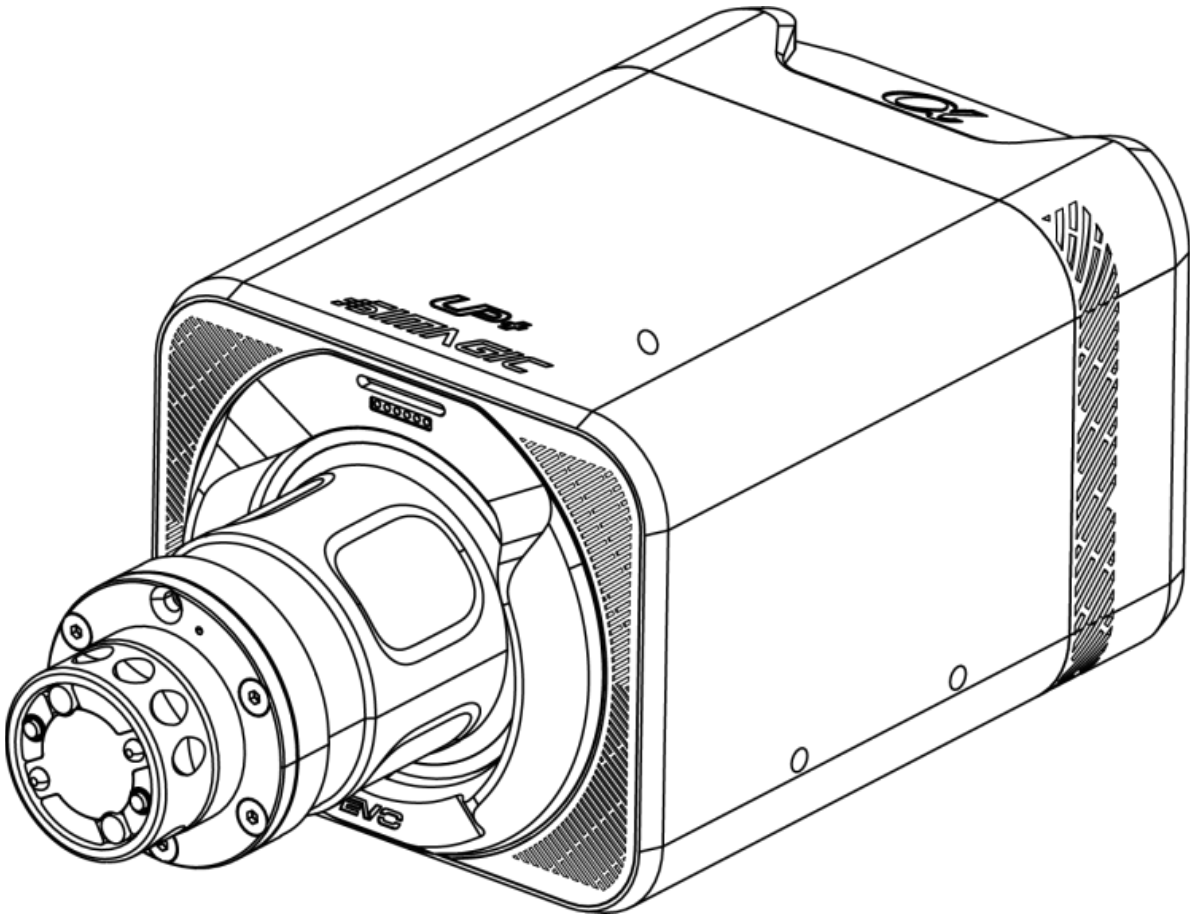
SIMAGIC
KEEP RACING



α EVO

USER MANUAL

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Thanks for choosing SIMAGIC. We can't wait to see you out on track. Before using your new wheelbase, please review this manual for essential information around installation, safe usage practices, and more.

KEEP RACING!

1.Introduction

1.1 Overview

Product Identification

Model: Alpha EVO Sport/Alpha EVO/Alpha EVO Pro

Serial Number (S/N): The SIMAGIC product serial number (S/N) is an essential credential for after-sales service and technical support. Please keep it properly for future reference. The S/N consists of 10 or 14 digits and is clearly printed and affixed to both the product packaging label and the product body.

