



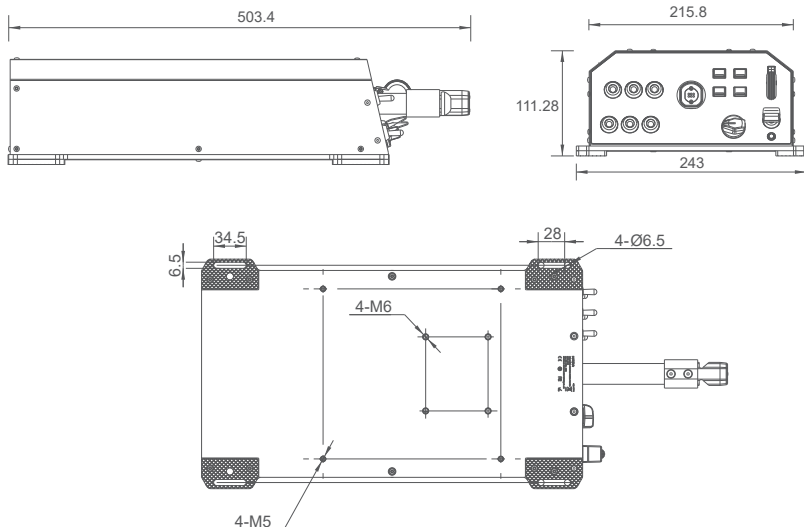
## AY210 Force Feedback Yoke Base



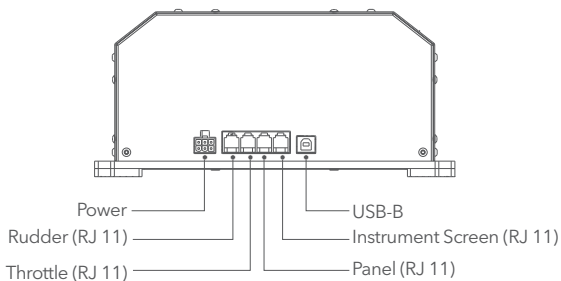
## 01 Product Features

- MCLS Force Feedback Technology
- 9Nm Roll Force and 200N Pitch Force
- Aluminum Quick Release
- Programmable Switch Panel
- 150mm Long Pitch Travel
- High-Resolution Encoder

## 02 Parameters



## 03 Connection Ports

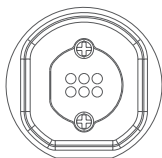




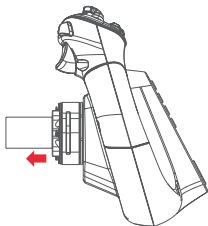
## 04 User Guide

### 1. Securing the Yoke

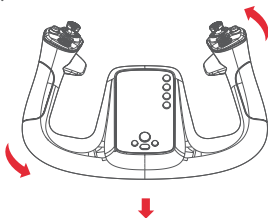
- a. Rotate the D-shaped head of the MOZA Force Feedback Yoke Base to the position shown in the diagram.



- b. Press and hold the quick release handle on the back of the MFY Yoke Handle then align the yoke with the connecting rod.



- c. After attaching the yoke, release the quick release handle and gently wiggle the yoke to ensure it is securely mounted.



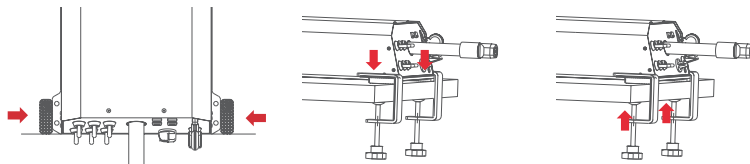
- d. Once connected, power on the MOZA yoke base, and the lights on the MFY yoke handle will illuminate.

\* If the connection fails, confirm that the MFY yoke handle is securely attached to the yoke base. If the lights remain off, verify the brightness settings in MOZA Cockpit software.

