

# Use and maintenance owner's manual



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# Section 1

## DECLARATION OF CONFORMITY

The product described in this documentation is accompanied by a declaration of conformity, written in compliance with the current European Regulations.



### NOTE

BEFORE USING THE DEVICE, ENSURE THAT IT INCLUDES THE DECLARATION OF CONFORMITY.

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### NOTE

IF THE DEVICE IS CEDED TO THIRD PARTIES, THIS MANUAL MUST BE HANDED OVER TO THE USER ALONG WITH IT.

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## MANUFACTURER DATA

Company's name

Cube Controls Srl

Registered Office

Z.Ind.le Predda Niedda - 07100 - Sassari

VAT ID

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PEC (Certified Email Address)

cubecontrolssrls@pec.it

Phone

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hello@cubecontrols.com

Website

[www.cubecontrols.com](http://www.cubecontrols.com)

## REPAIR AND ASSISTANCE

Exceptional maintenance and technical assistance must only be carried out by Cube Controls Srl or an authorized service centre named by the manufacturer.

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### NOTE



UPON RECEIVING THE PRODUCT, READ THE INSTRUCTION MANUAL CAREFULLY BEFORE PERFORMING ANY OPERATIONS.

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This manual contains instructions for the setting up, use and maintenance of the Sim Racing equipment. The manual consists of several sections, each of which deals with a series of topics divided into chapters and paragraphs.

The general index lists all topics covered in the entire manual. Page numbering is progressive and the page number is shown on each page. This manual is intended for users who wish to install, configure, use and handle maintenance of Cube Controls Sim Racing equipment for the duration of its technical life after its production and sale.

In case of sale to any third parties (sale, loan for use, or any other reason), all the documentation must be handed over to the user along with the product.

Before performing any operation, it is compulsory to read the entire manual and have fully understood the section related to the operations to be carried out.

Cube Controls Srl holds the property rights and copyrights on this user manual. It is forbidden to hand over to third parties or reproduce this document, to use or disclose its contents in any way to third parties without prior authorization to do so by the manufacturer.

Cube Controls Srl declares that the information contained in this manual are in accordance with the technical and safety specifications of the device to which the manual refers.

A certified copy of this manual is stored in the technical dossier kept by the manufacturer.

The manufacturer does not recognize any documentation that has not been produced, disclosed or distributed by the manufacturer itself or authorized personnel.

This manual, like all technical dossiers, will be held with care by the manufacturer for the duration of the period prescribed by law (10 years).

During said period, a copy of the documentation accompanying the product may be requested at the time of sale.

During this period, the entire technical dossier remains exclusively available to the supervisory authorities, who may request a copy.

After this period, it will be the obligation and at the discretion of those who manage the product to ensure the compliance with the laws in force of both the product and its documentation, at that moment in time.

## GRAPHICS

In order to gain a more immediate understanding of the topics, the following graphic and typographic symbols may appear in this user manual.

### WARNING GRAPHICS

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#### NOTE

NOTES CONTAIN IMPORTANT INFORMATION THAT IS HIGHLIGHTED OUTSIDE THE TEXT TO WHICH IT REFERS.

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#### WARNING

WARNING SIGNS INDICATE PROCEDURES WHOSE TOTAL OR PARTIAL NON OBSERVANCE MAY CAUSE DAMAGE TO THE PRODUCT, ITS COMPONENTS, OR EXPOSE THE USER TO DANGER.

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#### DANGER

DANGER SIGNS INDICATE PROCEDURES WHOSE TOTAL OR PARTIAL NON-OBSERVANCE MAY CAUSE SERIOUS INJURY TO THE USER OR OTHER PERSONS IN THE VICINITY OR SERIOUS DAMAGE TO THE PRODUCT.

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## SYMBOLS

The following symbols are contained in or on the device:



### MANDATORY READING

SIGNAL OF OBLIGATION TO READ THE MANUAL.



### WARNING

SYMBOLS THAT CONTAIN A SAFETY FUNCTION OR WARNING SIGNS MUST NOT BE REMOVED, COVERED OR DAMAGED.



# Section 2

## **WARRANTY**

The conditions of warranty, listed in full in the purchase contract, are only applicable if the device is operated under the conditions of intended use.

