

FLYBOX®



LIFT
(Omnia57-80 family)

**Installation and User Manual, Safety
Instructions and Warning Booklet**

**This product is not TSO'd and cannot be installed into
traditional FAA Part 23 and similarly Type-Certificate Aircraft**

Document A2021-LIFT
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For firmware version 1.0

This booklet is suitable for printing in A5 format.

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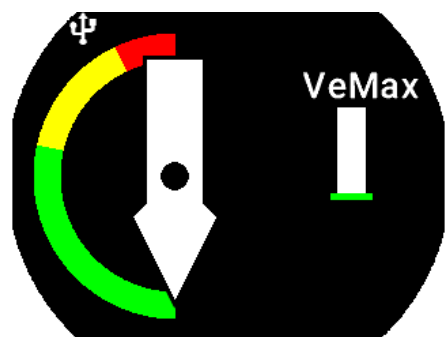
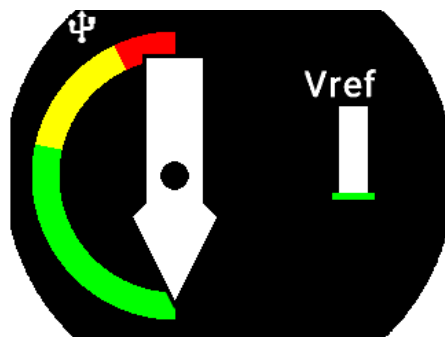
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Examples of available screens



Screen 3: A black screen with a Greek letter ψ at the top left. The text "PRESS FOR ALARM TEST" is displayed in white capital letters in the center.

Thank you for purchasing a Flybox® **Omnia** instrument.

Omnia instruments are available in 2 different formats, both with the same functionality:

Omnia57 (2-1/8") and **Omnia80** (3-1/8").

This manual describes both formats.

Our intent in developing the **Omnia** instrument family was to create a light and compact product, powerful and easy to install and use.

The **Omnia** instrument family is equipped with a state-of-the-art highly visible display, a powerful 32 bit microcontroller and the latest generation of solid state sensors to ensure reliability and accuracy over time.

The owner has the possibility to keep the instrument software up-to-date by downloading the latest available revision from the www.flyboxavionics.it website and installing it using a USB pen drive.

We are confident our products will be satisfactory and will make your flying experience a pleasant one.

Symbols used in the Installation and User Manual, Safety Instructions and Warning Booklet



NOTE: Used to highlight important information.



CAUTION: Used to warn the user, it indicates a potentially hazardous situation or improper use of the product.



WARNING: Used to indicate a dangerous situation that can cause personal injury or death if the instruction is disregarded.



WARNING: These instructions must be provided to users before use, and retained for ready reference by the user. The user must read, understand (or have explained) and heed all instructions and warnings supplied with this product and with those products intended for use in association with it. Always keep a copy of the Installation and User Manual, Safety Instructions and Warning Booklet on the aircraft. In case of change of ownership, the Installation and User Manual, Safety Instructions and Warning Booklet must be delivered together with all of the other papers.



WARNING: Read the Installation and User Manual, Safety Instructions and Warning Booklet before installing the device on your aircraft and follow the procedure described therein.



WARNING: This device is intended to be installed on NON-TYPE CERTIFIED AIRCRAFT ONLY, as it does NOT require any air operator's certificate. Refer to your national aviation authorities to check if this device can be installed on your aircraft.



WARNING: It is the owner's responsibility to test this device before operating the aircraft and to make sure nobody is using it unless properly instructed and authorized to do so.



WARNING: Once the installation process is completed, it is extremely important to test the device before taking off to make sure it works properly. Therefore, we strongly suggest to double check all of the electronic instruments available on the aircraft and to turn them on to verify they function correctly.



WARNING: This device is operated through a software which from time to time can be updated and/or subject to change. Please, always refer to the Installation and User Manual, Safety Instructions and Warning Booklet for the last updated version of the software available at www.flyboxavionics.it



WARNING: It is the responsibility of the installer to properly install the device on the aircraft. In case of calibration, or any technical or functional customization of the device, the responsibility lies with the individual who carried out such operation.

FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY
OR DEATH.



WARNING: If this product is not used correctly, or it is subjected to additions or alterations, the effectiveness of this device may be considerably reduced.



WARNING: Alterations, additions, or repairs not performed by the instrument manufacturer or by a person or organization authorized by the manufacturer shall negate any warranty.



WARNING: Do NOT rely on the Omnia ASI-OAT device ONLY to determine the Air Speed of the aircraft.



WARNING: The unit isn't waterproof. Serious damage could occur if the unit is exposed to water or spray jets.



NOTE: The consumer decides of his own free will if the purchased product is suitable and safe for his need. If the consumer does not agree with the notices contained in this Installation and user Manual, Safety Instructions and Warning Booklet, do not install this instrument in his aircraft.



NOTE: Flybox Avionics reserves the right to change or improve its products as well as terms, conditions, and notices under which their products are offered without prior notice.



NOTE: The Installation and User Manual, Safety Instructions and Warning Booklet will be updated annually if needed.

All changes or updates will be published on our website www.flyboxavionics.com in the "support" section.



NOTE: Check the website www.flyboxavionics.it periodically for software and manual updates.

For some products, registration may be required to receive important news or information on available firmware updates or to receive security information.

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OMNIA FAMILY SYSTEM OVERVIEW

The **Omnia57-80** instrument family has many innovative features, common to all models as described below.

1.1 CONSTRUCTION FEATURES

Omnia instrument family is built from solid aluminum alloy, CNC milled and powder coated to last a long time over the years always showing a new appearance.