Designed by: SHEN ZHEN SIMAGIC TECHNOLOGY CO.,LIMITED

Manufacturer: Speed sim industry (Shenzhen) Co. LTD

EU Authorized Representative: Bureau 450, 37 passage du Ponceau, Paris, France 75002

Country of Origin: MADE IN CHINA

Date of Manufacture: Please refer to the label on the product, packaging, or nameplate. Scan the serial number on the package for confirmation.

Alpha EVO delivers sharper, faster, and smoother force feedback.
Available in three torque levels:

·Alpha EVO Sport(9Nm) · Alpha EVO(12Nm) ·Alpha EVO Pro(18Nm)

- **Ultra-Low Inertia Tech:** Lighter weight, reduced inertia.Sharper, smoother, and more precise force feedback.
- **Zero-Cogging Tech:** Fine tuned to perfection. Our signature motor design offers highly consistent feedback that fans have grown to love.
- **21-Bit Encoder:** Lower inertia, better modularity. EVO offers precision unlike any base we've produced before.
- **New Gen Dynamic Force Domain Filter Algorithm (DFDF):** Optimized to accompany the new motor, giving extra FFB fidelity, further improving handling.
- **Open Ecosystem:** Further improved compatibility for third-party devices.
- **Dual-Mode Connectivity:** Reliable and versatile. Built to withstand hours upon hours of hard racing. That's the SIMAGIC difference.
- **Active Cooling System:** An all-new active cooling system and temperature regulator ensure you always get 100% of available torque from your EVO.
- **High-Strength Shell:** provides a more stable and secure driving experience.
- **All-New Simpro Manager Software:** greater tuning flexibility and broader system compatibility.

1.2 Specifications

	Alpha EVO Sport	Alpha EVO	Alpha EVO Pro
Motor Type	Ultra-Low Inertia Motor	Ultra-Low Inertia Motor	Ultra-Low Inertia Motor
Max Torque	9Nm	12Nm	18Nm
Power Intut	AC 100-240V 50/60Hz 3.5A	AC 100-240V 50/60Hz 3.5A	AC 100-240V 50/60Hz 6.0A AC 120V 60Hz 6.0A(UL)
Power Output	DC 48V 5.25A MAX(252W)	DC 48V 5.25A MAX(252W)	DC 48V 8.3A MAX(398W)
Encoder Resolution	21位	21位	21位
Response Rate	20KHz	20KHz	20KHz
Frequency	180KHz	180KHz	180KHz
Wireless module	Blueooth 2.4G，2402-2480 MHz，- 20 dBm~4dBm	Blueooth 2.4G，2402-2480 MHz，- 20 dBm~4dBm	Blueooth 2.4G，2402-2480 MHz，- 20 dBm~4dBm
Signal Connection	CAN FD/CAN/USB	CAN FD/CAN/USB	CAN FD/CAN/USB
Quick Release	Full support for SIMAGIC QR50 & QR70 & QR-A	Full support for SIMAGIC QR50 & QR70 & QR-A	Full support for SIMAGIC QR50 & QR70 & QR-A
Material	Die-casted aluminum	Die-casted aluminum	Die-casted aluminum
Dimension	130x110x281 mm	130x110x281 mm	130x110x317mm
Net Weight	6.236kg	6.236kg	8.627kg
Accessories	USB-B Cable, USB-C Cable, 1.5-Meter Power Supply, Wheelbase Power, Installation Kit	USB-B Cable, USB-C Cable, 1.5-Meter Power Supply, Wheelbase Power, Installation Kit	USB-B Cable, USB-C Cable, 1.5-Meter Power Supply, Wheelbase Power, Installation Kit

1.3 Package Contents

Alpha EVO Wheelbase (Accessories) Includes:

- USB-B data cable x 1
- Type-C data cable x 1
- 1.5-meter power supply x 1
- Wheelbase power x 1
- Installation Kit: (Button Head Socket Cap Screw M6-10 x 6/Button Head Socket Cap Screw/M6-16 x 6 /Allen Key (4mm) x 1)

The Optional Accessories List Includes：

EVO Base Side Mounting:

- Side Mount Bracket (MB-S) x 2
- Fully-Threaded Bolt M6-12 x 6
- Button Head Socket Cap Screw M8-14 x 6
- Ball Spring x 6
- Allen Key (5mm) x 1
- M8 Locknut x 6

