syride ®

SYS'Evolution

User manual

Foreword

Welcome to Syride community! You are maybe owning the best instrument of Syride range! Your SYS'Evolution belongs to a new generation of flying instrument, we call it a "flight computer".

Let's move on and stop reading this boring preamble! If you want to take benefit of all the features of your instrument, read this user manual!

Syride team wishes you great flights…

I.   Setup Syride communication software

This software is mandatory. It is called the « SYS PC Tool », and ables you to update your instrument, fine-tune the settings, download your flights (and optionnaly send them to Syride online flightbook), upload routes, waypoints, etc…
Please be aware that the SYS'Evolution is also compatible with GPSDump software (version 5.20 and above).

1. **Download the lastest version of the SYS PC Tool** by checking the following webpage :
   http://www.syride.com/en/logiciel

2. Follow the instructions to install it on your computer

3. Once installed, an icon shows in the task bar. It detects when your instrument is connected.

4. The software will automatically start with your operating system.

II. Turn ON and OFF the flight computer

It is important to know that compared to other displays, the one the SYS'Evolution is using does not require any power to keep its image displayed. This is why when you received it, some information may already be displayed on the screen!

1. To turn ON your flight computer, press the START button once. **A small red light turns-on in the eye of the eagle to indicate that the instrument is ON.**
   The boot sequence lasts a few seconds to initialize all the sensors. The "**GPS booster**" is then activated to minimize the time of reception of the GPS signal. As soon as the reception is sufficient, the instrument will automatically switch to the flight screen.
2. The instrument will be automatically turned OFF after **20 minutes** of inactivity (no ground speed nor vario). To manually turn it OFF, press the START button during 2 seconds, until the display wipes out.
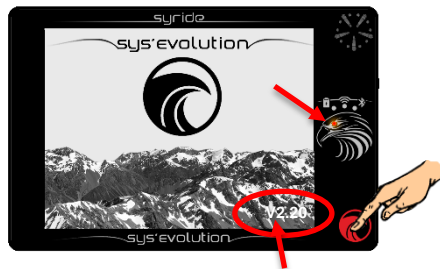
Instrument software version
(Also visible in the Info menu, see page 9)

III.   Charge the battery

1. In order to charge the instrument, just use any mini-USB cable that you could connect to any power supply (computer, phone charger, cigarette lighter..). A red light on the battery icon indicates the flight computer is charging. A full charge from an empty battery takes up to 8 hours. It is NOT recommended to charge through a USB hub device.

2. If the instrument is connected to a computer a screen symbolizes it. You can disconnect it at any time.

3. In running mod, draw a "slide-down" movement on the screen with your finger in order to display the top banner during a few seconds.

4. Disconnect the instrument to stop charging it. The Li-ion battery isn't affected by a memory effect.
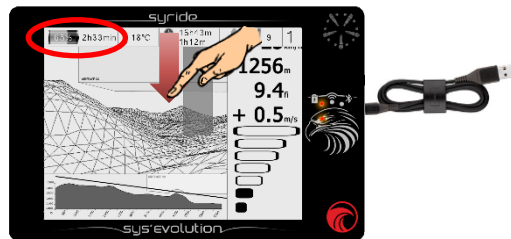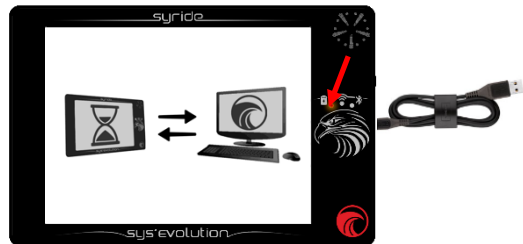
IV. Place the instrument in flight

1. Syride suggest to place the SYS'Evolution on a cockpit.
Two adhesive velcro bands are included and can be sticked on the back of the instrument.
Please take care not to obstruct the Reboot hole with the velcro.

2. The size of the flight computer permits to place it on a ventral rescue parachute.

3. You can secure the SYS'Evolution using the lanyard.

4. For more comfort, a neoprene protection housing with velcros is sold separately.

V.   General ergonomics

While the instrument is running, the whole display is dedicated to flight items. In order to make the menus appear, draw a slide-down or slide-up movement with your finger, By applying a slight pressure on the screen :

- The top banner appears during a few seconds by sliding down :

Temperature inside the device

Time and flight time

Number of satellites GNSS

Screen number

Battery level
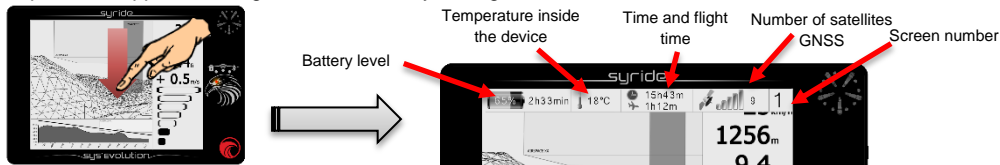
- Slide left or right in order to go to next or previous flight screen :
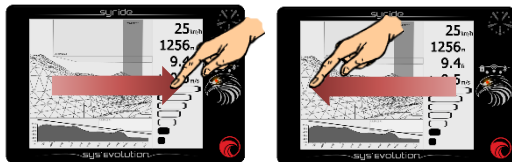
- Slide UP to display menus :

Parameters menu   Audio menu   Navigation menu
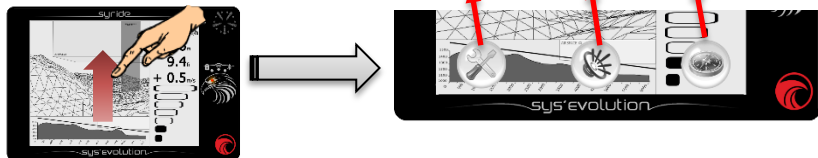
For your information :

- **A slight pressure must be applied to use the SYS'Evolution touchscreen**. This technology allows to use this instrument with gloves

- The take-off is automatically detected and starts the log. The flight time in the top banner appears after take-off.

- The touch-screen is designed to be used with or without gloves.

- Any flight item that requires GPS needs at least 3 satellites. Otherwise, a "NO GPS" message may show up instead of the item.

- **The first GPS fix can take several minutes in case of long power-off or in case of significant change in position. Any first GPS fix should be done outside. We recommend you to turn ON the instrument a few minutes before taking-off.**

- The temperature only indicates the temperature of the electronics. This cannot be used as a reference for ambient temperature.

- A 3.5mm jack socket is available on the right side of the device. Plugging a headset automatically transfers any sound from the speaker to the headset (and cuts-off the speaker).