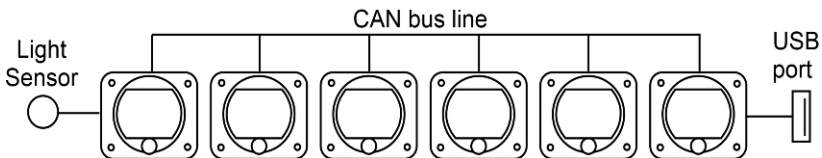
1.2 ERGONOMICS

- Large 2.4 inch (57), 3.5 inch (80), TFT display, 320x240 Pixels, 1000 nits, antiglare surface, sunlight readable, wide temperature range.
- A high quality knob encoder with push button for easy access to all features.
- Backlight auto dimming feature with one optional sensor for all the Omnia installed in the panel.

1.3 INTERCONNECTION ABILITY

All the instruments of the **Omnia** family can be connected together via CAN1 to form a communication network, making some data exchange operations simpler.

The software update of a **Omnia** instrument connected in group takes place through the CAN1 bus communication with the instrument that has the USB pen drive connected. This means that the USB connection is made to a single instrument, and the information will be forwarded via CAN bus to or from all the others in the group. **Omnia57** and **Omnia80** instruments can be mixed on the same CAN1 bus.



Up to 16 Omnia can be connected together through the CAN 1 bus.

The configuration data and the data logger of the interconnected instruments are saved or restored via CAN1 bus on the same USB pen drive. A single brightness sensor can provide information to all the connected instruments to automatically adjust the backlight intensity.

1.4 EASY SOFTWARE UPDATE

The user can download any new firmware, when available, from Flybox website, connect a USB pen drive to the instrument and freely update it with the last features.

With one USB connection only, it will be possible to update every instrument installed in the panel. If more **Omnia** are installed and properly connected, they will search for the right firmware through the CAN1 bus.

1.5 EASY DATALOG SAVING

Easy logging of the data for debug purpose.

If needed, each **Omnia** unit can save a last flight log on the USB pen drive. The user can then send the log via e-mail to Flybox support for a help/support request.

The aim is not to equip the instrument with a datalogger but to have a tool to help troubleshoot problems should they occur.



NOTE: for easy access to the USB port, it is recommended to install a USB extension cable in one of the **Omnia** instruments and store the free connection in an easily accessible part of the dashboard. It is not recommended to use extension cords longer than 50 CM.

1.6 INTERFACES

All the **Omnia** instruments have the following common interfaces:

2 separate CAN BUS: CAN1 bus is used to connect the **Omnia** instruments together, CAN2 bus is used to interface them with other Flybox instruments or with external devices like Engines ECUs or new devices to be developed in the future.

2 RS232 serial ports: used to connect the **Omnia** instruments to an external GPS (when applicable). This feature appears in some models only.

1 Sensor Light Input: if connected, it allows the automatic backlight intensity adjustment, one sensor for all the instruments connected in the same CAN bus.

2 Power outputs for sensors: one 12 V 500mA@60°C and the other 5 V 350 mA@60°C, both protected from short circuit.

If the current on one of the outputs is too high, a caution message will appear.

Caution!
High current PIN 2

1 Alarm output: all the **Omnia** instruments can activate an external warning device like a lamp or a small relay through this NPN transistor output.

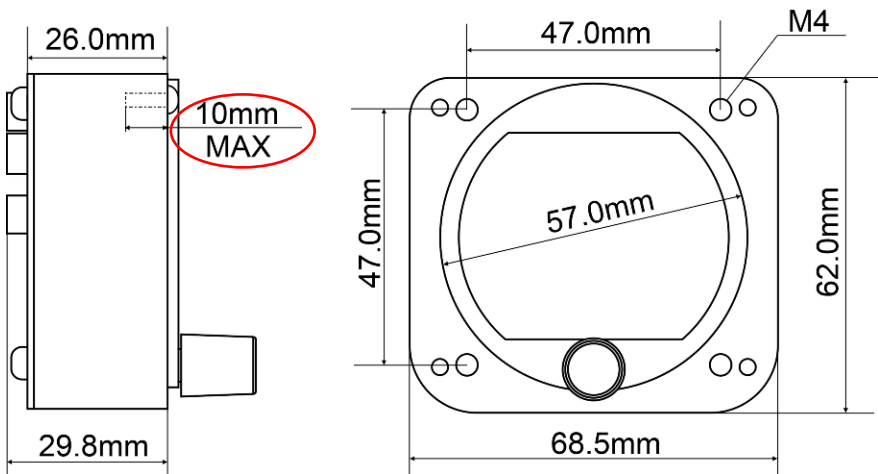
MECHANICAL INSTALLATION

It's recommended to choose a position that permits optimal display visibility. The instrument is supplied with four M4 screws to install it to the panel, if you use other screws consider that the maximum thread length inside the instrument body is 10mm (see the picture below).

Damage to the instrument due to the use of a screw longer than the permitted length will not be repaired under warranty.

2.1 OMNIA57 MECHANICAL DIMENSIONS

The **Omnia57** instrument fits in a standard 2 ¼" (57 mm) panel cutout.