EVO Base Front Mounting:

- Front Mount Bracket (MB-F) x 2
- Fully-Threaded Bolt M6-12 x 6
- Button Head Socket Cap Screw M8-14 x 6
- Allen Key (5mm) x 1

1.4 Optional Accessories

- Multifunctional Desk Fixture (T-LOC)
- Mounting Brackets (MB-A)
- Side Mount Bracket (MB-S)
- Front Mount Bracket (MB-F)
- SIMAGIC Quick Release (QR50)
- SIMAGIC Quick Release (QR70)
- SIMAGIC QR Adapter (QR-A)

1.5 Certification Information

FC	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.
CE	The device is CE certified and meets the requirements of the European Union Directive 2014/53/EU on radio equipment.
UK CA	This product complies with UKCA relevant regulations and standards.
VCCI	本機器は、民間情報処理装置障害自主規制協議会（VCCI）のクラス B 情報通信機器の基準を満たしており、家庭及びそれに類する生活環境での使用に適しています。
	These symbols indicate that you must follow the Waste Electrical and Electronic Equipment (WEEE) and Waste Battery and Battery Regulations when disposing of the device, its batteries and accumulators, and its electrical and electronic accessories.According to the rules, this equipment must be disposed of separately at the end of its service life. Do not dispose of the device, its batteries and accumulators, or its electrical and electronic accessories together with unsorted municipal waste, as this will harm the environment. To dispose of this equipment, it must be returned to the point of sale or turned in to a local recycling facility. You should contact your local household waste disposal service for details.
RoHS	This device complies with the requirements for the restriction of hazardous substances (RoHS) in electrical and electronic equipment as stipulated in Directives 2011/65/EU and 2015/863. The content of hazardous substances including lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) and four phthalates in its homogeneous materials is below the statutory limit values.
REACH	The device complies with the requirements of Regulation (EC) No. 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

This product complies with the requirements of the Australian and New Zealand Radiocommunications Act (RCM), meeting Electromagnetic Compatibility (EMC) and electrical safety standards.

The product has passed all evaluation procedures established in the technical regulations of the Customs Union and complies with the norms of the Customs Union countries.

2.Instructions for Use

2.1 User Tutorial

Thank you for purchasing the SIMAGIC Alpha EVO Wheelbase. Before setting up the product, carefully read all the documentation that came with the package.

- For information about firmware upgrades, please check https://simagic.com/pages/download-center

* The related files are game adaptation files developed by SIMAGIC for SIMAGIC-compatible devices. To safeguard users' legal rights and interests, please download all files through SIMAGIC's designated channels.

- Please visit SIMAGIC official YouTube channel (https://www.youtube.com/@simagicofficial6890) for tutorial videos showcasing different product setup options and usage techniques. Learn more about the development behind our products.
- Please visit https://simagic.com/pages/telemetry-support to access the list of games supported by this product. Note that using this product in non-supported games may result in certain functions not working as intended.

This product is intended for indoor use only.

15+ Recommended ages: 15 and above

2.2 Installation Guide

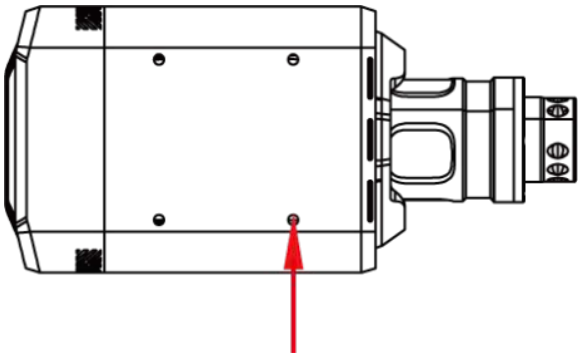
This section provides instructions for setting up and initializing your wheelbase.

*Please avoid using the product without proper mounting, as your wheelbase may shift during operation and could potentially cause injury
Note: Optional accessories are required for installation on the rig.