Parameters menu

System information

Bluetooth setup

GNSS setup

Wifi setup

Weather station setup

Advanced parameters

Flightbook

Back to flight screens
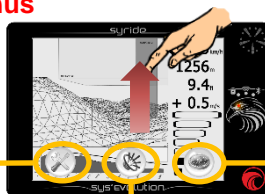
Audio menu

Sound ON/OFF

Volume

Vario thresholds

Airspace alarm ON/OFF

Lifty-air ON/OFF

Back to flight screens

Navigation menu

GO TO waypoint

Route menu

Airspaces menu

Skip next waypoint

View route

Back to flight screens

10

VII.　　　Parameters : System information

To reach this page, slide up from a flight screen to make the menus appear, then click the « Parameters menu » button, then click the « System information » button.
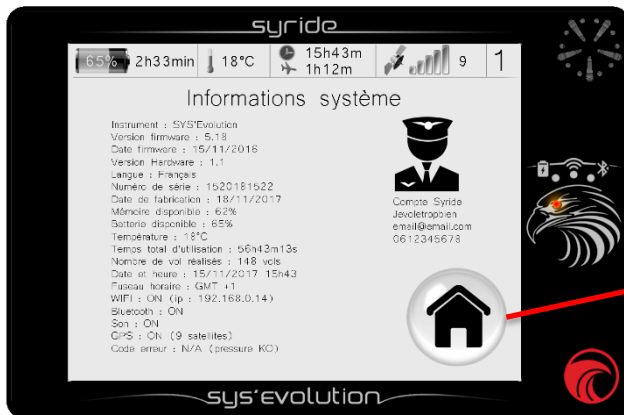
Back to
« Parameters menu »

This pages displays all information about your SYS'Evolution. If a Syride account has been associated, these information also display.

VIII.   Parameters : Wi-Fi setup

To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click the « Wi-Fi setup » button.

Enables or disables Wi-Fi

Visible if Wi-Fi is enabled: Lists available networks.

Visible if Wi-Fi enabled: Advanced parameters of Wi-Fi connection

Back to parameters

When enabled, the Wi-Fi reduces battery life. A red light indicates whether Wi-Fi is enabled or not. Advanced parameters enable you to choose what data should be sent or received over Wi-Fi. (Weather, flights, etc...).

IX.   Parameters : Bluetooth setup (Coming soon)

To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click the « Bluetooth setup » button.
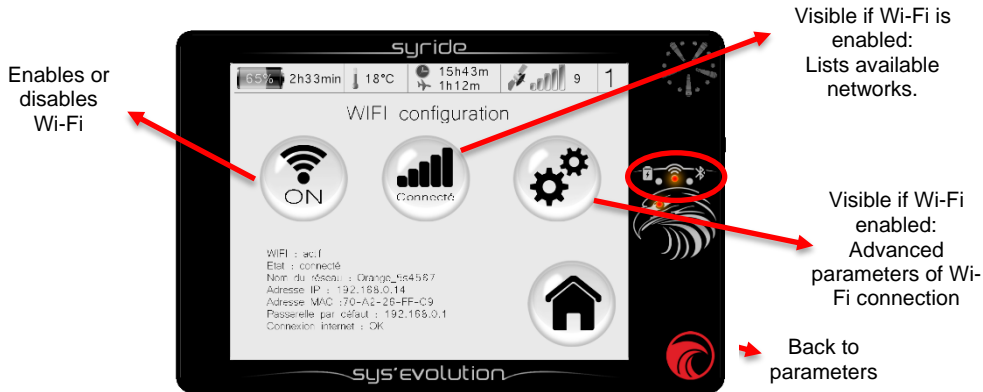
Enables or disables Bluetooth

Visible if Bluetooth enabled:
Lists available networks.

Visible if Bluetooth enabled:
Advanced parameters of Bluetooth connection

Visible if Bluetooth enabled and attached to smartphone application:
Let the pilot send emergency messages

Back to parameters

When enabled, the Wi-Fi reduces battery life. A red light indicates whether Wi-Fi is enabled or not. Advanced parameters ables you to choose what data should be sent or received over Wi-Fi. (Weather, flights, etc...). In case Wi-Fi and Bluetooth are both enabled, any data will be sent or received through Wi-Fi.

About emergency messages:

The emergency icon only appears if:
- Your instrument is synchronized with your smartphone.
- Syride application has been installed on your smartphone (Android and soon iOS).
- You have a Syride account on www.syride.com.
- You have setup the messages and a list of recipients from Syride application

An SMS will be sent (if your smartphone is connected to -at least- a 2G network) as soon as you press an emergency button. As soon a message has been sent, LiveTracking is automatically turned ON on the Smartphone application, and the pilot can be located on https://www.syride.com/fr/live/pseudo

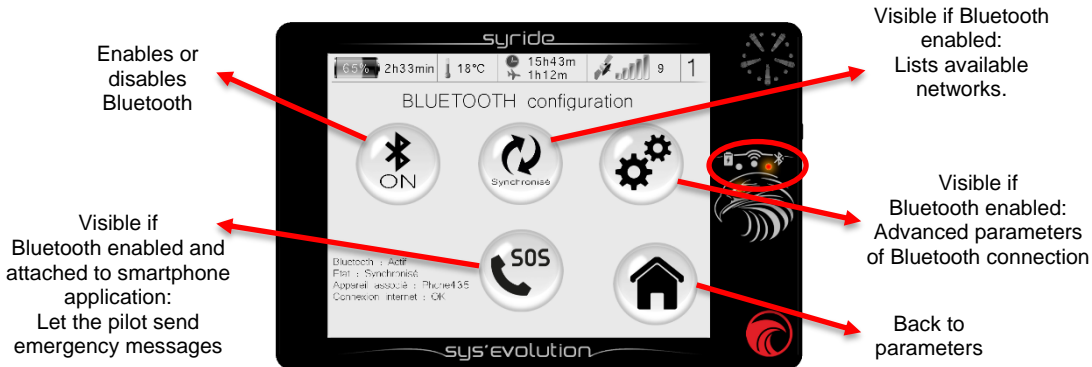Back to parameters

Sens an SMS

X.   Parameters : GNSS setup

To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click the « GPS setup » button.