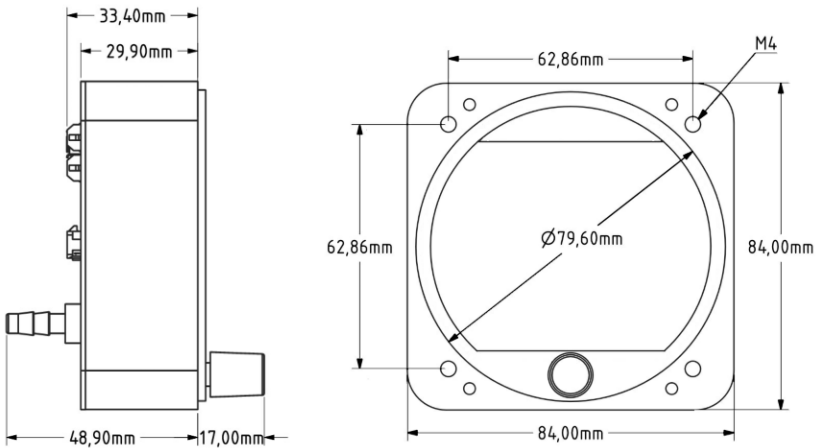
CAUTION: The maximum screw length inside the instrument body is 10mm.



NOTE: For an installation without interference, consider making a hole of at least 57.5 mm diameter.

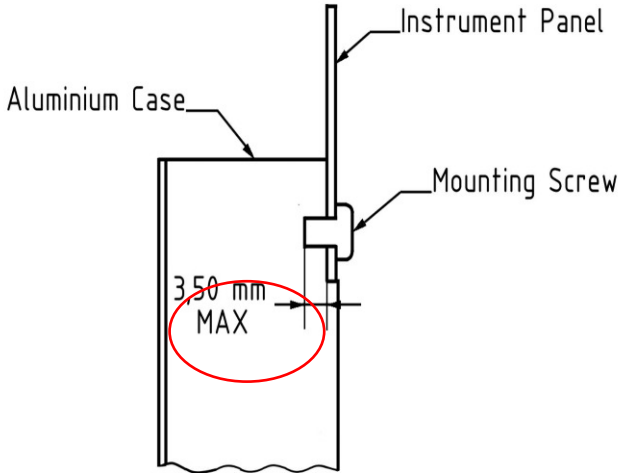
2.2 OMNIA80 MECHANICAL DIMENSIONS

The **Omnia80** instrument fits in a standard 3 1/8" (80 mm) panel cutout.



NOTE: For an installation without interference, consider making a hole of at least 80.5 mm diameter.

2.3 OMNIA80 Max screw length



The screws supplied (M4x6mm), are suitable for panel thicknesses between 1.5 mm and 2 mm.

Flat nylon washers are also supplied with the screws for use with very thin panels.

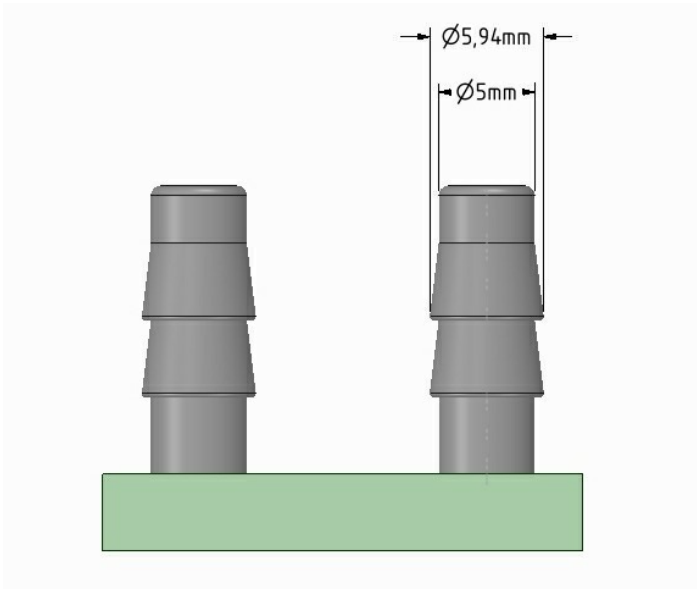


CAUTION: The maximum screw length inside the instrument body is 3.5mm.

Using screws that are too long will damage the display and cannot be repaired under warranty.

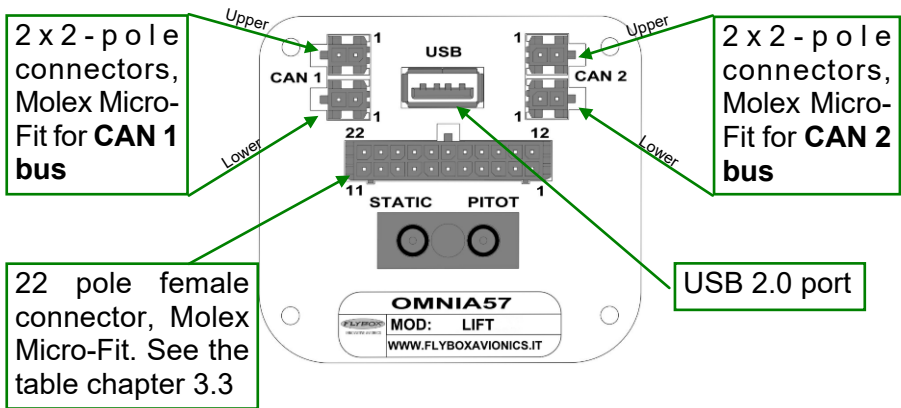
2.4 STATIC and PITOT PIPING CONNECTION

On the back of the instrument there are 2 6mm brass fittings that must be connected and tightened to the Static and Pitot lines of the aircraft by rubber tube. Tighten the tubes with a proper clamp.



ELECTRICAL INSTALLATION

3.1 REAR PANEL CONNECTIONS



The required connectors and terminals are supplied with the instrument.

