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SailBrain software manual and troubleshooting

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Introduction

This document is designed to guide the reader through the process of installing the SailBrain software and COM port driver for the Microsoft Windows operating system. The SailBrain device is equipped with a dedicated port, needed to connect with a PC useful to download the index file of events and all events stored in the internal memory card.



2. How to interface SailBrain with your pc

At the time of purchase, or when updates are available, you will be given a "software package" named SailBrainInstaller.zip.

To interface SailBrain with your pc, it's necessary to unzip this file ONLY in C:SailBrain (MANDATORY) and then you'll find the following files:

- SailBrainInstaller.exe: it's necessary to run this file for the first installation of the software on your Pc and for each available upgrade;
- SailBrainAnalysisCO.exe or SailBrainAnalysisBW.exe (color or black and white software): it's the program useful for analysis data, and to enter important data in the instrument directly from the Pc;
- SailBrainDownloader.exe: it's useful to download data on Pc from the instrument and firmware updates;

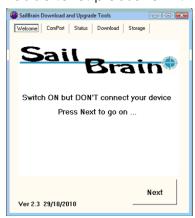
Once you have verified the presence of these files in C:SailBrain you can run, only for the first installation, the file SailBrainInstaller.exe that you must run to any available update.

3. Installation of software tools

Install and configure the SailBrain Downloader and Upgrade Tools software

Inside the software package you'll find also the SailBrainDownloader.exe: please run it.

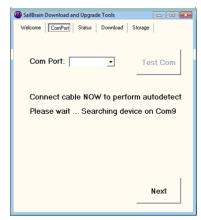
 The welcome page will start, switch on your instrument but DO NOT connect the device to the computer but click NEXT to continue.



Remove the metallic cap showed in the picture and insert the dedicated connector inside the plug.
 IMPORTANT NOTE: FIRST YOU INSERT THE CONNECTOR INSIDE THE TOOL, AFTERWARDS PUT THE USB ON YOUR COMPUTER:



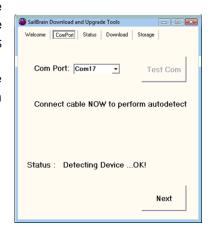
 As shown in the picture: "Connect cable now to perform autodetect. Please wait.....Searching device on Com...". Insert the USB cable in the computer and the COM port will start to be scanned to search the COM port where SailBrain is connected: wait until it is detected.



 When COM port is detected, in the same screen the status will show: Detecting Device....OK and the software shows the COM port where device is attached, as shown in the picture.

If procedure is not successful, an error message will be shown, please check physical connection both on SailBrain device and on computer side.

If the TestCom is ok, click "Next"



The status menu will appear that shows:

- Link connection with the SailBrain device (green box, the link is ok and the SailBrain device is working properly)
- CPU Type: microcontroller model
- HW: Hardware release
- Device: device release
- DATEGmt (Cpu): internal date GMT
- TIMEGmt (Cpu): internal time GMT
- Code: device ID serial number Stat: status dello strumento;
- Stat: device Status

Press Next;

Pressing Next button you will go to the menu where you can download the settings, index and all the events stored inside the instrument;

 Download History Data: press the button Download History Data and all data inside the SailBrain will be downloaded always in C:\SailBrain in a folder named with the serial number of your instrument.

<u>ATTENTION</u>: before you upgrade the tool with a new firmware, remember to download all data of your interest, otherwise it will be lost.





Press to upgrade firmware: In case of a new version of the firmware, in the drop
down menu next to the button Upgrade, the version of the firmware available for
your type of instrument (if GPS model or PLOT in black and white or color display) will
be displayed: once you have selected the desired update you just press Upgrade
button and wait until Upgrade process is finished to fill in the Status bar;

Once the update has completed, a green and highlighted note will appear "disconnect your device and close this tools" and the instrument will switch off automatically. Then disconnect the unit from the USB port, and try to turn it back on to see if, on the start screen, the selected firmware update appears.

