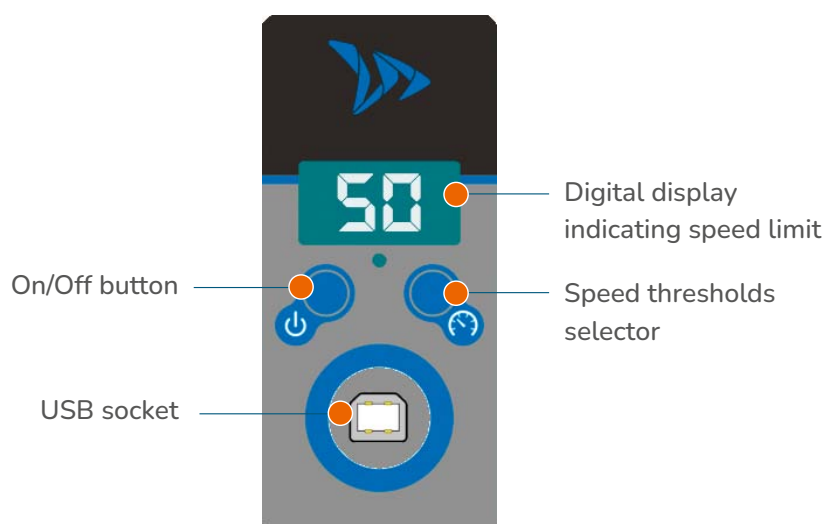
Delivered pre-configured and ready to go, the EVOLIS Mobility has been designed to make it easy to install and use:

- Weighs only 9.2kg, allowing easy manipulation without heavy equipment
- Large detection angle of 33° for installation without orientation of the radar
- Universal mounting bar
- Specific supports that fit any type of installation
- Able to be secured by padlock for added security.



## Setting up: an interface for pre-selecting speed limit

Configuration directly on the radar:



## Where to place them for maximum effect?

To achieve significant speed reductions, drivers need to be reminded of their speeds for as often as possible. Town entrances, village main roads, approaches to schools - for maximum effectiveness, the best positions are:

- Locations visible from a substantial distance (50 to 200 meters)
- Locations providing a clear line of sight to allow the antenna to detect individual vehicles across a longer distance (avoiding trees, crossroads, car parks, etc.).





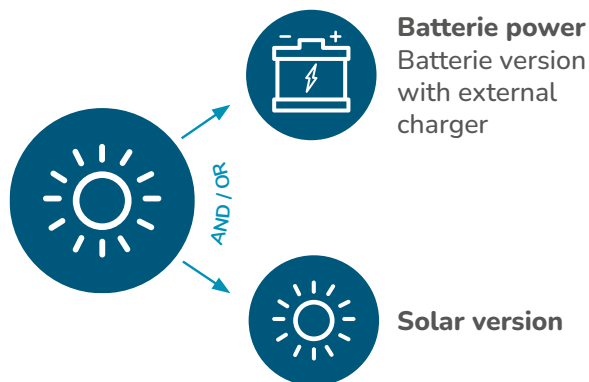
# FOUR POWER SUPPLY MODES FOR ADAPTABILITY TO ALL LOCATIONS!

Two versions of EVOLIS Mobility with four low-energy power supply modes are available for adaptability to all your town's situations and all climatic conditions.

## SOLAR PACK



### POWER



### AUTONOMY

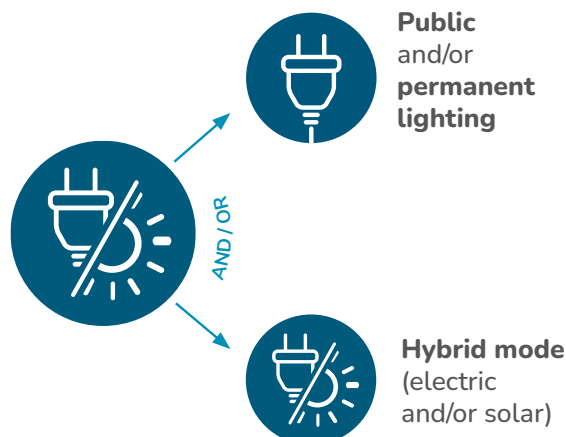
A charge life of **1 to 2 weeks** (depending on traffic)  
Upgradeable to solar-powered