The manufacturer's codes are:

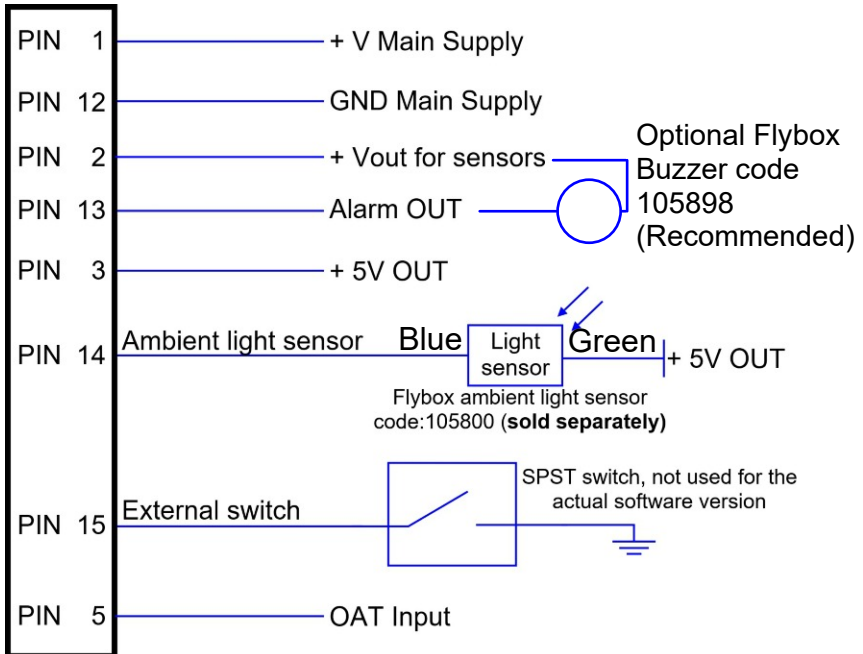
- Molex P/N 43025-0200 (2 pole housing)
- Molex P/N 43025-2200 (22 pole housing)
- Molex P/N 43030-0007 (female crimp terminal)

The terminals can be crimped with:

- Flybox Professional Crimping Tool cod. 603000
- Molex tool P/N 63819-0000

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3.2 - (22 POLE) FEMALE CONNECTOR WIRING



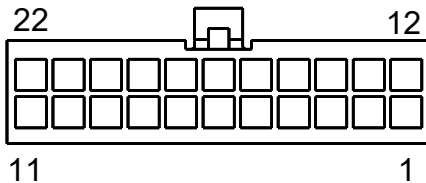
It is strongly recommended to use the dedicated buzzer, Flybox code 105898. Using an external buzzer ensures that the alarm signal is never filtered out by intercom or radio settings as it is completely isolated from them.



WARNING: Voltage peaks on the supply line exceeding the operating limits can damage the device.

3.3 - (22 POLE) CONNECTOR TABLE

PIN	I/O	Signal
1	I	+V Main supply, 10-30Vdc, with a proper breaker, see note1
2	O	Vout for sensors, it delivers the same voltage supplied on the Pin 1, short circuit protected and limited to 500mA
3	O	5V out for sensor, short circuit protected and limited to 350mA
12	I	GND main supply
13	O	Alarm Out, NPN 300 mA (not protected)
14	I	Ambient light sensor input
15	I	External switch





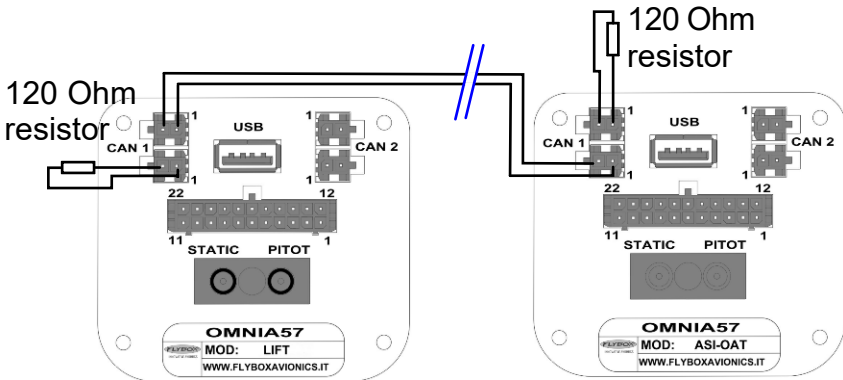
Molex P/N 43025-2200 (22 pole housing). View from wire insertion side.

Note1

Since the current consumption is 60mA, consider a breaker of 1A or less.

3.4 CAN BUS CONNECTION WIRING

Pin 2  Molex P/N 43025-0200 (2 pole housing). View from wire insertion side
 Pin 1 



CAN bus Wiring Information

The basic electrical architecture of a CAN bus consists of a single twisted or shielded wire pair with a device connected at each end. Each end must be terminated with a 120 ohm resistor, Flybox code 105810. Up to 16 Omnia can be connected together through CAN 1 bus.

Ready-made termination resistors and wiring for connecting several Omnia together are available in different lengths: 25cm, 50cm, 100cm.

See the website www.flyboxavionics.it for details and how to order.