If this does not match your interest, you can return to the previous version by repeating the same procedure and selecting the firmware of your interest.

Setup Boat /Race: In this menu you can also transfer all the settings related to the
data and the target of your boat and data related to a course (for example, a
costal race with placing of related waypoints), from SailBrain to Pc or vice versa by
pressing the respectively keys Setup Boat/Race Sailbrain → Pc or Setup Boat/Race
Pc → Sailbrain.

ATTENTION: all these data can be processed on your computer and saved on the instrument and vice versa. New data entered will overwrite the old ones on the chosen unit and automatically updated without the possibility to recall them. In fact, when you will transfer the data you will be prompted asked: "Existing settings on your Pc will be overwritten. Are you sure?". Make your choice according to your needs.

• Storage: If you previously saved data related to a race or to a training on your computer, SailBrainDownloader will allow you to proceed to the next page (Storage) shown that allows you to download all data both in standard NMEA format and in Google Kml (highlight its Save button) that will be saved in the location indicated in the string "Name ..File....". In the drop-down menu "Export info", will be also required if you want to export the data in the "Normal" or "Expert" format: the first possibility, once downloaded data into Google Earth, allows you to highlight the start, the history legs, marks and pointing the cursor over the track provides the



direction and speed of the boat; in the second case the same data are highlighted from "normal" with the addition of wind direction and wind shifts and other data useful to navigation. To save the data, click on Save and it will appear "Saving to disk" with a bar that shows the progress. At the end of saving "Save completed" will appear and you can go to recall the files you just saved in the position previously shown.

4. Log file browsing

Browse SailBrain Logs in NMEA format

If you decide to save Log files downloaded from SailBrain device in NMEA format, you will have in chosen directory Log files organized by date and time such as shown in the picture.

You can open NMEA log files with a normal text editor and browse inside it or load it with standard NMEA log reader such as shown in the picture.

Name 🔻	Size	Туре	Date Modified
🗐 Log_20101101_08.txt	1,024 KB	Text Document	11/12/2010 2:19 PM
🗐 Log_20101101_09.txt	600 KB	Text Document	11/12/2010 2:19 PM
🗐 Log_20101101_10.txt	590 KB	Text Document	11/12/2010 2:19 PM
Log_20101104_17.txt	550 KB	Text Document	11/12/2010 2:19 PM
Log_20101111_16.txt	428 KB	Text Document	11/12/2010 2:19 PM
🗐 Log_20101111_17.txt	297 KB	Text Document	11/12/2010 2:19 PM
Log_20101111_18.txt	245 KB	Text Document	11/12/2010 2:19 PM

\$GPRMC,161946.000,A,04547.5834,N,0914.5759,E,0.44,0.00,20101111,,,A*## \$GPRMC,161947.000,A,04547.5834,N,0914.5753,E,0.47,0.00,20101111,,,A*## \$GPRMC,161948.000,A,04547.5834,N,0914.5748,E,0.49,0.00,20101111,,,A*## \$GPRMC,161949.000,A,04547.5834,N,0914.5742,E,0.53,0.00,20101111,,,A*## \$GPRMC,161950.000,A,04547.5842,N,0914.5736,E,0.57,0.00,20101111,,,A*## \$GPRMC,161951.000,A,04547.5847,N,0914.5727,E,0.65,0.00,20101111,,,A*## \$GPRMC,161952.000,A,04547.5849,N,0914.5720,E,0.69,0.00,20101111,,,A*## \$GPRMC,161953.000,A,04547.5856,N,0914.5712,E,0.74,0.00,20101111,,,A*## \$GPRMC,161954.000,A,04547.5859,N,0914.5703,E,0.81,0.00,20101111,,,A*## \$GPRMC, 161955.000, A, 04547.5864, N, 0914.5692, E, 0.88, 0.00, 20101111, , , A*## \$GPRMC,161956.000,A,04547.5869,N,0914.5680,E,0.97,0.00,20101111,,,A*## \$GPRMC,161957.000,A,04547.5874,N,0914.5667,E,1.07,0.00,20101111,,,A*## \$GPRMC,161958.000,A,04547.5876,N,0914.5656,E,1.16,0.00,20101111,,,A*## \$GPRMC,161959.000,A,04547.5888,N,0914.5642,E,1.27,0.00,20101111,,,A*## \$GPRMC,162000.000,A,04547.5893,N,0914.5630,E,1.36,0.00,20101111,,,A*## \$GPRMC,162001.000,A,04547.5898,N,0914.5615,E,1.46,0.00,20101111,,,A*## \$GPRMC,162002.000,A,04547.5908,N,0914.5600,E,1.55,0.00,20101111,,,A*## \$GPRMC,162003.000,A,04547.5910,N,0914.5586,E,1.62,0.00,20101111,,,A*##