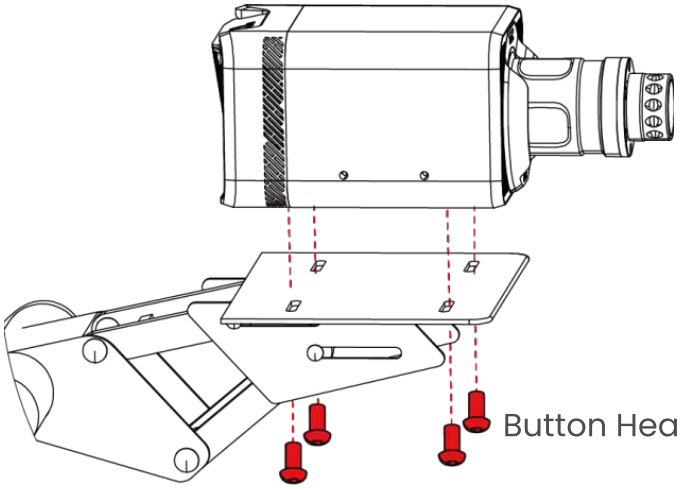
2.2.1 Alpha EVO Wheelbase Mounting Method

1. Wheelbase Mounting

1.1 Alpha EVO Bottom Direct Mounting Method



The threaded hole side should face downwards

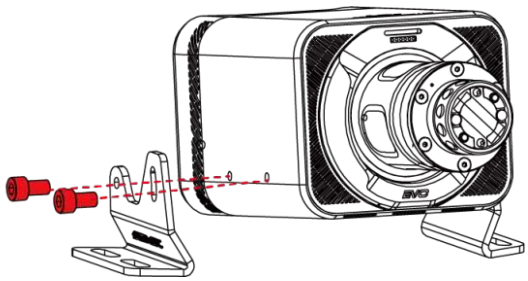


Button Head Socket Cap Screw (M6-10)

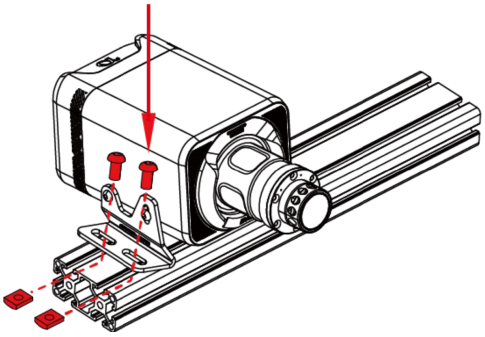
Method of mounting the base using regular rigs

1.2 Alpha EVO Side Mounting Rig Method

Fully-Threaded Bolt (M6-12)



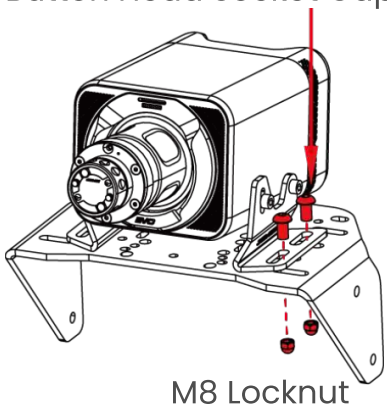
Button Head Socket Cap Screw (M8-14)



Roll in T-Nut with Ball Spring

Method of mounting the base using aluminum profiles.

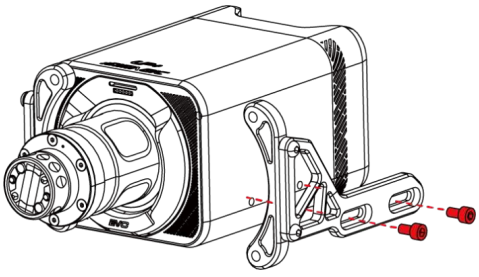
Button Head Socket Cap Screw (M8-14)



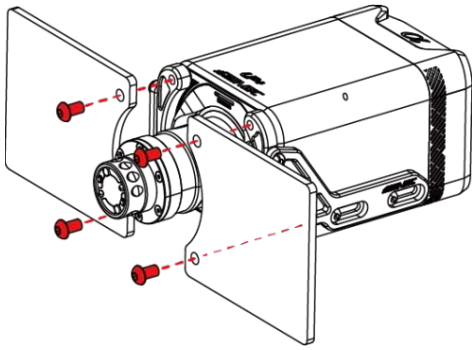
M8 Locknut

Method of mounting the base using regular rigs.