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 Safety Instructions and Warning Booklet

3.5 - (2 POLE) CAN BUS CONNECTOR TABLES

2 Pole **CAN 1** Upper Connector

PIN	I/O	Signal
1	I/O	CAN 1 H Internally connected with the Pin 1-CAN 1 H (Lower connector)
2	I/O	CAN 1 L Internally connected with the Pin 2-CAN 1 L (Lower connector)

2 Pole **CAN 1** Lower Connector

PIN	I/O	Signal
1	I/O	CAN 1 H Internally connected with the Pin 1-CAN 1 H (Upper connector)
2	I/O	CAN 1 L Internally connected with the Pin 2-CAN 1 L (Upper connector)

2 Pole **CAN 2** Upper Connector

PIN	I/O	Signal
1	I/O	CAN 2 L Internally connected with the Pin 1 CAN 2 L (Lower connector)
2	I/O	CAN 2 H Internally connected with the Pin 2 CAN 2 H (Lower connector)

2 Pole **CAN 2** Lower Connector

PIN	I/O	Signal
1	I/O	CAN 2 L Internally connected with the Pin 1 CAN 2 L (Upper connector)
2	I/O	CAN 2 H Internally connected with the Pin 2 CAN 2 H (Upper connector)

INSTRUMENT SETTINGS

4.1 MINIMUM SETTINGS BEFORE FIRST USE



CAUTION: Before using the *Omnia LIFT* in flight for the first time, you must set at least the following parameters (as explained in the instructions on the following pages):

1. Set the ASI unit of measure.
2. Set the Stall Speed.
3. Set the Vref speed.
4. Set the VeMax speed.
5. Set the Alarm parameters.
6. Perform the Flight Check.
7. Check the audio output with Tone test function.



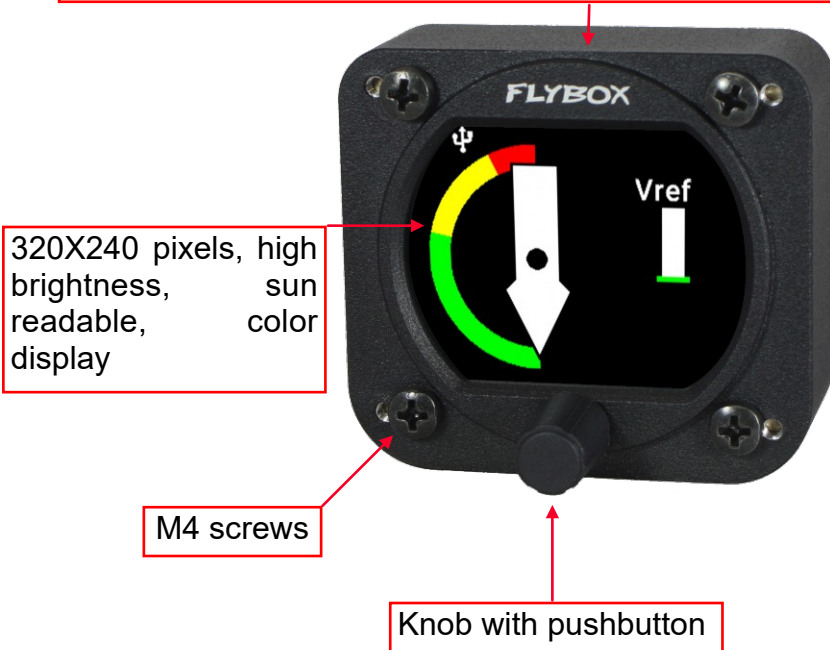
NOTE: it is important to carry out these operations in the sequence indicated.



WARNING: In the absence of the above operations, or if they are not performed correctly, you can not consider as reliable the indications of the instrument.

4.2 PANEL INDICATORS & COMMANDS

57mm (2-1/4") or 80mm (3-1/8") aluminium enclosure



The knob can be rotated to select the functions and increment or decrement the values while pressing it to confirm.

4.3 SETUP MENU NAVIGATION

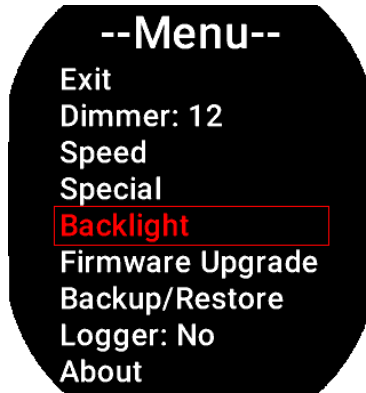
Navigation through the menus is very simple and fast using the knob:

- Press the knob for 1 second to enter in the Setup Menu. The menu automatically disappears if you don't press or rotate the knob for 5 seconds.
- Rotate the knob to navigate through menus and submenus items.
- The setup system is organized in menus and submenus; a submenu is a term used to describe a menu that is contained within another menu.
- Press the knob to enter in the selected item.
- The knob can be rotated to select the functions and increment or decrement the values while pressing it to confirm. To exit without changing while editing a number or multiple choice, keep pressed the knob for 3 seconds.
- The first items on every menu are Exit or Back. "Exit" is used to quit the Setup and go directly to the main screen, "Back" is used to go back to the previous level.



NOTE: edited data are saved when returning to the main screen. If you turn off the instrument while inside a menu, your changes will be lost.

4.4 MAIN SETUP MENU



Exit: confirm to “exit” from the setup menu and go back to the main screen.

Dimmer: adjust display brightness from 1 (min brightness) to 19 (max brightness). Default value=19. The adjustment works in Manual mode only.

Speed: select to set Speed Submenu parameters. Go to chapter **4.4.1** for a full description.

Special: select to set miscellaneous parameters in the Special Submenu. Go to chapter **4.4.2** for a full description.

Backlight: set the backlight in “Manual” or “Automatic” mode. Go to chapter **4.5** for a full description.

Firmware Upgrade: enter to upgrade the firmware. Go to chapter **5.1** for a full description.

Backup/Restore: enter to save and load settings. Go to chapter **5.2** for a full description.

Logger: enable to save a flight session data. Go to chapter **5.7** for a full description.

About: enter to see instrument information.



About Page Example

4.4.1 Speed Submenu



Back: confirm to go back to previous menu.

Exit: confirm to go directly to the main screen.

Unit: set the unit of measure of Indicated Air Speed in kilometers per hour (km/h), Knots (kt) or Miles per hour (Mph).