Except for the ordinary or exceptional maintenance operations described in the MAINTENANCE section and carried out with the indicated procedures all repairs or modifications to the device performed by the user or an unauthorized party will void the warranty.

The warranty shall not extend to damages caused by inexperience or negligence in the use of the device, or by poor or omitted maintenance.

### **The products we sell are covered by warranty under the following conditions:**

1	The warranty is valid for a period of 12 months or 24 months depending on the type of buyer.
2	The Manufacturer assumes the obligation to replace, at its own discretion, malfunctioning, faulty or incorrectly manufactured parts only after careful inspection of said parts.
3	The cost of transport and/or shipment is always covered by the manufacturer in the case of repairing or replacement of the product. The cost of transport and/or shipment is always charged to the buyer in the case of incorrect use of the warranty terms.
4	During the warranty period, any replaced products become the property of the manufacturer
5	This warranty applies to original owner only who has complied with the proper maintenance instructions contained in the manual. Our warranty liability is not extended when the original owner transfers ownership of the product or if any changes have been made to the product.

6	The warranty is not applicable in the event of damage resulting from excessive stress; such as due to inappropriate operating methods, or use of the product after the detection of an anomaly, or failure to comply with the instructions for use and maintenance.
7	The manufacturer declines all liability for any difficulties that may arise in the case of resale or use of the product abroad due to the regulations in force in the country where the product was sold.
8	Proof of purchase (invoice, proof of payment) is required to administer warranty claims on the product or part of it, otherwise the replacement will be covered by the buyer.

**Notice:** should you deem it necessary to make use of the warranty, please indicate the following information:

1	Type of Product.
2	Date of purchase (proof of purchase is required).
3	Detailed description of failure.



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#### NOTE

FAILURE TO COMPLY WITH THE PROCEDURES, WARNINGS AND INSTRUCTION OF USE OF THE DEVICE HEREIN CONTAINED RESULTS IN THE FORFEITURE OF THE WARRANTY.

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# GENERAL SAFETY STANDARDS

## Warning

If part of the documentation is missing or illegible, consult the manufacturer before carrying out any further operations.

This chapter illustrates the general safety rules to be observed when performing any operation on the device. The procedures described in the following chapters must be performed respecting both the methods stated and the general safety rules of this chapter.

**The safety regulations and procedures of use and maintenance in this manual should be followed in addition to general safety rules and any workplace safety regulations which must be respected.**

Safety standards may change according to the country. Therefore, it must be noted that following the procedure in this manual is compulsory in accordance with local legislation in each individual country. In countries where national safety standards do not conform partially or in full with the standards of the country where the device is used, national regulations shall prevail over those on the documentation.

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## NOTE



THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES CAUSED BY THE IMPROPER USE OF THE DEVICE AND BY THE NON-OBSERVANCE OF THE INSTRUCTIONS AND WARNINGS DESCRIBED IN THIS MANUAL

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Failure to comply with the procedures, warning and instruction of configuration, use and maintenance of the device herein contained results in the forfeiture of the warranty.

## **Safety Standards**

During the connection and subsequent use of the device, malfunctions that may not be covered by the documentation may occur.

These situations can sometimes be due by environmental factors or accidental failures and are considered to be totally unexpected and not predictable by the manufacturer

This manual must be kept by the final user and/or authorized personnel entrusted with the use and maintenance of the device.

In case of deterioration or loss, the customer can request a new and compliant copy. Always keep the user manual in a safe and convenient place for future reference.

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### **WARNING**



WARNING SIGNS INDICATE PROCEDURES WHOSE TOTAL OR PARTIAL NON OBSERVANCE MAY CAUSE DAMAGE TO THE PRODUCT, ITS COMPONENTS, OR EXPOSE THE USER TO DANGER.

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## GENERAL DESCRIPTION

Cube Controls Sim Racing equipment includes reproductions of real motorsport equipment designed for simulation use only. These products are made of coated aluminium, inclusive of all buttons and controls. There is a model of Pedals set and several models of steering wheels available. The steering wheels are divided in categories: USB/BLE connectivity and USB only, whereas the pedals set is USB only. USB/BLE can connect to the PC via the Q-CONN magnetic cable or classic 4.0 Bluetooth connectivity.

USB only need to be connected to the PC necessarily via provided USB cable.