1.3 Alpha EVO Front Mounting Rig Method



Fully-Threaded Bolt (M6-12)

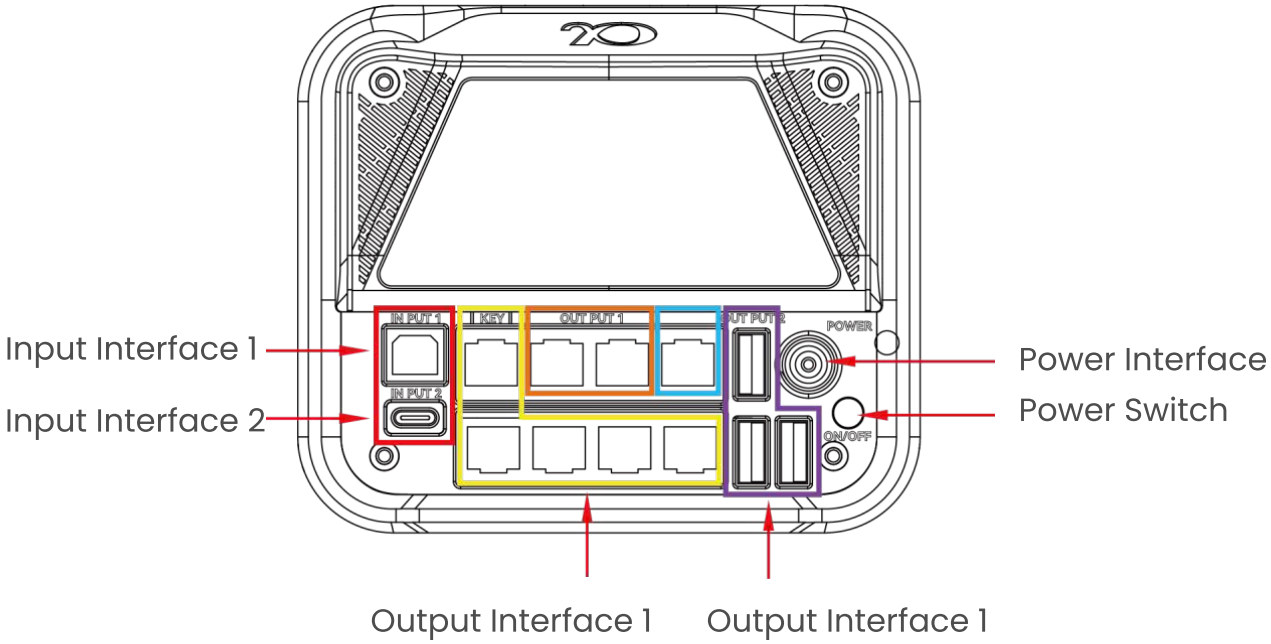


The pack includes Button Head Socket Cap Screw M8-14. If the length is not suitable, please select screws of the appropriate length based on your rig.

Note: Front bracket installation disables all magnetic connectivity. Avoid installation if magnetic accessories are needed.

2. Alpha EVO Product Interfaces

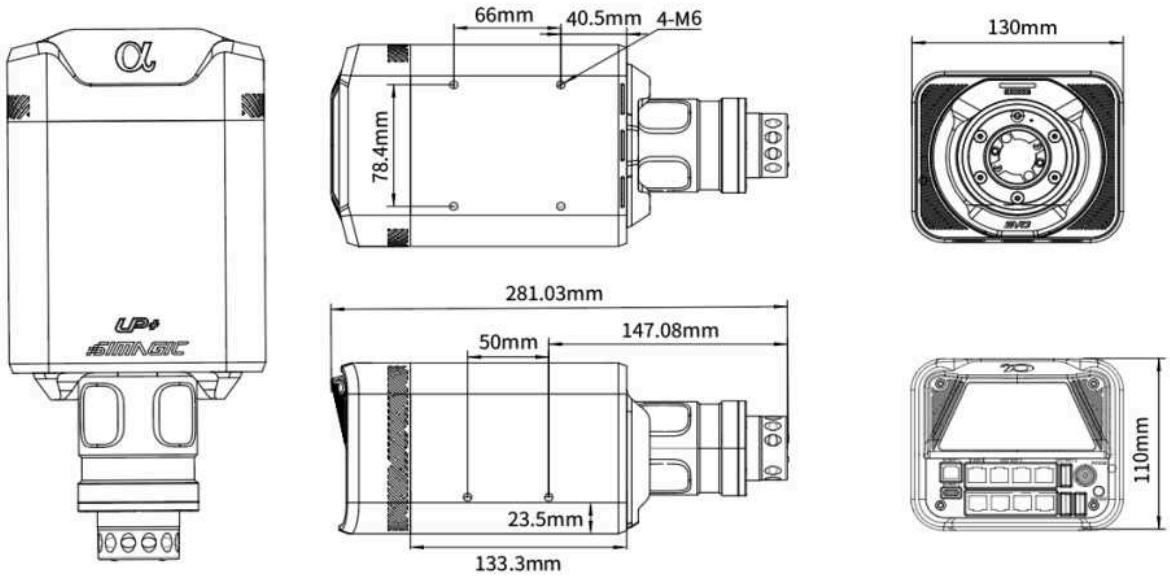
Note: Some products are equipped with two output terminal cables.