Visible if GNSS enabled:
Displays synchronized satellites

Enables or Disables GNSS

Visible if GNSS enabled:
Advanced parameters of GNSS

GPS : Actif
Précision : élevée (9 satellites)
Economie d'energie : OFF
Satellites en vus : 12
Satellites synchronisés : 9
Position :
N5.154894645 / S3.878764645
N5°13'56.125' / S3°25'32.125'
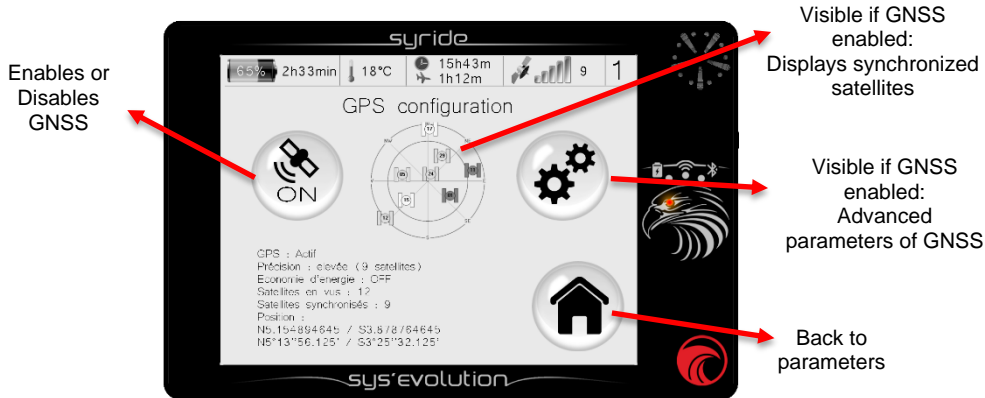
Back to parameters

Enabling GNSS is mandatory for track recording and displaying a lot of items (like the Route, the drift, GPS altitude, etc…). In the advanced parameters, it is possible to force the log of your track; this inhibits the take-off and landing detectors.

Advanced settings let you know the signal strength of each satellite. The gray bars show the signals received by the SYS'Evolution but not used for the calculation. The black bars show a signal used to locate you.

Energy saving mode allows you to limit the consumption of the GPS receiver when you have a good reception.

Choose the GNSS you want to use with the SYS'Evolution. At most 3 can be activated simultaneously:
GPS : Navstar (USA), **GAL** : Galileo (European), **BEI** : Beidou (Chinese), **QZS** : Quasi-Zenith Satellite (Japanese), **GLO** : Glonass (Russian).
The satellite-based augmentation (SBAS) of the SYS'Evolution GNSS chip is active by default.
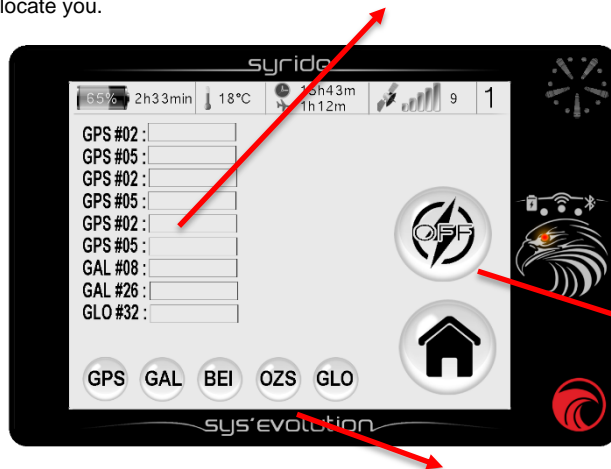
XI.   Parameters : Weather station setup (Coming soon)

To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click « Weather station setup » button. The weather-station screen is active in standby mode. It is a customizable screen that can display weather forecast which is updated on a regular basis. Wi-Fi is required in order to download weather data. Decreasing the weather refresh rate increases battery life.

Visible if weather station enabled:
Adjusts the refresh rate of weather data

Enables or disables weather station

Visible if weather station enabled:
Enables GPS to locate the nearest weather information, or setup customized coordinates

Visible if weather station enabled:
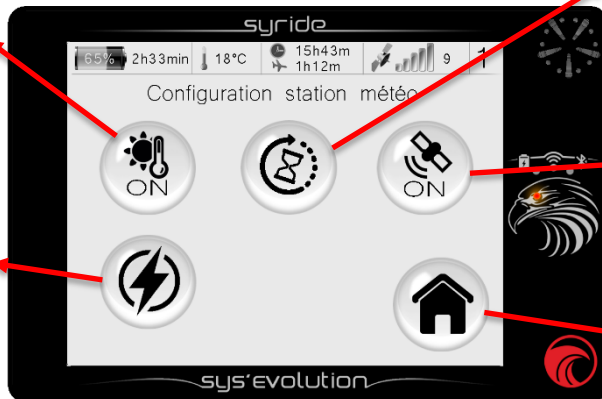Adjusts the minimum battery level before complete shutdown.

Back to parameters

17

XII.   Parameters : flightbook

To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click « flightbook » button. On this page, you will find all information about your flights. In case you enabled the synchronisation with Syride online flightbook, removing a flight from the instrument will not remove it from the website.

The « cloud » icon indicates this flight has been synchronised with Syride Online Flightbook (through SYS PC Tool, Wi-Fi or Bluetooth).

Previous flight

Next flight

Delete this flight

Back to parameters

XIII. Parameters : advanced parameters (instrument)
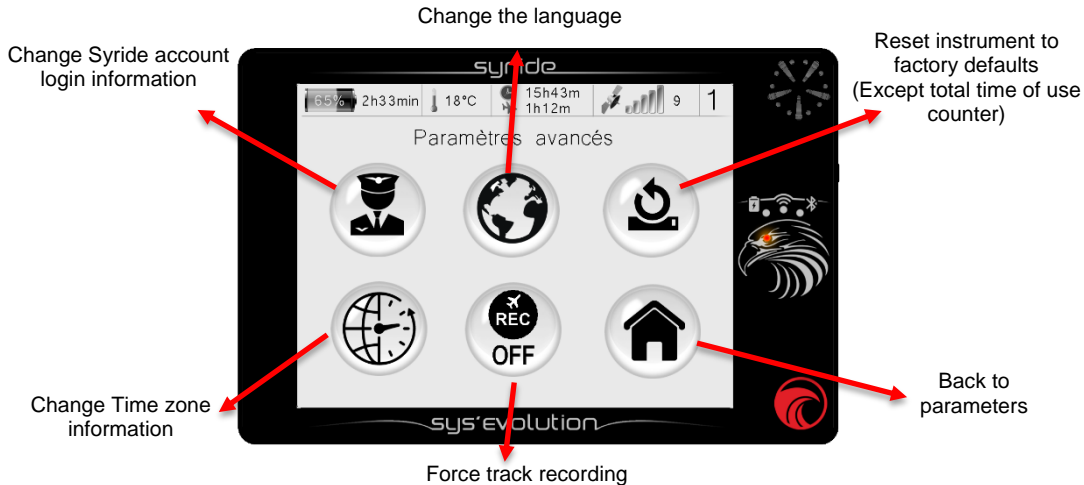
To reach this page, slide up from any flight screen to make menus appear, then click « Parameters menu » button, then click « advanced parameters » button.