Browse SailBrain Logs in KML format

If you decide to save Log files downloaded from SailBrain device in KML format, readable from Google Earth, that you can get from URL http://earth.google.com/intl/en-uk/download-earth.html, you will have in the chosen directory Log files organized by date and time such as shown in the picture.

Here following, an example of KML file on the map, where you can analyze point-by-point, the track with details including Progressive, Time, Date, Speed and Heading of the boat:.







How to make the analysis of your race and/or training with Sailbrain Plot

It's possible to launch the analysis data software provided by SailBrain PLOT, by running the file SailBrainAnalysisCO.exe or SailBrainAnalysisBW.exe (color or black and white software) where you can analyse a just made race or training.

Who owns the instrument with black and white display, can analyse the data, for a better vision, even with the useful program for colour display and you can have a vertical or horizontal view or with single or multi screens, modifying into "View" menu on the top bar.

Data analysis made with SailBrain PLOT and its analysis software IS VERY USEFUL FOR SEVERAL REASONS, AMONG THEM ARE:

- EXTRAPOLATION OF TARGET (IF NOT AT DISPOSAL);
- AND/OR VERIFICATION OF THEM.

These types of analysis can be very useful also to verify performance with the following variables:

- different setup of the mast;
- different sails;
- different crew weights;
- to verify, on a boat where we don't know the target, if it is better to sail in a way (e.g. with a better angle in front of the wind even though with less speed, or contrary) rather than in another way;

It is clear that before analyzing a race is required to download the data into your pc using the SailBrainDownloader and according to the specified ways previously shown.

Date: 11/04/11
Time: 12:38:46
Lat: 43'37'22"N
Lon: 10'13'14"E
Spd: 5.47
Head: 006'
EvoRace4/4

T-Ang: 41'
T-Spd: 6.0
T-Vmg: 4.5
T-Vmg: 4.5
T-Vmg: 4.5
T-Vmg: 4.5
T-Vmg: 4.5
T-Mnd: 8ke
2.32
T-Ang: 468

The below view is a screenshot of what our software may indicate, as an analysis result of an entire race we prepared to explore together.

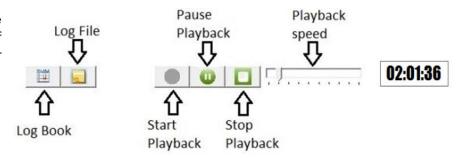
ATTENTION: ALL THE KEYBOARDS PRESENT IN ANALYSIS SOFTWARE, WORK JUST LIKE THOSE OF THE INSTRUMENT.

Recommendations before starting the analysis.

At the opening of the analysis software, the software is in demo mode by default and then you must carry out some operations:

- It is necessary to recall the number of your unit from the FILE menu by selecting it, if you don't see, it means that you have not yet installed the SailBrainInstaller.exe.
- It is necessary to select the boat to which it refers the analysis that you are performing, exactly such as indicated in the instructions for the instrument;
- It is necessary to select the race (if winward/leeward or costal race) to which it refers the analysis that you are performing, exactly such as indicated in the instructions for the instrument;

In the upper part are configured a number of useful commands for faster analysis view:



 LOG BOOK: Notwithstanding the fact that you can also recall the race through the keyboard going into Playback menu in the same way as indicated in the instructions useful for the instrument, this command considerably simplifies the recall of the race of a part of a race that you want to analyze.