## 2. Securing the Yoke Base

### Desktop Clamping (Optional Desk Clamp Required):

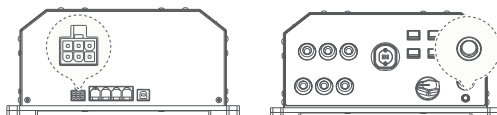
- Attach the included extension pads to the outer sides of the protruding sections on both sides of the Yoke Base.
- Secure the desk clamp to the protruding sections of the yoke base.
- Tighten the star-shaped handle until the clamp is securely fastened to the desk.



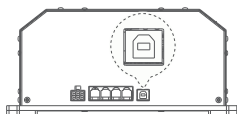
Also, the base can be mounted onto simulator cockpits using the screw holes located on the bottom of the base.

## 3. Connecting to PC

- Connect the power cable to the MOZA AY210 yoke base and plug it into a 220V outlet. Short press the power button to turn it on (long press to turn it off). The power light will flash upon successful connection.



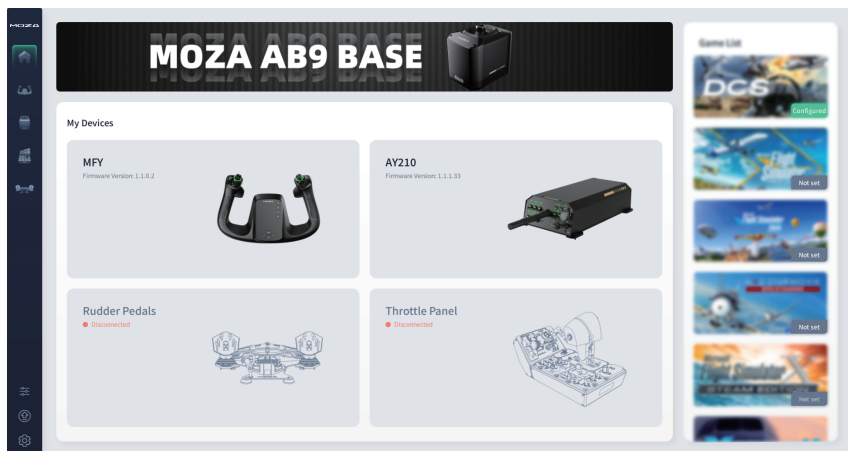
- Use the included USB cable to connect the Type-B end to the corresponding port on the back of the base, and the Type-A end to your PC. If connected successfully, the power light will remain on, and the control panel lights will illuminate.



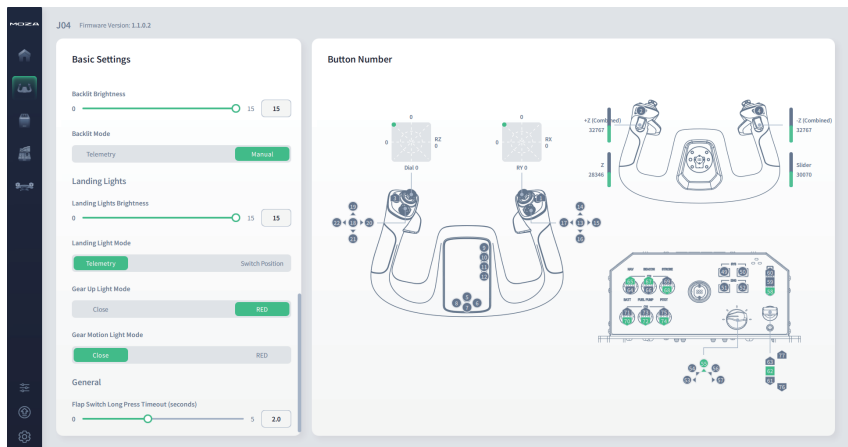
Download and install the MOZA Cockpit Software from [www.mozaracing.com](http://www.mozaracing.com).  
For additional information and tutorial videos, please visit the official website.

## 05 Software Introduction

The main page displays the operational status of all connected devices, including the base, yoke, throttle, and rudder pedals, while also enabling quick game launches.



From the left-side icon menu in MOZA Cockpit, select the MFY yoke icon to access the Yoke Settings page.



## **06 Base Features**

### **Cogging Torque Calibration**

Click the calibration button on the interface to optimize the cogging feel and balance of the yoke handle. The process may take some time—please wait for the progress bar to complete before proceeding with other operations.