## USAGE LIMITS AND TECHNICAL INFORMATION

Mechanical Data		Electrical Data	
Dimensions (mm)	~300x150x70 mm (WxHxD)	Power Supply (V)	5 V D.C.
Weight (gr)	1143 gr	Power Consumption	< 300 mA
External Material	Die-cast Aluminum and Carbon Fiber	Input	USB
Radio Data			
Radio Transmitter	/	USB only connectivity	
Radio Frequency	/		
Maximum Radio Power Output	/		

Mechanical Data		Electrical Data	
Dimensions (mm)	~280x150x70mm (WxHxD)	Power Supply (V)	5 V D.C.
Weight (gr)	from 895 to 1100 gr	Power Consumption	< 300 mA
External Material	Die-cast Aluminum and Carbon Fiber	Input	USB

#### Radio Data

Radio Transmitter	Wireless – Bluetooth 4.0
Radio Frequency	2402-2480MHz
Maximum Radio Power Output	-0.392dBm

#### USB/BLE Connectivity

Mechanical Data (each pedal)		Electrical Data	
Dimensions (mm)	240x250x100 (WxHxD)	Power Supply (V)	5 V D.C.
Weight (gr)	1363 gr	Power Consumption	< 300 mA
External Material	CNC and Die-cast Aluminum, Carbon Fiber	Input	USB

#### Radio Data

Radio Transmitter	/
Radio Frequency	/
Maximum Radio Power Output	/

#### Pedals set

## **INTENDED USE**

Cube Controls sim racing equipment includes reproductions of motorsport steering wheels and pedals set which are intended only for use in driving and game simulators.

## **UNINTENDED USE**

The device was designed and manufactured exclusively for the use set forth in paragraphs: GENERAL DESCRIPTION and INTENDED USE, therefore it is absolutely forbidden any other type of application and use. In addition:

- It is strictly forbidden the use of the device with power supply system which are inappropriate or non-compliant with the standards.
- It is strictly forbidden to use the device for improper uses, different from those set forth by the manufacturer.

- It is forbidden any change or internal modification to product hardware or firmware. The manufacturer declines all liability resulting from the reuse of any unit after its decommissioning.

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#### **NOTE**



THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES CAUSED BY THE IMPROPER USE OF THE DEVICE AND BY THE NON-OBSERVANCE OF THE INSTRUCTIONS AND WARNINGS DESCRIBED IN THIS MANUAL

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#### **Residual Risks**

An in-depth risk analysis has been carried out on the device by the manufacturer, resulting that some risks cannot be eliminated due to their nature. The user is hereby informed that the potential residual risks described below do persist, despite all technical and constructive measures implemented by the manufacturer to make the device safe. Therefore, it is important that any user entrusted with the use and maintenance of the device have read and fully understood the manual.

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#### **NOTE**



THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES CAUSED BY THE IMPROPER USE OF THE DEVICE AND BY THE NON-OBSERVANCE OF THE INSTRUCTIONS AND WARNINGS DESCRIBED IN THIS MANUAL

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#### **Notably**

- It is strictly forbidden any change or internal modification of the device. The manufacturer declines all liability for damages to persons, pets and/or things caused by the use of a device which has been modified or altered improperly by unauthorized personnel.

- Please preserve the manual with care as it is necessary for the correct and safe use of the steering wheel.
- In case of damages or accidental impact of the device resulting in the presence of sharp edges in the outward structure (aluminium frames and/or cladding), please contact the authorized assistance service and follow their instructions.

### **Important**

- Avoid the use of water or other liquids on the electrical equipment and on the device.
- Follow the operating instructions contained in the user manual.
- All maintenance operations shall be performed following the instructions in the manual.

### **OPERATIONS WHICH MAY EXPOSE THE USER TO POTENTIAL RISKS:**

While starting the device please respect all the general safety standards.

**Notably:** make sure all the electrical components are not under power before performing any operation.

Although a number of solutions have been adopted by the manufacturer in order to ensure the safe use of the device in all processes: transport, assembly, adjustment, use and maintenance, some potential risks for the operator and the environment cannot be eliminated and do persist due to technological reasons (i.e. reliability of the devices) and management reasons. Therefore, the user is hereby informed of the potential residual risks reported.