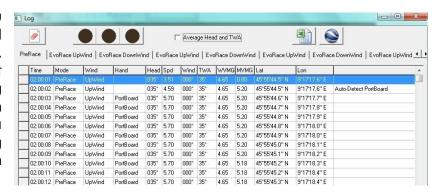
In fact opening this menu it is possible to recall in the high part of it the date of the race of our interest and, once selected, the individual sections of the race will appear. You can now select one of them and, clicking on it with the right mouse button, you can choose to start the analysis from:

- that point (Start Playback from Here);
- repeat continually the selected section by clicking on the beginning and end of the area to be analyzed and then select Set loop playback;
- delete the information of that section (Clear loop info).



<u>ATTENTION</u>: FOR A CORRECT VISUALIZATION, YOU HAVE TO MAKE START THE ANALYSIS FROM THE LAST TIME YOU ENTERED THE WIND DIRECTION (AT THE VOICE WIND SET) AND BOTH ENDS OF THE STARTING LINE.

• LOG FILE: Also this menu can also be very useful as it allows you to view, for every second, what was happening onboard, providing an endless series of data useful for those wanting a really thorough analysis.



As shown by the strings above shown, you can also see and check all data for each side of the course.

In addition the following buttons, positioned in the high part, are useful, starting from left to right, for:

- Clear the selected data;

 Chant when the product of the selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data;

 Chant when the product of the selected data is selected data.
- Start playback Pause playback Stop playback;
- Average head and TWA: If selected, allows to display the averages of the heading (head) and of the true wind angle (TWA);
- The excell file icon: allows to export all data into an Excel file that simplifies
 processing of the media of the selected data;

• **The Google Earth icon:** allows viewing in Google Earth the analysis highlighted data with the possibility, once you open Google Earth, to see also its video on the backdrop of cartography.

Other commands of the analysis software are used to:

- start analysis (START PLAYBACK);
- put it in pause (PAUSE PLAYBACK);
- stop it (STOP PLAYBACK);
- speed it up or slow it down by moving the cursor indicating PLAYBAK SPEED;
- display the time of the recording.

Taking into consideration each individual screenshot, what here shown is the recommended configuration for a quick and easy analysis of a race or training, where the 4 individual screenshots represent:

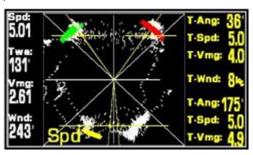
- The first screen in the top left-hand corner shows the timetable that flows with the progress of the analysis, the leg of the race which is being analyzed and the goodness of the retrieval of satellites of that time;
- The first screen in the top right-hand corner shows the data recorded, with the help of graphics, of the race that you are considering where it's possible to see (if previously set) the following information:
 - o Both by the heading, indicating the direction of the boat, and by yellow graphic of the wind direction (at the left) that was filled to the left of the vertical line of reference, it is clear that in that part of the race there was a little wind shift to the left:
- Spd: 5.47 Sat: Head: 006 EvoRace4/4

43'37'22"N

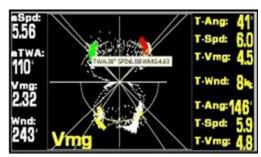
10°13'14"E

on:

- By speed averages found in the individual upwind segments, there are not big differences and then this might be a good race to take into account data to extrapolate the target with this true wind speed;
- The first screen in the low left-hand corner (named SPEED POLAR) shows all speeds detected 5 times per second during all the race (green for starboard and red for port). The yellow horizontal line, positioned on the straight line to 45 degrees from the center of the screen, represents the target speed that you set before the race (target, visible on the right side of this screen).