Stall speed: enter here the Stall speed with retracted flaps.

It is also possible to check the speed detected by the instrument at the time of stalling with the Speed check function, see page 24. This check is not mandatory. If you enter the correct stall speed in the Stall Speed parameter the check can be avoided, however a check can highlight what the instrument reads during the stall to make sure that you have set the correct value and that the internal Air speed indicator is working correctly.

VeMax: Set here the maximum efficiency speed or Best Glide Speed of the aircraft.

The green bar to the right of the screen represents the correct speed to hold.

A white bar may appear below or above the green bar depending on whether the IAS at that time is higher or lower than the set VeMax.

This indication helps the pilot to maintain the correct speed during an emergency landing with the engine off. See at page 37 for more.

Vref: Set here the characteristic approach speed to be held in the final leg for landing.

The green bar to the right of the screen represents the correct speed to hold.

A white bar may appear below or above the green bar depending on whether the IAS at that time is higher or lower than the set Vref.

This indication helps the pilot to maintain the correct approach speed during the final landing leg. See at page 36 for more.

Filter: increase the number if the reading is affected by noise on the input signal, decrease the value if the reading is delayed related to the input signal.

Default = 1, Min = 1 (faster), Max = 100 (slower)

Offset: the ASI sensor is calibrated at the factory at the time of manufacturing. Over the years it may be necessary to do the offset recalibration that can be done by the user in a simple way.

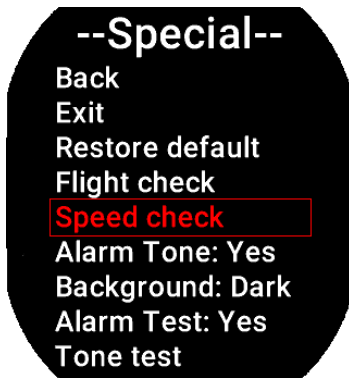
If you notice that with the airplane ground stationary, the ASI marks an even small speed, it may be necessary to calibrate the offset.

To do the calibration, confirm the “Offset” function; a message indicating you are modifying the offset will appear, confirm “YES”. The new Offset is now set.



4.4.2 Special Submenu

Special: enter to set miscellaneous setting as following.



Back: confirm to go back to previous menu.

Exit: confirm to go directly to the main screen.

Restore Defaults: enter to restore defaults. **Caution,** the restore default operation returns the instrument to the factory settings. **It will require double confirmation.**

Flight check: The instrument must store the aircraft's attitude when it is in level flight.

This can be done in 2 ways:

- 1) on the ground, by lowering or raising the tail with a tripod to position the aircraft in flight attitude and then perform the acquisition by activating the Flight Check function.
- 2) in flight, on a calm day with no turbulence, level wings and cruising speed, activating the Flight Check function.

In both cases the instrument will show when the acquisition is complete. Among the 2, the N. 1 mode, the one on the ground, is certainly the preferred method.

Speed check: This operation is to verify if Omnia LIFT measures the speed correctly and what is the exact speed measured at the moment of stall.

To perform the test, follow this procedure:

The operation, to be carried out in flight, consists of activating the Speed check page and performing a stall (with the wings leveled) with subsequent speed recovery. The instrument will show you in real time the speed detected during the flight and during the stall manoeuvre. Pay attention to the speed that is displayed at the exact moment the stall occurs, this will be the speed to be reported in the Stall speed parameter.

You can repeat the check as many times as you like.

The Speed Check function is only an information on the display, it does NOT store any values and does not modify the Stall Speed parameter; if necessary this will have to be done manually. This check is not mandatory. If you enter the correct stall speed in the Stall Speed parameter the check can be avoided, however the Speed check can highlight any problems with the Omnia LIFT instrument speed readings.

Alarm Tone: choose “NO” only if the alarm output will be connected to the optional Flybox Buzzer code 105898 or to an external lamp.

Selecting NO the alarm output will become a digital output via a NPN transistor.

Selecting Yes, the alarm output will generate a high-pitched tone instead of a continuous signal. This tone can be sent to the optional Flybox Audio Tone Adapter code 105899. **However, it is strongly recommended to use a dedicated buzzer, Flybox code 105898.**

Using an external buzzer ensures that the alarm signal is never filtered out by intercom or radio settings as it is completely isolated from them.

Background: select which background you prefer between “faded” and “dark”.

Alarm test: choose "Yes" to enable the audio test function at power-on or choose “No” to disable it. If the test is enabled, the message "PRESS FOR ALARM TEST" will be shown on the display every time the instrument is switched ON; pressing the knob, 3 alarm tones will be generated in sequence and the instrument will show the normal screen.

Tone test: press to generate 3 alarm tones in sequence.

4.5 Backlight Submenu



Back: go back to previous menu.

Exit: confirm to go directly to the main screen.

Mode: select to choose between “Manual” and “Auto”. When in “Manual” mode, the brightness can be changed with the dimmer function from the main menu, from 1 (min brightness) to 19 (max brightness). Default value=19.

Selecting “Auto”, 3 new parameters will appear in the list



Source: choose "Sens" to read the brightness from the optional sensor connected to the instrument itself or "CAN" to read the ambient brightness from the CAN1 bus if the brightness sensor is connected to another **Omnia** instrument connected in cluster.

In the case of 2 or more instruments connected in cluster via CAN1 bus, set "Sens" only on the instrument to which the sensor is connected and set "CAN" in all others.

Smoothness: choose how fast the backlight changes when there is a variation of light on the sensor.

Default= 1

Min= 1 (faster)

Max= 3 (slower)



NOTE: If the mode function is set to AUTO, during a software update and when performing a backup/restore, the light automatically switches to MANUAL mode during that operation.