Change the language

Change Syride account login information

Reset instrument to factory defaults (Except total time of use counter)

Change Time zone information

Back to parameters

Force track recording

About the « reset to factory defaults » button:

The first step after a reset to factory defaults consists in calibrating the touchscreen. This is done by clicking on each of the 5 crosses.
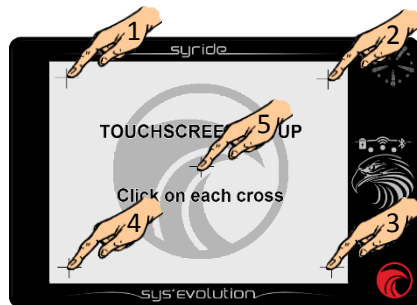
Then comes the calibration of the magnetometer. This is done by turning the instrument in all possible directions (360° vertically and horizontally). Click anywhere on the screen once done.
This step is important because it will highly influence the precision of the magnetometer.

XIV.   Navigation : GOTO feature

To reach this page, slide up from any flight screen to make menus appear, then click « Navigation menu » button, then click « GOTO » button. This feature allows the pilot to easily create a one-waypoint route to one of the nearest waypoints. The waypoints are ordered by distance from the current position. Please note that activating a GOTO waypoint instantly stops the previous route, if ever one was activated.

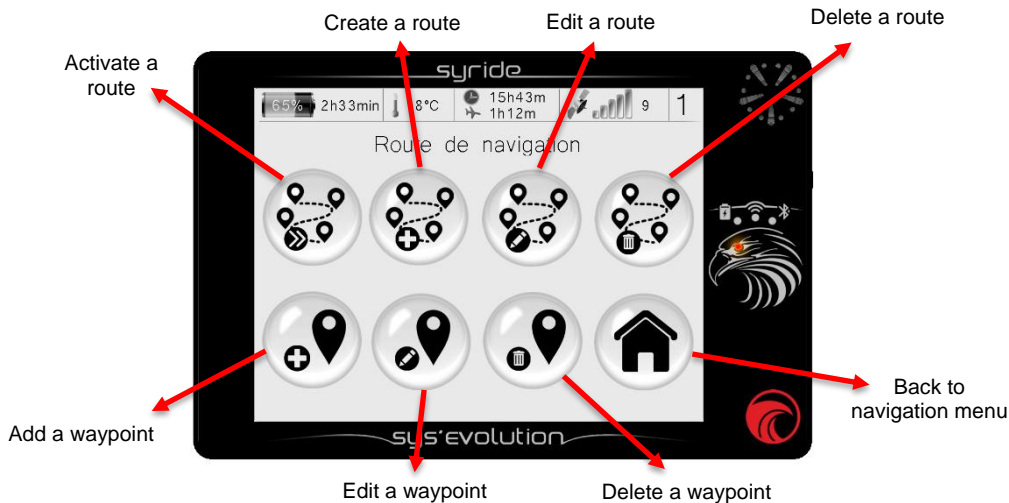Back to
Navigation menu

Starts a route to
this waypoint

XV.   Navigation : route menu

To reach this page, slide up from any flight screen to make menus appear, then click « Navigation menu » button, then click « Route » button.

Create a route

Edit a route

Delete a route

Activate a route

Back to navigation menu

Add a waypoint

Edit a waypoint

Delete a waypoint

Notes :

- Creating a route is only possible if at least 1 waypoint is available in the instrument.

- Creating a waypoint requires a name, its GPS coordinates, and its altitude. The altitude is not mandatory, but is required to display the "glide ratio to waypoint" item.

- If you already have a waypoints file, it is possible to send this file with the SYS PC Tool by clicking the "**Send a file to the instrument**" icon. Using GPSDump software (above version 5.20) is also an alternate solution. GPSDump supports more waypoints file formats, and handles waypoints more efficiently.

- **To create a route from the instrument proceed as follows:**

1) The first step is to give your route a name.
2) When selecting the first waypoint, you can choose either a classic one (**Waypoint**) or a "**START IN / START OUT**" waypoint (for competition: You must be IN the cylinder before the specified time (IN), or OUT of the cylinder after the specified time (OUT)).
3) When selecting waypoints you can define a radius (default 400 m according to FAI rules) as well as an altitude (optional) for the calculation of the glide ratio item to the waypoint.
4) You can, if you wish for the last waypoint insert a "**GOAL CYLINDER**" integrating in addition to a classic waypoint the maximum arrival time, or a "**GOAL LINE**" which will be a perpendicular finish line to the defined route, or finally a " **CONICAL GOAL** ".
   Click "**END ROUTE**" when finished. The route is ready to be loaded.

Out of competition, the simplest way to create a route or a list of waypoints is to use our online tool, called **«** ***Route maker*** **»**. Simple, fast and efficient, you can create a route in a few minutes.

To build a route with the online tool **«** ***Route maker*** **»** :

1)   Go to the webpage http://www.syride.com/fr/route or click on the **Syride Tools** menu in SYS PC TOOL **.**

2)   This online tool allows to define waypoints, cylinders… When your route is ready, click on the **Download the route file** button to save it on your computer, or on the **Directly upload the route to your instrument** button to send it to your instrument which should be connected and turned on). Please note that only the first method will allow you to keep a backup of your route file on your computer.

3)   If you've downloaded the route file to your computer, turn on your SYS'Evolution and connect it to your computer, then click on the **"send a file to the instrument"** icon in SYS PC TOOL

4)   To activate the route in your instrument, go on the **Navigation** menu in the SYS'Evolution, then click the **« Start a route »** button. **Don't forget to add the indicators you'd like to use** (e.g. *Waypoint information*) to your screen configuration (see "Customize your flight screen section")

5)   To skip a waypoint without reaching it, click the **« Skip waypoint »** button on the **« Navigation »** menu.

XVI. Navigation : airspaces menu

To reach this page, slide up from any flight screen to make menus appear, then click « Navigation menu » button, then click « Airspaces » button. When approaching an airspace, an audible and visual alarm appears : « **pre-violation + airspace name** » appears on the bottom of the. If you enter this airspace, a new alarm triggers and a message « **violation + airspace name** » displays.

This menu ables the pilot to enable or disable an airspace alarm. A disabled airspace will be ignored in all airspace-related items, including the MAP item.