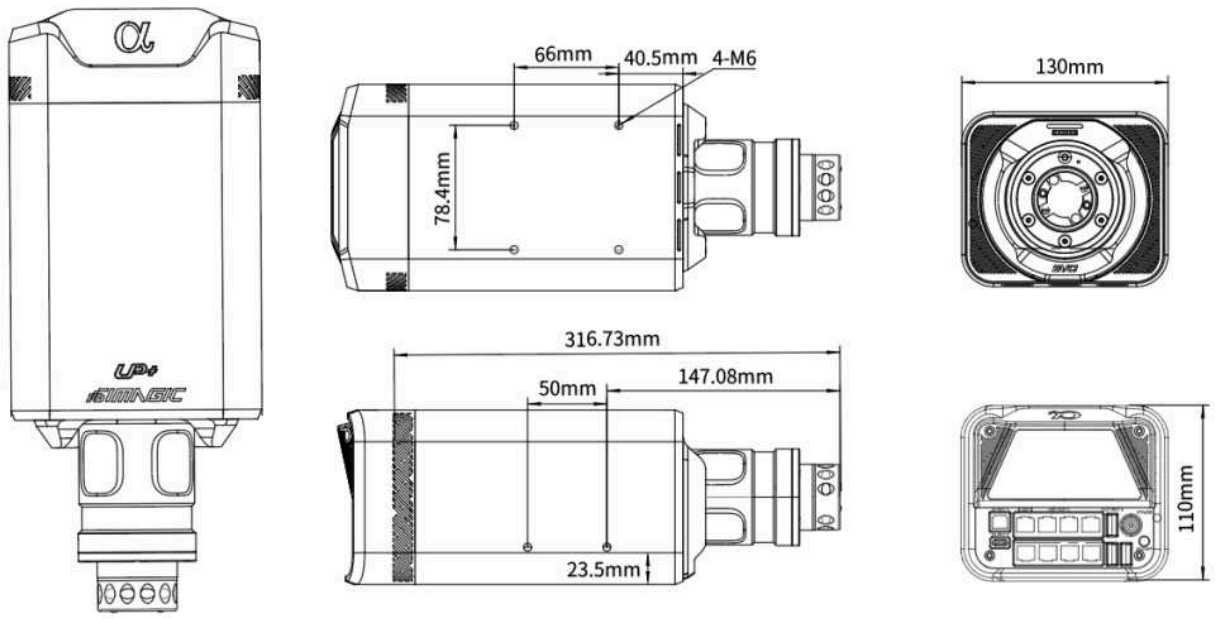
- [Input Interface 1] The USB-B interface is the main input interface. [Input Interface 2] The Type-C interface is for third-party USB steering wheels and USB enhanced input interfaces.
- The RJ45 connector supports CANFD and USB signal output for devices with new protocols.
- [Output Interface 1] The RJ45 connector supports CANFD signal output for devices with new protocols.
- The RJ45 connector supports CANFD signal output for devices with new protocols. Emergency stop switch.
- [Output Interface 2] The USB interface supports CAN signal output for devices with old protocols.