**Guaranteed autonomy**  
- 100 watts: up to **7,000** vehicles/day  
- 150 watts: up to **12,000** vehicles/day

## HYBRID PACK



### POWER



### AUTONOMY

**Complete autonomy** with a minimum of 5 h of continuous public lighting

**Complete autonomy**  
EVOLIS Mobility can be fitted with a solar panel at a later date





# TECHNICAL CHARACTERISTICS

DISPLAYS	Speed Digits	3 digits (0 to 199) Dimensions: 380 x 450 mm Colour: green / amber / red Visibility: 3-LEDline thickness
	Smileys	Colour: green / red Dimensions : 300 x 300 mm
	LEDs	OSRAM C.M.S high-luminosity, ultra-low consumption Service life > 100,000 hours
	Photosensitive cell	High-precision sensor for adaptation to the light
DOPPLER RADAR ANTENNA	Range	Up to 300 metres
	Accuracy	within 1%
	Angle of detection	33 degrees
	Frequency	24.125 GHz
TRAFFIC STATISTICS	Analysis	In both traffic directions (incoming/outgoing)
	Data	Average and maximum speeds, number of vehicles, time stamps, percentiles (V30/V50/V85)
	Memory	16 Mo, 5 million vehicles recorded
	Operation	With the software package. Output exportable in Excel, CSV, or PDF files.
SETTING UP	Local	USB and Bluetooth® (PC or Android/iOS mobile appliance with mobile app) Prerecorded speed bands with selection interface
	Remote	4G modem with Web interface (operational status of appliance and statistical analysis)
HOUSING	Dimensions	710 x 770 x 160 mm (W x H x D), with two battery slots
	Weight	9.2 kg (excl. batteries)
	Material	ABS resin, anti-UV, one-piece injection moulded body
	Colour	Grey, through dyed
	Ingress protection	IP65
	Security	Lock and specific key, also provision for padlock
	User access	External access to batteries, speed change interface, and USB port. Secured by two locks
FRONT FACE	Material	Polycarbonate with nonreflective surface
	Decoration and text	Regulatory red and white border - Silkscreened text "Your speed is" Reverse silkscreen printing
	Shape	Convex for optimum protection against projectiles
POWER SUPPLY	Battery	Lead-acid 12V, 22Ah Weight: 6.2kg Dimensions: 181 x 76.2 x 167mm (L x W x H)
	Charging by solar panel	100 watts Monocrystalline high-output cells Dimensions: 806 x 680 x 35 mm (L x W x H) Smart charging management
	Charging from street lighting or grid	Internal power 220 V Smart charging management Integrated protection fuse
COMPLIANCE	European standards	Directive RED 2014/53/EU Directive RoHS 2011/65/EU Directive WEEE 2012/19/EU



## A COMPREHENSIVE RANGE FOR ROAD SAFETY AND LOCAL COUNCIL COMMUNICATION

Drawing on its expertise in radar speed displays, Élan Cité capitalizes on its know-how and flair for innovation by expanding into other areas of display, including municipal information and road traffic management. The priority remains the guarantee of reliability, durability, toughness, and ease of installation and use.

### EVOLIS®

**The most effective radar speed display in the world, providing the highest efficiency**

- Significant, lasting decrease in speeding
- Recording of traffic statistics in both directions
- Bluetooth® and/or 4G communication
- Available with solar and/or electrical power supply



EVOLIS Vision



EVOLIS Mobility

### EVOCITY

**The only electronic information display that can run on 100% solar power or public lighting**

- Excellent reading quality in all conditions of light
- Versatile: can be relocated



### EVOFLASH

**A beacon to boost your existing road safety signage**

- Triggering on vehicle detection and/or overspeed
- Adaptable to all support posts: universal fastening and solar self-sufficiency



### EVOTRAFFIC

**The road traffic counting and analysis tool with the easiest implementation**

- Detailed traffic statistics: number of passing vehicles, speed and classification by vehicle type
- Maximum accuracy with detection by tube
- Data interpretation software, complete and simple to use



Find out more by consulting your assigned sales representative



## A TEAM LOCAL COUNCILS HAVE LEARNT TO COUNT ON



Élan Cité has been designing, manufacturing, and distributing products to fulfil the needs of local authorities for over 20 years. We are first and foremost a team focused on customer satisfaction, with a strong commitment to tackling issues that lead to improvements in local road safety.

Founded in 2005

50 staff

Nearly 20.000 towns and villages equipped and nearly 50.000 units in operation

### Élan Cité, the safety and security partner

It doesn't matter whether you are a municipality, a district council, a county council, or a big city: our experts with their solid experience in the trade (7 years on average) will bring you unmatched effectiveness in the materialization of all your projects.