Min light(%): choose minimal backlighting when the environment is dark.

Default= 1

Min= 1 (dark)

Max= 20 (bright)

OPERATING INSTRUCTIONS

5.1 FIRMWARE UPGRADE

The software can be easily updated with new versions, when available. It is advisable to regularly check for new versions on www.flyboxavionics.it > support > software page.

Download the new version and after unpacking it, copy it to a USB stick, possibly free from other files.

To update the instrument it is necessary to connect the USB stick to the instrument you want to update or to any other instrument of the Omnia series installed and clustered via the CAN bus, following the procedure below:

- connect the usb stick to the instrument
- From the main menu of the instrument you want to upgrade select “Firmware Upgrade”.

If the USB stick is not yet plugged-in, a message advising you to insert it will appear:



If already plugged-in, a message indicating the file and the version will appear:



Select and confirm the software you want to write, the following screen will appear:



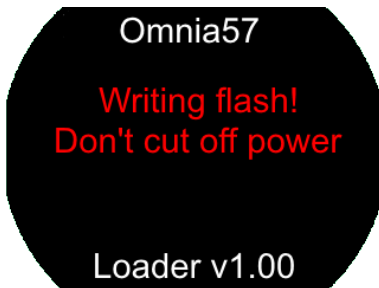
In case you are installing a version prior to the installed one, a different message will inform that you are **downgrading** and not upgrading the software. Confirm “Yes” to proceed, “No” to exit without writing any software.

(DEV. NAME) is the name of the instrument being update.

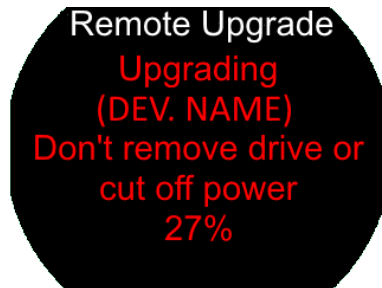
Wait until this message will appear and then remove the USB stick. The instrument will reboot with the new software.



Note: if the USB stick is installed on a device other than the one you are updating, the following messages will appear on the 2 devices:



Device is being
Update



Remote device
where the USB is
connected

5.2 Backup / Restore

All set parameters and calibrations made in the instrument can be saved in a backup file. This can be useful if you need to restore all the parameters in a new instrument, for example in case of replacement, or if you need help from the instrument manufacturer. In this case, simply send the backup file saved on the USB stick to the Flybox support service. To backup or restore the parameters it is necessary to connect a USB stick to the instrument you want to backup/restore or to any other instrument of the Omnia series installed and clustered via the CAN bus.

From the main menu of the instrument you want to backup or restore the parameters, choose “Backup/Restore”. If the USB stick is not plugged-in yet, a message advising you to insert it will appear



Select “Backup” and push the knob to write the file on the USB stick. When the file is written, this message will appear:



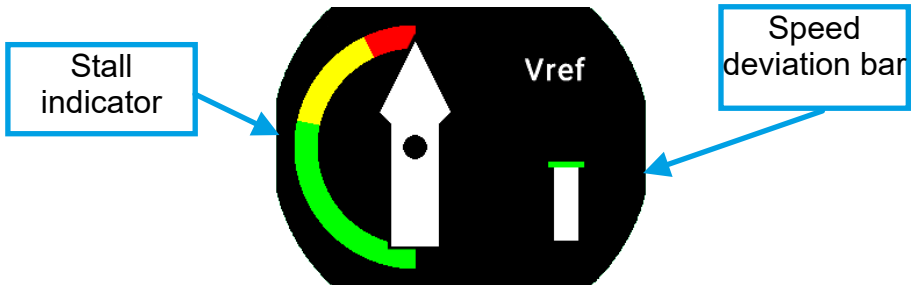
Select “Restore” and push the knob to load the previously saved parameters into the instrument.



Push the knob to reboot, the new parameters are now loaded in the instrument.

5.3 USE OF THE INSTRUMENT

When switched-ON and the Audio test (if enabled), is done, the display will immediately show the main screen.

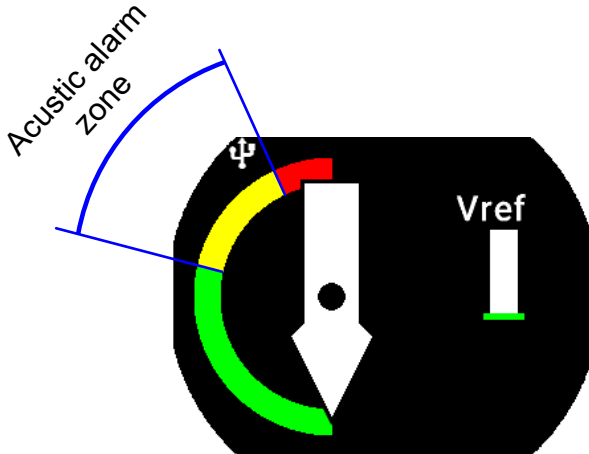


The figure represents the indicator when the aircraft is stationary on the ground. The stall indicator arrow is at the end of the red arc because the lift is at zero, while on the right of the screen, the speed deviation bar of the Vref is shown.

As the Vref is much lower than the set value, it is all extended downwards.

Turn the knob to the right to switch to displaying VeMax instead of Vref and turn it to the left to return to Vref.

5.4 Stall indicator



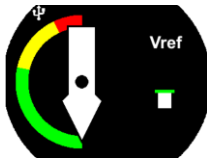
While cruising or at a speed significantly higher than the stall speed, the indication will be as in the figure. As the stall speed approaches, the white arrow will begin to move towards the yellow section of the arc, upon reaching it, the alarm output will begin to emit tones that will become closer and closer as the arrow moves towards the red arc. As soon as the arrow touches the red, the tone becomes a continuous sound.