• The first screen in the low right-hand corner (named VMG POLAR) shows all data, related to VMG (remember that you can set it on the mark for racing or on the wind direction for training setting it in the VIEW menu), detected 5 times per second during all the race (green for starboard and red for port) and represents the true "polar" of the boat in that wind conditions. The yellow ball and half moon,



positioned on the straight line to 45 degrees from the center of the screen, represents the target speed and target angle that you set before the race (target, visible on the right side of this screen).

- o If the red and green spots are located before the yellow ball, it means that you had a speed lower than the target previously set, if contrary they are over the yellow ball it means that you had higher speeds than the target previously set and so it's necessary to change them, better after further testing in another race with similar conditions;
- o If the red and green spots are located inside the straight line to 45 degrees from the center of the screen, it means that you had a closer upwind angle than target previously set, if contrary are located outside of the straight line to 45 degrees from the center of the screen, it means that you had a larger upwind angle than target previously set and so it's necessary to change them, better after further testing in another race with similar conditions.

Furthermore, by placing the mouse pointer on the green or red spots, the averages of speed (SPD), true wind angle (TWA) and VMG realized in that section of analysis, will be automatically highlighted, and this facilitates the extrapolation or the control of the targets and of your performances.

According to this diagram, there are not particular anomalies if not a greater power to tight the wind in upwind and a greater ease for an upper true wind angle in downwind: so, it could be necessary to adjust your target.

TIP: If, as a result of an analysis, you find that you need to change your target, you can modify them directly from the analysis software and review again the race previously analyzed in order to see if the performance of the recording race or training are centered on the new target set.

<u>ATTENZIONE:</u> taking into consideration other races, very different screens may appear similar to the following ones, where:

Both by compass degrees, indicating the direction of the boat, and from yellow graphic of wind direction (left) that was filled to the left of the vertical line of reference, it is clear that in that part of the race there was a wind shift to the left:



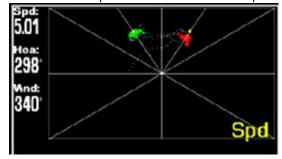
In fact, by the graphic on the right,
 relative to the VMG (which identifies in red port legs and in green starboard)

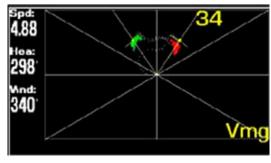
legs), you can clearly see that the best VMG, at that time, was on port because it is more frequently, sometimes over, close to the vertical reference line identifying the best VMG to approach to the mark with targets previously set;

 It is also evident, from speeds averages shown in the individual segments, that the best speeds were registered on starboard despite best VMG is on port:

WHY? MAYBE WAVE DIRECTION?

- This screen confirm what we saw in the previous view: in this segment of the race we had a speed similar to the target previously set on starboard but lower on port because red stains don't arrive at the yellow ball;
- Also from this screen appears as follows:
 - o On upwind starboard (green spots) we sailed, in that segment of the race, with speeds similar (perhaps slightly lower) to the target set even though with a slightly closer angle always in reference to the target set and through this diagram it appears that could be a better VMG;





- On upwind port (red spots) we sailed, in that segment of the race, with speeds lower to the target set and more with a larger angle, always in reference to the target;
- Of course, it assumes that the boat sailed in the same way in starboard and port, so this discrepancy must be found elsewhere: wave direction?
 Sails trimmed differently? Setup of the mast different from starboard port?

YOU HAVE TO FIND THE ANSWERS BUT SAILBRAIN HAS ALREADY PROVIDED SOME IMPORTANT INFORMATION ...