Back to navigation menu

Enables or disables an airspace
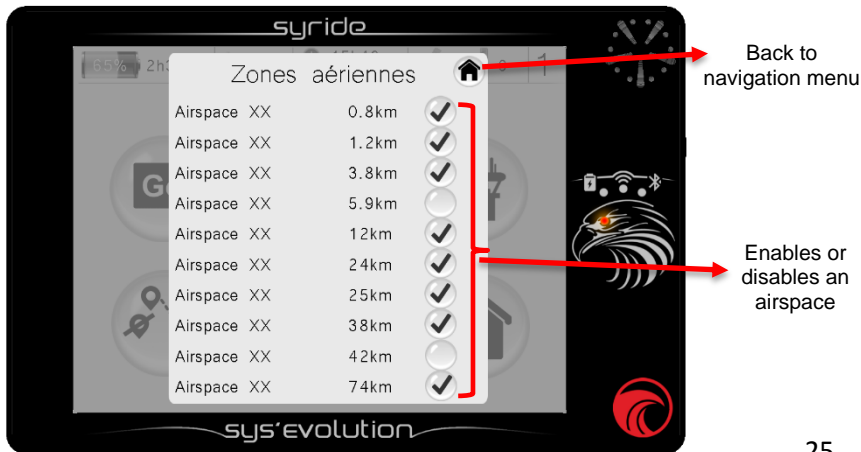
In order to update airspaces in the SYS'Evolution :

1) Go to this page : https://www.syride.com/en/airspace or click on the **Syride Tools** menu in SYS PC TOOL
2) Select the countries you need from Syride online tool, then download the OpenAir file to your computer.
3) Turn-on and connect your SYS'Evolution to your computer.
4) On the SYS PC Tool, click on the **"send a file to the instrument"** icon.
5) Select the previously downloaded OpenAir file.

A few useful tips and informations about airspaces :

- **The data provided in the airspace files that you can download from Syride are not official**, and you should not use your SYS'Evolution as a main navigation reference. Please refer to the official sources of aeronautical information (for example: http://www.sia.aviation-civile.gouv.fr/ for France). These files are usually provided free of charge by the federations, the information they contain is not guaranteed and we shall not be liable for the consequences of their uses

- We advise you to check the version of the file you intend to load. Airspace evolves on regular basis. In addition, zones can change class depending on the time of the year and time of day and may not be visible on the instrument (for example: Chambery TMA which passes from a class D to a class E).

- A knowledge of **aeronautical rules** an a **flight briefing** are mandatory to correctly use the information given by the instrument.

- Some **temporary forbidden zones** may exist. They are signaled by NOTAM (Notice to Airmen) and cannot be handled by the instrument.

- **In France, VFR flights without radio contact are limited to Flight Level 115** (about 3450 m). It is allowed to fly above this limit in zones called Class E LTA (Vanoise, Bauges, Mont Blanc…). **You should consult each countries regulation to learn about local rules.**

- You can **add your own airspace files**, as long as they respect the Openair format.

- For ease of calculation and readability, **airspaces that are 5000ft above your current altitude will not be listed in the menu nor displayed on the 3D and map**. The refresh of the list is done every 2 minutes.

- **Airspaces with more than 150 polygon points** can not be technically represented on the 3d view.

- **Airspaces that are based on altitude above ground** (AGL) can have a different representation than reality on the 3d view. However, violation alarms will be triggered correctly.

XVII.   Advanced setup (software)

Connect your SYS'Evolution to the SYS PC Tool in order to get access to advanced options. From these advanced options, you can, for example :
- Change the averaging time of the vario.
- Change the G-force alarm threshold value
- Change airspace pre-violation vertical and horizontal distances.

To access these advanced parameters :
1) Turn-on and connect your SYS'Evolution to your computer.
2) On the SYS PC Tool software, click on the "Parameters" icon to open the setting window.
3) Modify any value.
4) Click on « **Send parameters** »
5)
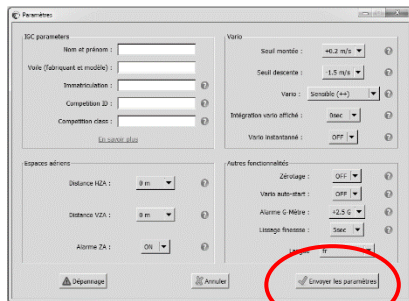
XVIII.   Customize the flight screen and the vario

With the SYS'Evolution, you can customize each flight screen, and the sound of the vario.
To customize your flight screens :
1) Go to this webpage : http://www.syride.com/fr/ssctool/Evo
2) Customize the flight screens by selecting an items and its unit, then selecting a text font and size. Drag and drop to change the item's position.
3) Turn-on and connect your instrument to your computer.
4) Download the screen setup file.
5) On the SYS PC Tool, click on the "***Send a file to my instrument***" icon.
6) Select the previously downloaded file and click Open

Don't hesitate to share your flight screen to your friends, or create a folder with different setups.

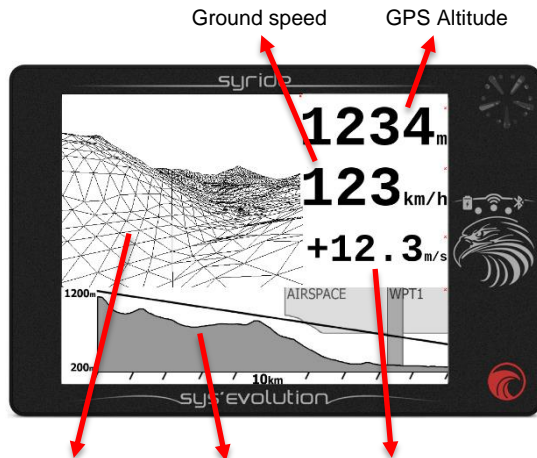The vario sound setup works on the same basis. A video shows the process here : https://www.youtube.com/watch?v=5Mom0qx6bgE

Details about the default flight screens :

Standby (weather) screen :

Weather of St Hilaire

Free text « Battery »

% Battery level
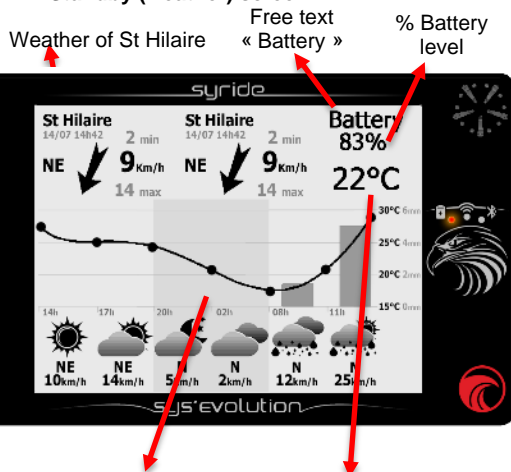
48h weather forecast

Instrument internal temperature

Flight screen N°1 :