### **FCC COMPLIANCE STATEMENT**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



### **WARNING**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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# Section 3

## **HANDLING**

Before handling and use of the device, it is important to assess a number of factors. Please check and ensure the following:

- The user must avoid exposure to solvents, acids and water within the area of use and storage of the device. The user must also avoid direct exposure of the device to weathering agents, rain, moisture and other items containing liquid such as vape, cup and so forth. Only use the device indoors.
- Operating room temperature: 10°C to +40°C
- Storage room temperature: -30°C to +85°C
- Relative humidity conditions: MAX 80% non-condensing.
- Disconnect the USB cable from both sides if you will not use this product for long periods of time.

## **TRANSPORT**

The weight of the device is indicated in this manual and on the label attached on the package. Due to its size and weight, it allows for manual handling by one single user. Do not hold the device by the USB cable. This may irreversibly damage the Sim Racing equipment.

## **INSTALLATION**

The universal hub on the back of the wheel body allows the user to install various adapters, or even connect it directly to your FFB base. Please refer to your adapter or motor manufacturer to ensure compatibility with the steering wheel.

## **CONFIGURATION**

### **Warning**

All devices are fully assembled and tested by the manufacturer before the dispatch and delivery of the product.

The product has been designed, manufactured and tested to meet all specific standards (see Declaration of Conformity), if configured correctly.

If the configuration, use and/or maintenance of the device is not performed correctly, this may cause malfunctions during use or safety problems. Improper configuration and maintenance will void the warranty terms.



### **WARNING**

THE DEVICE CAN ONLY BE STARTED AFTER IT HAS BEEN CONFIGURED CORRECTLY.

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## **Checks and Operations Before Starting**

Inspection for potential damage.

Check the integrity of each individual element and its components.

Notably, ensure that:

- the device shows no sign of significant damage, deformation or evidence of impact during transport;
- the USB connection input is not damaged;
- the equipment and accessories provided in the package are not damaged.

The minimum illuminance levels (from natural and/or artificial light) required in the area of configuration and use of the device are: 200 lux.

## **Reporting damages to Cube Controls Srls**

If any damage or defect is found, consult the manufacturer before proceeding with any operation.

## **Configuration procedure**

To set up and operate the device please follow the procedure below:

### **USB Only steering wheels:**

- Download the software to set up the device and the display.
- Plug the steering wheel into your PC with the provided Q-CONN and wait for your computer to recognize the Device.
- Turn on the steering wheel by clicking the on/off button on the back of the device
- Start the CubeSet proprietary app and check the various inputs

Please refer to the user manual for more information about the software and configuration procedure.

### **USB/BLE steering wheels:**

- Download the software to set up the device.
- Plug the steering wheel into your PC with the provided Q-CONN and wait for your computer to recognize the Device.
- Turn on the steering wheel by clicking the on/off button on the back of the device.
- Start the CubeSet proprietary app and check the various inputs.

Please refer to the user manual for more information about the software and configuration procedure.

**Pedals Set:**

- Download the software to set up the device
- Plug the Brake pedal into the throttle pedal where the electronics resides
- Plug the throttle into your PC with the provided USB Cable
- Start the PedalUI proprietary app and check the pedals' inputs

Please refer to the user manual for more information about the software and configuration procedure

## **USB/BLE mode: on switching between modes**

- Press and hold button 22 and turn on the steering wheel via the dedicated On/Off button on the backside of the wheel.
- Turning off the steering wheel and repeating the procedure will allow you to toggle between the two different connection modes.
- The device will always boot up to the latest connection method used.

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### **NOTE**



THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES CAUSED BY THE USE OF THE INAPPROPRIATE POWER SUPPLY SYSTEM NON-COMPLIANT WITH LEGAL REQUIREMENTS AND CERTIFICATIONS.

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## **USB/BLE Steering Wheels - Power and Battery**

- To charge the battery plug the steering wheel into your PC by only using the provided Q-CONN cable. The device must be switched on while charging.
- Plug the USB cable into a charging system capable of supplying a voltage of 5 V D.C. 1A.
- When the device needs recharging, the battery indicator LED turns yellow.
- The battery indicator LED will turn green once the battery is fully charged.