REMEMBER THE FOLLOWING:

- The screens up shown are the screens that we recommend but can be set different screens to support different needs: ANALYSIS SOFTWARE WORKS EXACTLY AS THE INSTRUMENT;
- Once you found a discrepancy between the set target and the analysis of the race, you can, in the analysis software provided to PLOT model, change the target to bring the yellow points of reference in the middle of the green and red stains that it means to be at "FULLY TARGET". To do this you should, before you change the target, copy all available target in another boat named differently and then change them according to the detected needs and re-analyze the same race to verify that everything is correct. Before you change your target, it's suggested to study more than one analysis under the same wind conditions to avoid variables such as

- direction of the wave coming from different direction in front of that of the wind, etc... which might affect the accuracy of the analysis;
- The analysis of VMG in the "Polar Vmg" screen can be set on the wind (for training) or on the mark (for race) setting this function in VIEW menu;
- Consequently, a proper analysis requires that the wind direction is correct: if not (for example in the case of very unstable conditions), you can set the desired wind direction in the same way used for the tool, and select OFF in the function "ReadWindInfo" in the "Playback" menu.
- The 2 screens POLAR SPEED and POLAR VMG are visible also on the instrument and even while sailing (by setting to "ON" in the "VIEW" menu), so SailBrain PLOT allows to see WHILE SAILING the performance of the boat during the race or, better yet, during a training;
- If you want you could even review IMMEDIATELY AND DIRECTLY ON THE INSTRUMENT
 a part of a training or of a race just made with PLAYBACK function and with screens
 POLAR SPEED and POLAR VMG set to "ON" in the "VIEW" menu. You can then verify
 the data above shown and change IMMEDIATELY, AND WITHOUT EVEN HAVING
 ARRIVED AT THE MOORINGS, your target (useful, for example, to test with different
 settings or sails).

How to approach for a correct analysis

- 1. Run SailBrainAnalysisCO.exe or SailBrainAnalysisBW.exe;
- 2. By default the analysis software opens in demo mode so you must select the serial number of the instrument from the file menu in the top left;
- 3. Select the boat to which it refers the file to be analyzed using the software keyboard just as the device and selecting SETUP → INFO → BOAT;
- 4. Similarly select the type of race you go to analyze SETUP \rightarrow INFO \rightarrow RACE being careful to avoid the race n \land 5 reserved for demo:
- 5. Select the previously recommended screen in the top left corner (pressing ESC till the view of that screen) that allows you to control the number of satellites available at the moment of the record;
- 6. Select the part of the race or training of your interest by using the Log Book command Selezionate la parte di regata o dell'allenamento che vi interessa tramite il comando Log Book being careful to start the analysis since the last time you

entered the wind direction (available under wind set) and both ends of the starting line;

- 7. If you want to display, on the screen available in the upper right corner, even the average of speed and angle of each segment (for example, between each tack) go into VIEW and position ON+ all screens available in RACE PLOT VIEW;
- 8. Click start recording and if you want to make an even more in-depth analysis, open, in the LOG FILE command, the part of race you're reviewing where will be all the data of your interest.

7. How to enter important data into the unit through data analysis software

Always running the files SailBrainAnalysisCO.exe or SailBrainAnalysisBW.exe, it will opens the screen previously shown for analysis data and in the upper left shows some menu, useful to all the needs:

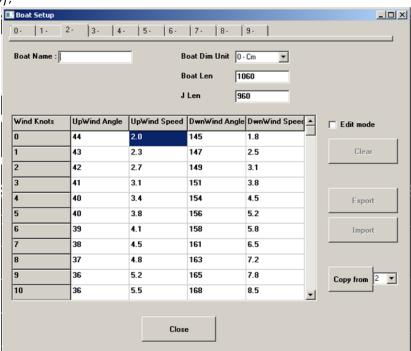
- **File:** from this menu you can recall a demo or the serial number of your device to recall a recording of a just made race or training;;
- Edit: in this menu you can enter data through its submenu:
 - o **Editor Boat target:** setting of boat dimensions and target;
 - o **Editor Race setup:** entering waypoints for a coastal race to make;
- View: you can display a single screen by clicking on "Single view", where you can
 also see the single Plot view of each screen selected in VIEW, or by clicking on "Multi
 view" and the horizontal or vertical view of the screens by clicking on "Horizontal" or
 "Vertical";
- **Help:** in this menu you can view information about the program and its own version of reference (About);