Ground speed

GPS Altitude

Augmented reality

Transition assistant

Vario

Flight screen N°2 :

Flight screen N°3 :

Vario history

Thermal core

MAP


Altitude history

GNSS Altitude

Dynamic vario
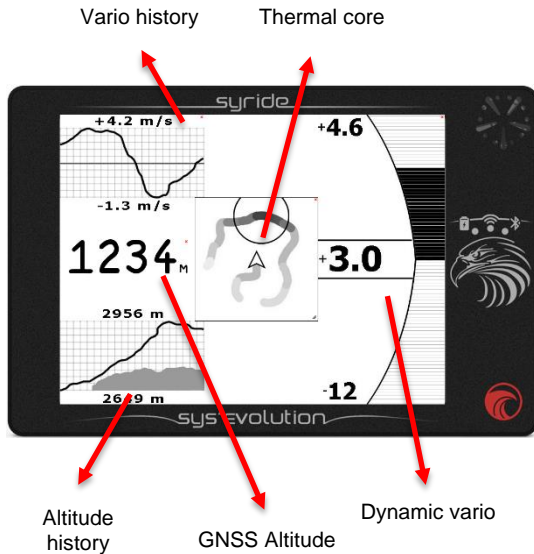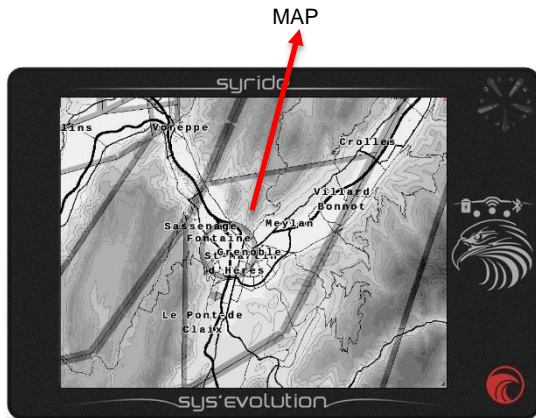
Details about items of the SSCTool, Syride Screen Configuration Tool (**A "NO GPS" on an item means that it is waiting for GPS signal reception to display the information**) :

GNSS Altitude : is given by the GNSS. It is the vertical distance between you and the mean sea level. This is a reliable altitude but can be inaccurate in case of bad GPS signal.

QNH altitude : This altitude initially uses the GPS signal until the vertical accuracy is less than 6m. Then it uses the ambient pressure to calculate your altitude. If you mount your instrument by one meter with your hand, the altitude will rise by one meter (which will not be necessarily the case with GPS altitude). This altitude is accurate, but may become less reliable if you are flying a long time or traveling a long distance.

QNE altitude : is your current pressure altitude, supposing the current pressure at mean sea level is 1013.25 hPa. This information is required for airspaces that are described in "flight level".

Altitude history : is a graphic that shows the 2'30 last minutes of your altitude. The black curve is the recorded altitude, the gray area is the recorded topography at the recorded position.
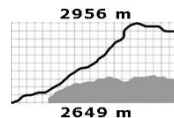
Vario history : is a graphic that shows the 2'30 last minutes of your vario.
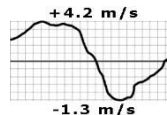
Graphical dynamic vario : is a graphic that shows your current vario. The termed "dynamic" refers to the fact that the MAX and MIN vario displayed is not fixed, and depends on the MAX and MIN vario of the last minutes.

Gmeter : displays the current force applied to your body. Without any movement, the G force is 1.0g.

Gain since takeoff : is the vertical distance between your current altitude and your takeoff altitude. A positive value means you are above takeoff, while a negative value indicates you are below takeoff.

Pressure : is the current pressure, in hPa.

Distance since takeoff : is the horizontal distance from your takeoff to your current position.

Instant glide ratio : is noted « GRI » for « Glide Ratio Instant ». This item shows your current glide ratio. GRI = Ground speed / Vario.

Smoothering the glide ratio value is possible through the advanced parameters from the SYS PC Tool (menu « Option / Setup / Instrument / Advanced parameters ».

Heading : is your current instrument's magnetic orientation. Note that this indicator is corrected by the magnetic declination, which depends on your current position. As a consequence, this item displays the true heading instead of magnetic heading.

Course : is your current course. Without wind, the course equals the heading.

Drift angle : is the difference between your course and your heading. Drift angle = Course – Heading.

Temperature : gives the internal temperature of the instrument.

Back to previous thermal : the SYS'Evolution always keep track of the previous thermal. Fly in the direction the arrow is pointing to go back to the previous thermal.


Wind - graphical : in order to get the speed and direction of the wind, fly a 360° turn at constant speed and glide ratio, within 10 to 30 seconds. The instrument will compute the drift and will be able to display the wind direction and speed. The wind direction represented by the arrow is dependent on your current course.
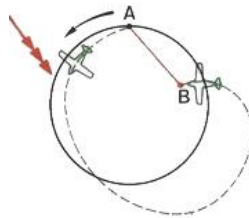
Wind direction : indicates where the wind comes from, using the cardinal points. It is displayed in letters, as N for North, NE for North-East, E for East, SE for South-East, S for South, SW for South-West, W for West and NW for North-West.

Vertical airspace name and distance : these items show the name and distance to the nearest vertical airspace **at your current position**.

Horizontal airspace name and distance : these items show the name and distance to the nearest horizontal airspace **at your current altitude**.
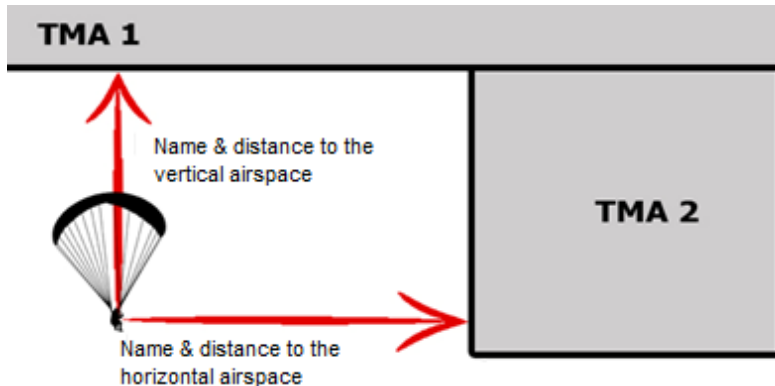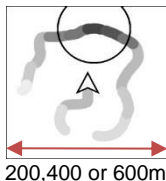
Augmented reality : represents the forward world in 3D, waypoints, airspaces, etc..