## **USE**

### **Troubleshooting**

If an unexpected or dangerous behaviour should occur while powering on or operating the steering wheel, please follow the procedure below:

- Turn it off.
- Turn the device on again.
- If the malfunction persists, unplug the power supply and contact the manufacturer's technical assistance immediately.

### **Power On Procedure**

To switch on the device please follow the procedure below:

- Turn on the steering wheel by pressing the power button on the back of the wheel body.

### **Operating Procedure**

To operate the device please follow the procedure below:

- Install and start up the racing game on your PC to operate the steering wheel.



# Section 4

## MAINTENANCE

### Safety

Before performing any maintenance operation, it is compulsory for the operator to have read and fully understood the manual.

All type of cleaning and maintenance work must always be performed when the device is switched off and has been disconnected from the power source (i.e. the USB cable must be unplugged). When performing such intervention, carefully follow the instructions in this manual.

The minimum illuminance levels (from natural and/or artificial light) required in the area where maintenance operation will be performed are: 200 lux.

Besides the instructions contained in this manual, for all type of cleaning and maintenance work must be respected the general safety rules and, where applicable, any workplace safety regulations.

### Periodic Maintenance

Periodically clean the device from dust and dirt that may have built up on the external surface. If necessary, use a compressor to blow away the dust. Clean only with a dry or slightly damp non-abrasive cloth. Do not use alcohol or any strong solvent. Do not use abrasive sponges, chemical solvents or cleaning agents.

While cleaning, please protect the internal electric part from water.

Once a year it's highly recommended to put a really small drop of lubricant (sewing machine oil or similar) on the points where the lever body touches the base of the shifter when pressed down. It is also recommended to put a small drop of lubricant on the contact point of the stainless-steel pin. Do not use any spray products such as WD40 or similar.

Update the software when a new version becomes available. To update the software:

- Please contact Customer Support or visit the website of the manufacturer.

## **Exceptional Maintenance**

Extraordinary maintenance is required in cases of breakage, unpredictable accidents or inappropriate use of the device.

These situations, which may occur from time to time, are completely unpredictable and therefore it is impossible to describe the appropriate intervention procedures.

If exceptional maintenance is required, consult Cube Controls' technical assistance for appropriate instructions on the situation.

**Any type of intervention must be carried out by specialized and authorized personnel named by the manufacturer.**

## **DECOMMISSIONING**

### **Disabling the device**

The device has been manufactured and build in accordance with the standard of strength, durability and flexibility as it is intended to be used for many years.

At the end of its technical life, discard the device with due care. It is required that the product must be decommissioned and then reduced in such a way that it can no longer be used for the purposes for which it was designed and built, while allowing the reuse of its raw materials, where possible.

Decommissioning procedures must be observed in all the following cases:

- Decommissioning of the device and storage in the warehouse.
- Permanent dismantling and disposal of the device.

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## NOTE

THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES TO PEOPLE AND/OR THINGS CAUSED BY THE REUSE OF SINGLE PARTS OF THE DEVICE FOR OTHER FUNCTIONS OR IN MOUNTING CONFIGURATIONS DIFFERENT FROM THE ORIGINAL.



THE MANUFACTURER CANNOT GUARANTEE NOR APPROVE, IMPLICITLY OR EXPLICITLY, THE SUITABILITY OF SUCH PARTS FOR SPECIFIC PURPOSES IF REUSED AFTER THEIR PERMANENT DISMANTLING FOR ITS SUBSEQUENT DISPOSAL.

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## Dismantling and Disposal

Reusing spare parts of the device for other purposes remains at the full discretion of the user.

The label displays the symbol indicated in Legislative Decree no. 49 of 14 March 2014, which transposes Directive 2012/19/EU, which regulates that customers and end-users in EU countries shall dispose of the product in a specialised waste collection point for electronic and electrical devices.

Please refer to the service centre in your area for information about the waste collection system.

Specific Symbol:



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## NOTE

THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES CAUSED BY THE PRODUCT IF NOT USED IN ITS ORIGINAL VERSION AND FOR THE PURPOSES SPECIFIED IN THIS MANUAL.



THE MANUFACTURER DECLINES ALL LIABILITY FOR DAMAGES TO PEOPLE AND/OR THINGS RESULTING FROM THE RECOVERY OF PARTS OF THE EQUIPMENT AFTER ITS DISMANTLING

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