Editor boat target

Selecting this menu, on the top in edit menu, will be opened the screen shown below in which you can enter:

- 10 different types of boats by entering also the name and the reference class (string up 0-1-2-3-... and Boat Name);
- Identify the measurement unit of length of the boat (Boat Dim Unit);
- Enter the boat length;
- Enter the J length, or better, the position of the instrument from the bow of the boat (Len);
- Highlighting "Edit mode" will then enter, for those who were already in possession, all boat targets, of true wind angle and speed both upwind and downwind, from 0 to 31 knots of wind speed;



ATTENTION:

- The boat selected at number 9 is reserved as a demo;
- All these data can be processed to your computer and later saved on the instrument and contrary. New data entered will overwrite the old ones on the chosen unit and automatically updated without the possibility of recalling them.
- All target can be copied into another page using the button "Copy from" but you must turn off the function "Edit mode" before to do it;

Editor race setup

Selecting this menu, the screen shown below will open, in which you can enter:

- 5 different types of races by entering also the name and the type of race (string up 0-1-2-3-... and Race Name Race type);
- You can also enter 11 real waypoints in addition to the starting line and a possible offset mark (Offset) with the possibility of placing in hundredths or thousandths;
- It's finally possible to establish, if it is already known, the sequence of waypoints of the course chosen by the race Committee. It's possible to select, recall and/or

change this functions, once put all waypoints useful in the unit, later also on the instrument.

Once saved waypoints from pc to tool and select a coastal race on the tool, you can view the data needed for the coastal race recalling the screen of the costal race into the VIEW menu.

ATTENTION:

• The selected race at number 5 is reserved as a demo;

8. Troubleshooting

I can not install the Software on the pc and connect the instrument

At the time of purchase, or when updates are available, it is possible to download from the website www.sailbrain.it "software package" named SailBrainInstaller.zip. To do it correctly it's necesary:

 Unzip this file ONLY IN C:SAILBRAIN, so on the hard disk, and IN ANY OTHER LOCATION OF YOUR PC (such as downloads, desktop, or other locations).

Once decompressed IN C:SAILBRAIN you will find the following files:

- SailBrainInstaller.exe: file that is necessary to run for the first installation of the software on your Pc and for each available;
- SailBrainAnalysisCO.exe oppure SailBrainAnalysisBW.exe (color or black and white software): it's the program useful for analysis data, and to enter important data in the instrument directly from the Pc;
- SailBrainDownloader.exe: you need it to download data on Pc from the instrument and firmware updates.

Com Port Drivers installation

On the latest pc should not be necessary but it could happen that your pc does not have the drivers needed to connect the pc with SailBrain.

To resolve this problem, we recommend the following:

- 1. Download the appropriate driver for the characteristics of the pc (including whether 32 or 64 bit in) at the following link http://www.ftdichip.com/Drivers/VCP.htm and save it into a directory;
- 2. Connect the on instrument with the pc and without opening the SailBrain software; the pc will see the USB device indicating a driver error;
- 3. Look for the USB device with error (icon with exclamation mark) in "Device Manager" and tell it to look for the driver in the directory in which it was saved. At this point you will see a valid USB device attached to the comport, for example, n ^ 14 (COM14);
- 4. Without disconnecting SailBrain, open SailBrainDownloader.exe, press next to the first page and select the COM14 from drop-down menus without waiting for the research cycle comport is finished.
- 5. Now your pc recognizes the instrument, and you can do all the operations allowed by the software of connection with your pc.

You must perform This operation is necessary only after a first failed connection attempt, then you can connect with the usual procedure previously shown.

I can't see the race with the analysis software or do not see it correctly

Before analyzing a race you must download it from the instrument to your pc through the SailBrainDownloader.exe.