Transition assistant : is a side view of the topography (which is dependent of your current course), plus your current glide ratio. Click on the item to change its range.

200,400 or 600m
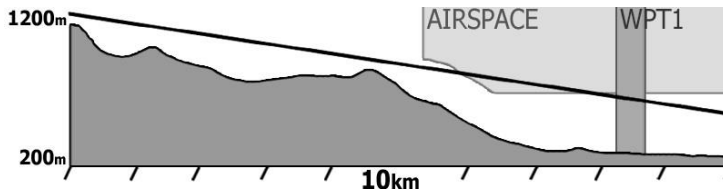
Thermal core : shows your path and its vario. The higher the vario, the darker the track. The circle indicates the position of the highest vario. Click on the item to change its scale.


Waypoint information : is the most useful item to follow fly a path in a minimum time. As soon as a route is started, this item will display next waypoint's name, distance and optimum course. The optimum course takes the 2nd next waypoint into account.
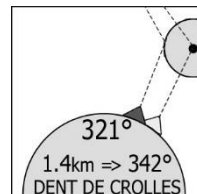
Glide ratio to waypoint : is noted « GRW » for « Glide Ratio to Waypoint ». This item indicates the required glide ratio to reach next waypoint.

Glide Ratio to Goal : is noted « GRG » for « Glide Ratio to Goal ». This item indicates the required glide ratio to reach the goal (i.e the last waypoint) of the current route.

Graphical options : ables you to draw boxes, add text, etc..
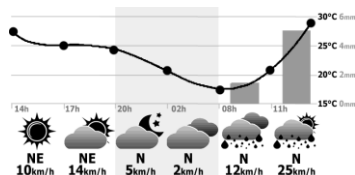
Weather station : shows the next 24h, 48h or 72h weather forecast.

Ideal for the standby mode.

37

NO DATA :(

Check Wifi
or Bluetooth
connection

Weather data : ables you to get real-time weather. To get these informations, a network is required through your Smartphone and Syride application.

St Hilaire
14/07 14h42   2 min

NE   **9 Km/h**
                14 max

As soon as the data are available, you will have all the current weather information, like station name, date of data, wind speed and direction. When adding this item, you will have the choice between a list of weather stations, or "the nearest station".
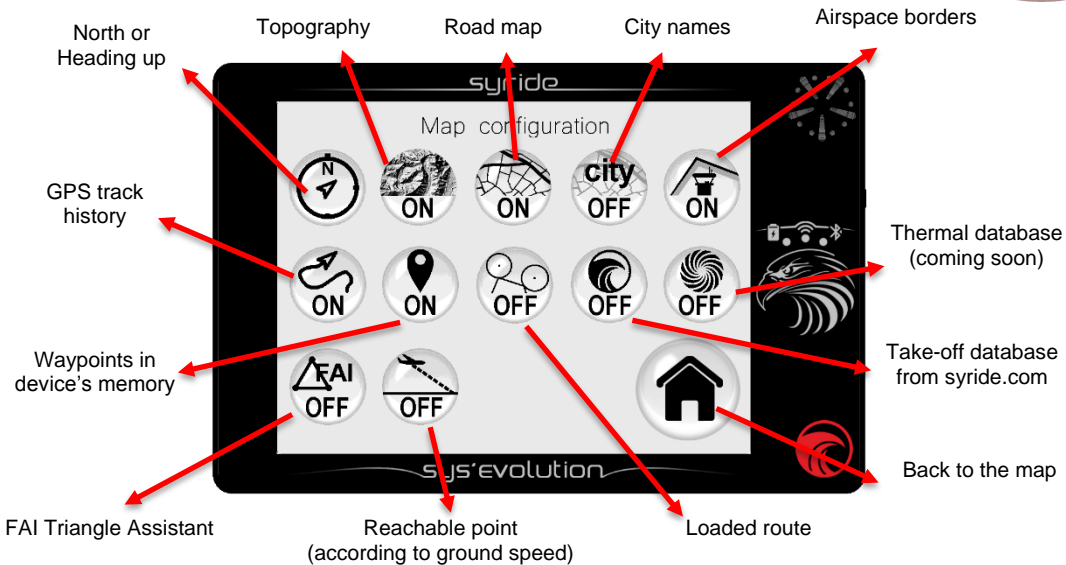

Settings   Zoom

MAP : displays a top view of the map. This includes, depending on the level of the zoom and on your settings: Your position, your GPS track, cities names, roads, topography, airspaces, waypoints, loaded routes (including waypoints, cylinders, and optimized route), Syride takeoff sites… It is possible to have several maps with different settings in the instrument!

Clicking the "Settings" icon of the map will display the map settings menu:

North or
Heading up

Topography

Road map

City names

Airspace borders

GPS track
history

Thermal database
(coming soon)

Waypoints in
device's memory

Take-off database
from syride.com

Back to the map

FAI Triangle Assistant

Reachable point
(according to ground speed)

Loaded route

Map configuration

ON ON ON city OFF ON

ON ON OFF OFF OFF

FAI OFF OFF

syride

sys'evolution

Buttons : Take shortcuts by adding action buttons directly in your screen configurations ! Here are a few examples :

Save your current poisition in a waypoint (named by the date and time of creation)

Display the GOTO menu

Activate or deactivate the sound

Activate or deactivate the airspace currently warning for pre-violation or violation

Turn the instrument off

Activate or deactivate thermal sniffer sound.

Skip next waypoint in the loaded route

Full screen refresh to clean the ghost displays

XIX.   Transfer your flights

1. Be sure you previously installed the SYS PC Tool on your computer.

2. Turn on and connect your instrument with the USB cable.

3. Click on the "*Account configuration*" icon.

4. The IGC/GPX and KML files are systematically duplicated on your computer. In order to use the flight logbook on syride.com, you must enter your email and password of your Syride account (you can create one on https://www.syride.com/en/register)
Check the login, and press OK to save.

5. Press the "*Download recorded flights*" button, and your flights will be
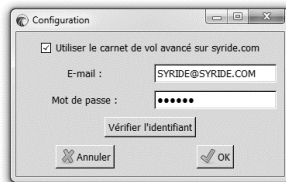
sent from the instrument, to the online flight book. You can have access to the files on your computer by clicking on File/open local directory.

6. You can modify your flight information (e.g. name, used glide, take off site and the type of flight) by clicking on the red pen and validate your modification with the green arrow.