2.2.2 Alpha EVO Wheelbase Dimensions

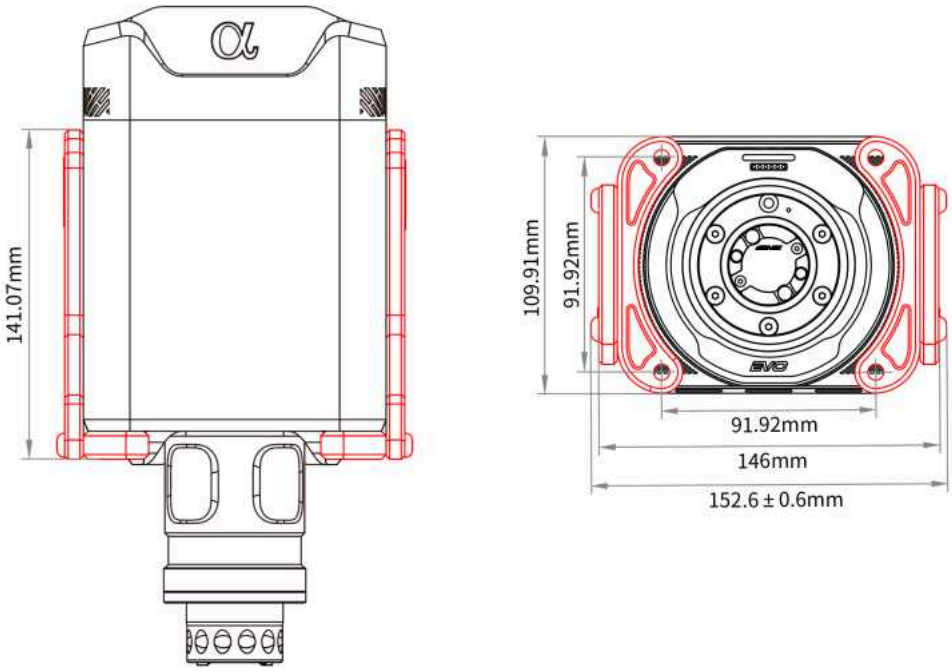
Alpha EVO / Alpha EVO Sport



Alpha EVO Pro



Front Mounting Dimensions (Including MB-F Bracket)



3. Software Support: SimPro Manager

SimPro Manager will automatically notify you if there are available updates for the software. If you want to double-check, please go to https://simagic.com/pages/download-center and download the newest version. SimPro Manager has a built-in feature that allows you to update the firmware on your devices automatically.

Scan QR Code

4. Warranty Description

Warranty Terms

For wheelbases, steering wheels, and pedals purchased on or after July 15, 2023, SIMAGIC provides a warranty period of 24 months from the original date of purchase. During the warranty period, if there are issues with the machine's components, materials, or craftsmanship under normal use and maintenance, and the problem is confirmed after inspection, the company will provide free repairs and replacement parts.

SIMAGIC product's Serial Number (S/N) will serve as the primary identifier for after-sales support. You can locate the S/N on the product packaging and the product itself, attached via a sticker on the product surface. Simply provide the 10 or 14-digit S/N to our customer service team or SIMAGIC distributor when applying for after-sales service, and they will assist you promptly. For users who have products with serial numbers, there's no need for warranty cards. However, if your product does not have a serial number, you will need to retain your warranty card for after-sales support.



Your product's serial number can be found on the label sticker of wrapping

*Consumer Law. This Limited Warranty gives you specific legal rights, and you may have other rights that vary by your country, province or state, as applicable. Other than as permitted by law, SIMAGIC does not exclude, limit or suspend other rights you may have. For a full understanding of your rights, you should consult the laws of your country, province or state, as applicable.

SIMAGIC establishes dealer terms and consumer product warranty terms, requiring official partners such as dealers and agents to provide consumers with standardized SIMAGIC warranty services to safeguard consumers' legal rights.

SIMAGIC adheres to a service spirit that is responsible for users and ensures user confidence, striving to create the ultimate user experience. Regarding these warranty terms, if adjustments are necessary, we regret that specific notifications may not be provided.

Please refer to the latest content released through official channels such as the official website. Please avoid causing damage to the machine intentionally. Do not deviate from the guidance of official or officially authorized personnel when performing non-normal hardware or system operations on the machine. For detailed usage instructions, please visit https://simagic.com/pages/product-tutorial .