When you open the analysis software, it is by default in demo mode and then you must perform some steps:

- It is necessary to recall the unit number from the FILE menu by selecting it; If it does not appear it means that you have not yet installed the SailBrainInstaller.exe;
- It is necessary to select the boat to which it refers the file to be analyzed exactly as
 indicated in the instructions that apply to the tool and using the 4 cross keys of the
 analysis software;
- It is necessary select the type of race you go to analyze exactly as indicated in the instructions that apply to the tool and using the 4 cross keys of the analysis software;
- ATTENTION: FOR A CORRECT VISUALIZATION, YOU HAVE TO MAKE START THE ANALYSIS
 FROM THE LAST TIME YOU ENTERED THE WIND DIRECTION (AT THE VOICE WIND SET)
 AND BOTH ENDS OF THE STARTING LINE. ATTENZIONE.

Once connected the instrument to the pc, SailBrainDownloader.exe don't find the com port connection between the pc and the instrument

• Especially if this is the first connection, wait until the 3 or 4 make scanning complete cycles to detect comport if it is not detected, it means that you could have all the

occupied com ports on your pc.com port connection between the pc and the instrument is not found, you must do the following:

Especially if this is the first connection, wait until 3 or 4
make scanning complete cycles to detect com port
are made and if it is not detected, it means that you
could have all the com ports busy on your pc.

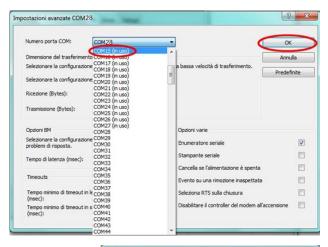
To unlock a com port

Perform the following steps:

- Open the "Control Panel" of the pc;
- Select "Device Manager";
- Select Ports (Com and LPT);
- The following screen will appear, and if in the item "USB Serial Port (COM x) appears a comport number greater than 25, mark it, click with the right mouse button and click on" Properties";

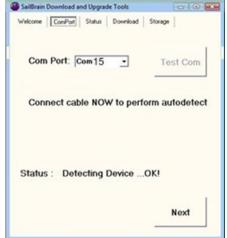


- Under "Port Settings" click on "Advanced";
- A menu will appear where the first item is "Com Port Number" with a dropdown menu;
- In the drop-down menu select a Com port number less than 15 also if it shows "in use";
- Save this setting by clicking OK.



 At this point the SailBrainDownloader.exe will detect the COM port with the previously set number and in the same screen will show: "Status: Detecting Device OK".

If the procedure fails, an error message will be shown: in this case, check the physical connection both on the SailBrain device that on your computer and repeat the connection procedure from the beginning.



Windows XP cannot find drivers for my device

In this case, verify that the installation steps shown in the previous points have been carried out correctly.

Windows xp forces a reboot after installing a device

This problem can happen if an application is accessing a file while the New Hardware Wizard is trying to copy it. This usually happens with the FTD2XX.DLL file. Selecting not to restart the computer then unplugging and re-plugging the device may allow the device to work properly without restarting. Restarting the pc will allow the device to work correctly.

Driver installation fails and windows xp gives error code 10

Windows error code 10 shows an hardware error or failed driver installation. This error may appear if a device has insufficient power to operate correctly (e.g. plugged into a bus powered hub with other devices), or may indicate a more serious hardware problem. Also, it may be indicative of USB root hub drivers being uncorrectly installed.

Please refer to the example schematics on the FTDI web site for standard device configurations. If the error persists, please contact the FTDI support department.

Windows xp displays an error and then terminates installation

If the following screen is displayed with this message, Windows XP has been configured to block the installation of any drivers that are not WHQL certified.

Two options are available to successfully install the device. Either a certified version of the driver can be installed (if available) or the driver signing options can be changed to either warn or ignore to allow the installation to complete. To change the current driver signing setting, go to "Control Panel\System", click on the "Hardware" tab and then click "Driver Signing". The desired signing option may then be selected.



Note about this tool:

The producer claims the right to make changing at any time with no obligation to previously inform other counterparts.

9. CONTACT

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