In addition to speed, the algorithm takes into account acceleration and bank angle, so it is possible to have early warning conditions (yellow arc) at speeds higher than stall speed in the presence of acceleration or bank angle.

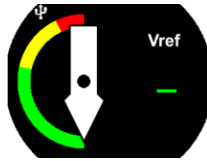
5.5 Vref Speed Deviation Bar

The indicator on the right of the screen shows in graphic form the deviation of the current speed from the speed entered in the **Vref** field.

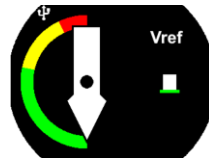
When the current speed is exactly equal to the Vref, the white bar disappears completely, while it extends downwards if the current speed is lower and upwards if the current speed is higher.



Vref speed is too low.



Vref speed is correct.



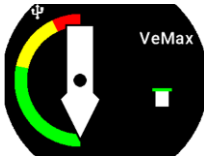
Vref speed is too high.

To get support from the instrument in holding the correct speed when landing, turn the knob to the left to bring up the **Vref** if it is not already shown on the display.

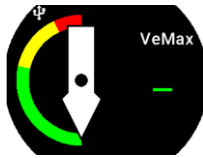
5.6 VeMax Speed Deviation Bar

The indicator on the right of the screen shows in graphic form the deviation of the current speed from the speed entered in the **VeMax** field.

When the current speed is exactly equal to the **VeMax**, the white bar disappears completely, while it extends downwards if the current speed is lower and upwards if the current speed is higher.



VeMax speed is too low.



VeMax speed is correct.



VeMax speed is too high.

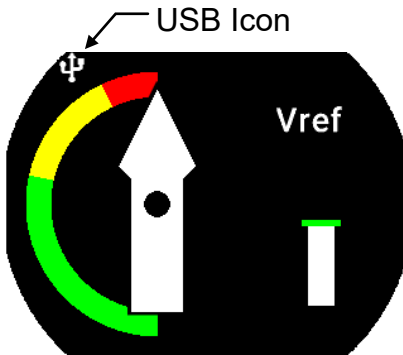
To get support from the instrument in holding the correct Best Glide Speed, turn the knob to the right to bring up the **VeMax** if it is not already shown on the display.

5.7 Logger

The Logger can be useful for storing flight data on the USB stick, for example to ask for assistance in case of problems.

The data will be stored at 1 second samples and written on a file with some information of the instrument that generated them.

When the USB flash drive is plugged-in to the device to be logged or to any other instrument of the Omnia series installed and clustered via the CAN1 bus, a white icon will appear on the display indicating that the flash drive is connected.



To activate the Logger choose “Yes” from the Main Menu>Logger. The icon will turn **green** when the file is being written and **red** when the Logger is enabled but the USB stick is not connected or in case of writing problems.



NOTE: If several instruments are connected on the same CAN1 bus, the Logger can only be activated on one instrument at a time. The Logger function will automatically switch off each time the instrument is switched off.

TECHNICAL SPECIFICATIONS

- Graphic TFT LCD with backlight and coated glass, dimensions 29x18mm.
- Standard mounting 2-1/4" 57mm and 3-1/8" 80mm.
- Powder painted aluminium case.
- Dimensions: 68x62x35mm (57), 85x85x40mm (80).
- Weight: 140g. (57), 230g. (80)
- Supply voltage: 10 ~ 30 V=.
- Supply current: 60mA (57), 135mA (80)
- ASI input range: 0-500 km/h
- Open-collector alarm output (max 300mA, active low). This output can also be used to send a tone in the intercom, using the Flybox optional device code 105899.
- Operating temperature range: -20 ~ +70°C.
- Humidity: 90% max (without condensation).
- Communication through 2 CAN bus.
- USB port: for USB 2.0

CLEANING

The screen is very sensitive to some cleaning materials and should be cleaned with a clean, damp cloth only.

One Year Warranty:

Product support and warranty information can be found at www.flyboxavionics.it.

Flybox® warrants this Product to be free from defects in materials and workmanship for 12 months from date of delivery. The inactivity of the Products determined by periods of repair does not involve the extension of the warranty period.

This warranty covers only defects in material and workmanship found in the products under normal use and service when the product has been properly installed and maintained. This warranty does not cover failures due to abuse, misuse, accident, improper maintenance, failures to follow improper instructions or due to unauthorized alterations or repairs or use with equipments with which the Products is not intended to be used. Flybox®, after verification of the complaint and confirmation that the defect is covered by warranty, at its sole discretion, will either replace or repair the Products at no costs for the customer. Alterations, additions, or repairs not performed by the manufacturer shall negate any warranty. This warranty doesn't cover cosmetic or incidental damages. Shipping costs, taxes, custom fee, any other duties and any costs incurred while removing, reinstalling or troubleshooting the Products, shall be at customer's charge.

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Out of warranty repairs

Products that can not be repaired under warranty as out of the maximum term or that do not work for reasons that would have been covered by warranty, can be repaired at a flat rate as described on the site. For out-of-warranty eligible damages, the repair must be assessed for each individual case.

Omnia57-80 LIFT Installation and User Manual,
Safety Instructions and Warning Booklet

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Date	Revision	Description
02/2019	1.0	First release

IMPORTANT

Do not send an instrument for repair without first filling out the support form which can be reached by clicking one of the buttons above. After filling out the form, a ticket will be opened and if we believe the instrument needs to be repaired, an RMA number will be sent to you with shipping instructions. Instruments received without an RMA code will be placed at the bottom of the repair queue.

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