Disclaimer

The Limited Warranty does not apply to any:
a) Failure to provide proof of purchase for the product or an order number, or if there is reason to believe that they have been forged or altered.
b) The warranty claim is made in a country or customs area other than where the product was originally purchased.
c) Damage caused to the product by disassembly or modification of its structure without written authorization from SIMAGIC.
d) Products purchased from a retailer other than SIMAGIC's official online store.
e) Cosmetic damage, including but not limited to scratches, dents, and plastic damage at ports, unless the damage is caused by defects in materials or workmanship.
f) Damage caused by not adhering to SIMAGIC's product usage and operation specifications, or by modifying or disassembling the product.
g) Damage caused by using third-party components or products that do not meet the specifications of SIMAGIC's hardware products.
h) Defects caused by normal wear and tear or normal aging of the product.
i) The serial number on SIMAGIC's product has been removed or altered.
j) If SIMAGIC receives information from relevant authorities that the product has been stolen, and the user cannot prove in any way that they are the authorized user of the product.
k) Damage caused by accidents, lightning strikes, corrosion, fire, liquid contact, earthquakes, or other external causes.

5. Safety Information

In order to achieve maximum safety while using your products, We suggest that you adopt the following guidelines:

* Storage and Operating Conditions:

Operating Temperature	0°C~40°C
Humidity	20% – 80% RH, Non-Condensing.
Storage and Usage	For indoor use only. Avoid direct sunlight. If the device is moved from a cold outdoor environment indoors, leave it unused for 2 hours to allow condensation to dissipate before powering on.

This product is designed to operate under the conditions specified above. Operating outside these conditions may cause certain functions to malfunction or affect overall performance.
Before using the product, ensure it has adjusted to the recommended indoor temperature if it was exposed to extreme heat or cold.

This product is intended for sim racing only.
Should you have trouble using the product properly and troubleshooting does not work, unplug the power and go to your local distributor for support. Do not attempt to service or fix the product yourself at any time.
To prevent fire or shock hazard, never expose the products to rain or moisture.
Only use the power and/or accessories included in the package, and/or purchase accessories made and/or approved by the manufacturer.
Use only a standard AC wall outlet with protective grounding to avoid product damage or electric shock.
When terminating use, please turn off the buttons and power equipment to prevent accidents.
Unplug the unit during a lightning storm or if it will not be used for a long period of time.
This device contains no user-serviceable parts. Disassembly may result in a risk of electric shock. Do not take apart the phone (doing so will void your warranty), component replacements must be carried out or authorized by SIMAGIC's official repair center.

When using the simulator, please pay attention to the following:

- ⚠ This product is not intended for use by children under 14 years of age.
- ⚠ First-time users or those experiencing the device should be guided by the device owner.
- ⚠ This product operates with a high-torque direct-drive motor. Keep limbs, hair, loose clothing, cables, and accessories away from rotating parts (quick-release mechanism) during operation. Strong force feedback may cause serious crushing injuries, muscle damage, or fractures.
- ⚠ Kill Switch is a legally required safety device. Before starting any driving simulation, ensure that the Kill Switch is connected and placed within the operator's reach. Under no circumstances, if control of the device is lost, should you delay pressing the Kill Switch.
- ⚠ Users with a history of epilepsy, heart disease, or who have a pacemaker should consult a qualified physician before using this device. Certain patterns may trigger seizures with no prior history. If you experience any symptoms, please stop using the product immediately and consult a doctor.
- ⚠ When using a high-torque base, the peak force feedback may cause hand injuries. If the feedback is too strong, release your hands immediately and adjust the feedback intensity parameters promptly to prevent potential accidents.
- ⚠ The equipment contains moving parts, pinch points, and sharp edges that may cause personal injury. Operate with caution to prevent pinching, bruising, kicking, smashing, or other bodily injuries.
- ⚠ It is recommended to limit the force feedback gaming time from 20 to 40 mins to avoid health risks from excessive use.
- ⚠ Users should refrain from driving a real car for at least 1 hour after finishing the game.
- ⚠ If any abnormalities are detected, stop using the device immediately and seek assistance from SIMAGIC's official or authorized service center.
- ⚠ Please follow SIMAGIC's official website and public platforms for the latest product information.

6. Contact Us

Discord

Youtube

Instagram

Facebook

SIMAGIC official website: https://simagic.com/
Global social media account name: simagic official

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