7. To watch your track, click on the picture.

8. You can make your flight invisible for the Syride community by clicking on the eye icon on the top right. It will stay on your profile but the Syride users won't be able to see it.

9. You can look at your personal evolution on the flight page through location and time. You can also compare your stats and performances to the other riders.

Displayed ranking : World, since : 1 year

Distance

384 km ☆☆☆☆☆
wortex
Australia
Birchip Tow Paddock
GPS track

290 km ★★☆☆☆
antoineg
France
Col Agnel
GPS track

255 km ★★☆☆☆
guiguiblues
France
Col Agnel
GPS track

Overall ranking

Top Altitude

8157 m ★★☆☆☆
antoineg
Pakistan
Paju
GPS track

5908 m ☆☆☆☆☆
frek
Peru
Cerro Sacro
GPS track

5406 m ★☆☆☆☆
RezaFarokhpour
Iran, Islamic Republic Of
Shahinshahr
GPS track

Overall ranking

Flight time

10:49:56s ★★☆☆☆
antoineg
France
Col Agnel
GPS track

10:28:43s ★★★★☆
polosky
France
Col Agnel
GPS track

09:53:15s ☆☆☆☆☆
Ben.outters
France
Col Agnel
GPS track

Overall ranking

43
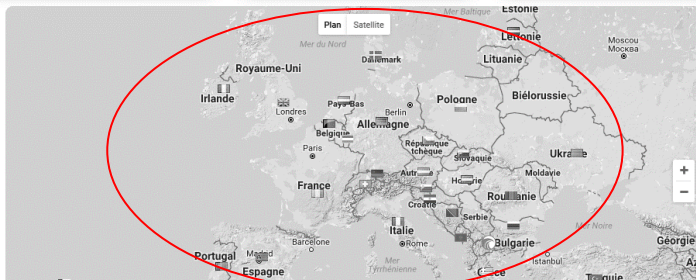
More information about the online flightbook :

- The online flightbook is optional.

- Published flights can be automatically set to "private" (see « My account » webpage).

- Flights can be sent to your online flightbook through Wi-Fi or Bluetooth if your login information has been set correctly: you must have set you login details on the instrument in the "*Parameters* / **Advanced *Parameters***" menu.

- If for any reason a flight hasn't been transferred to the website, and you'd like to add it manually, it is possible by following the answer to the questions *[Instrument] Some flights are missing on my online flightbook* and *[Instrument] Where are my flights on my computer ?* in our FAQ: https://www.syride.com/en/support

- It is not possible to send a flight from Syride website to your instrument. As a consequence, a deleted flight on your instrument cannot be recovered.

- The picture in the instrument logbook means the flight has already been transferred to Syride online logbook.

XX.   Suggestion of use

- **We suggest you to turn-on your instrument while preparing your flight in order to be sure you get the GPS fix before starting your flight.**

- Polarized glasses and sun-glasses helps reducing the sun **reflection** on the display

- Use the lanyard in order to **secure** your SYS'Evolution while flying.

- Electromagnetic perturbations, **such as VHF (from radios antennas) and magnets (used for example in some harness),** can disturb GPS signal and the magnetic compass.

- Internal protection automatically shuts down the instrument's battery power in case of **excessive temperature** (the instrument may not start if it is left too long in direct sunlight or in a vehicle). In flight the relative wind will allow the restart of the device.

- If the SYS'Evolution is very hot and you fly in very cold air, **fog** can appear on the screen. It will dissipate within a few minutes.

- Never turn ON the Wi-Fi or Bluetooth if your don't use it, as it reduces battery life.

- A **Factory Reset** from SYS PC Tool (menu Option → Advanced) allows you to get your instrument back to default state (every recorded flight will be deleted…). You can also use the **Parameters / Advanced Parameters** menu in the instrument.

- When you connect your instrument to a USB charger, the battery will start charging, even if the instrument is turned-off.

Notes

Important : Safety Notices and Warnings
Precautions of use for the SYS'Evolution
Never leave your SYS'Evolution unattended
Take care of your equipment by cleaning with a soft cloth regularly. Do not open the product, the screws are tight with a certain degree which guarantees the seal of the unit. This action would cancel your guarantee. If water were introduced by inadvertency into your SYS, open the USB cache to air it and wait until it is dry before lighting it. Do not expose our device to too high or too low temperatures, which risk damaging it for good. Avoid leaving it in full sun as an ornament, or putting it in the freezer! The soaring in the Antarctic is not guaranteed!!
Ensure that the product is well in position before taking off. Syride cannot be held responsible for the loss of the product during the flight (takeoff included).
We give great importance to constantly improve the treatment results of sessions. We can provide an estimate of the indicators. If your results are not consistent with reality, please let us know so we can improve our data processing.

Battery
This product uses a lithium-ion battery. Do not expose to temperatures above 50 ° C (120 ° F). The SYS tells the user if it detects a temperature above 50 ° C (120 ° F) when in function. **Risk of fire**, **explosion or burning.**
If leakage and contact with liquid leaking from the battery, clean thoroughly with water and seek medical advice immediately. For safety reasons and to extend battery life, charging can be done in an ambient temperature range.
Temperatures: Standard operation: 0 ° C (32 ° F) to +45 ° C (113 ° F) short-term storage: -20 ° C (-4 ° F) at 60 ° C (140 ° F) Storage long term -20 ° C (-4 ° F) at 25 ° C (77 ° F).
Do not check out, or do not attempt to remove the battery, which is not user replaceable. If battery problem, please contact Syride support.

Notice to users regarding collection and disposal of batteries and electrical and electronic equipment.
LITHIUM-ION BATTERY AND ELECTRONIC CIRCUIT IN THIS PRODUCT CAN NOT BE ADDED TO THE HOUSEHOLD WASTE. To allow proper recycling, please bring it to a collection point for.

Directive 2002/96/EC applies within the European Union. For the procedure applicable in countries outside the European Union, please check with local authorities
DO NOT ATTEMPT RECHARGING THE DEVICE WITH A DIFFERENT USB CORD THAN THE ONE PROVIDED. RATING: 5VDC 500mA.

GPS (Global positioning System).
The GPS is a Global Positioning System satellite that is controlled by the Government of the United States of America. Syride not responsible for the availability and accuracy of GPS

CE Mark
This product meets the requirements of the CE mark as part of a residential, commercial or light industrial.

About this document
The greatest care was taken in the preparation of this document. However, due to the commercial development of the product, some information may not be quite up to date. The information in this document is subject to change without notice. Syride not responsible for any omissions or technical or editorial errors in this manual, in the event of incidental or consequential damages resulting from the content or use of this document.

www.syride.com