Many private sector enterprises also trust us for securing access to their production sites. EVOLIS can be adapted to all situations.

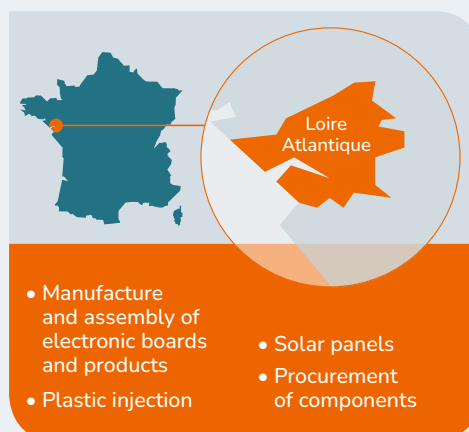
**AIRBUS**

**amazon**

### 100% high-quality French manufacture

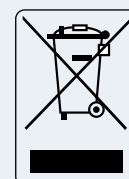


All our second-tier suppliers are also French and ISO 9001 certified. By operating stringent checks at each stage, we are able to guarantee you consistent optimum quality.



Furthermore, we are fully committed to complying with European environmental regulations. Our products comply with RoHS and WEEE directives, ensuring environmentally friendly and responsible management of electronic waste.

Additionally, a specialized waste treatment channel is in place to guarantee their recycling in accordance with environmental standards.

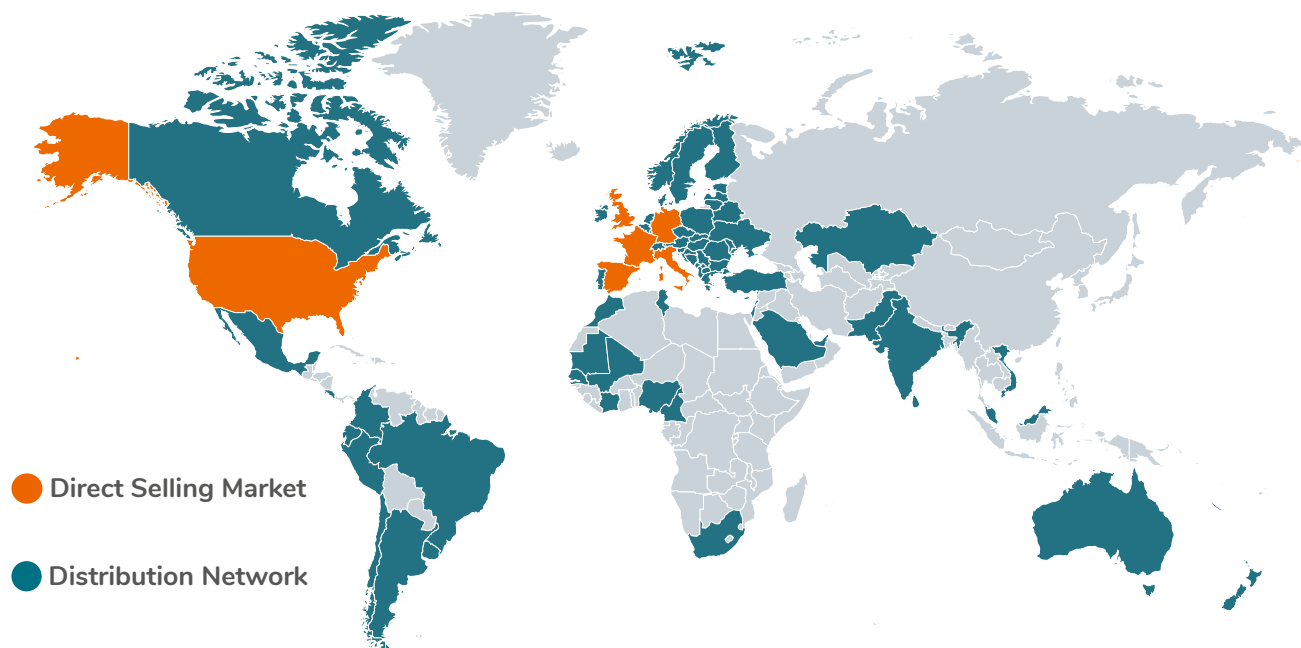






# A PRESENCE ALL OVER THE WORLD

Élan Cité is the founding entity of Elan City Group. Today, Elan City has 5 European subsidiaries, 1 subsidiary in the United States and a global presence thanks to a distribution network of more than 40 distributors.



- **Elan City Germany**  
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Discover EVOLIS Vision  
on video by flashing  
this QR Code!