Note: During the calibration process, avoid touching the yoke handle to ensure accurate results.

### **Base Front Panel Backlight Adjustment**

The AY210 base provides two modes for adjusting backlight brightness:

- **Manual Mode:**  
Adjust the lighting intensity using the backlight brightness slider in the MOZA Cockpit software.  
Brightness levels range from 0 to 15, with level 0 completely turning off the lights.
- **Telemetry Mode:**  
Synchronizes the backlight brightness with in-game cockpit lighting using telemetry data.

### **Landing Gear Light**

The landing gear light is located at the top-right corner of the front panel and supports three modes: Off, Red, and Green.

There are two modes for adjusting its brightness:

- **Manual Mode:**  
Adjust the lighting intensity using the landing gear light brightness slider in the MOZA Cockpit software.  
Brightness levels range from 0 to 15, with level 0 completely turning off the lights.
- **Telemetry Mode:**  
Synchronizes the lighting intensity with in-game cockpit lighting using telemetry data.

### **Landing Gear Status Lighting:**

#### **Gear Up Position:**

Users can set the landing gear light color for when the gear handle is in the UP position.

Options include:

- **Off:** The landing gear light turns off when the gear is retracted.
- **Red:** The landing gear light illuminates red when the gear is retracted.

#### **Unlocked State:**

Users can set the landing gear light color for when the landing gear is in an unlocked state.

Options include:

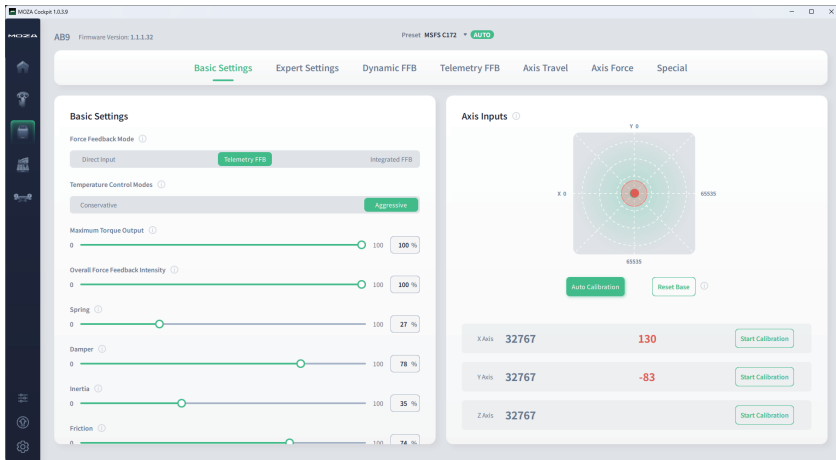
- **Off:** The landing gear light remains off during the transition.
- **Red:** The landing gear light illuminates red during the transition.

### **Flap Switch Long-press Timeout**

Users can adjust the long-press activation time for the flap switch using the Flap Switch Long-press Timeout slider. This setting determines how long the switch must be held up or down to trigger the long-press function. For example, if set to 2 seconds, holding the flap switch down for 2 seconds will activate the long-press action.

## 07 Base Force Feedback Settings

Click the base icon in the sidebar to access the force feedback settings. Here, you can adjust the mechanical parameters and fine-tune the force feedback effects, organized into easy-to-navigate tabs. After making adjustments, save your settings as presets using the Preset Management feature for quick access and future use.



## 08 Base Reset

If you experience issues with force feedback or axis calibration, try resetting the base by clicking the Reset Base button in the interface.

If the issue persists after resetting, please contact customer support for further assistance. Note that the reset process may take a few moments to complete.

## 09 Specifications

Supported Platform: PC

Pitch Travel: 150mm

Roll Range:  $\pm 90^\circ$

Sustained Roll Torque: 9N·m

Max Pitch Force: 210N

Sensor Resolution: 15-bit

Panel Material: Aluminum alloy

Input Voltage: 110V-220V AC, >36V DC

Current Rating: 6A

Power Consumption: 216W

USB Refresh Rate: 1000Hz

Compatible Yokes: MOZA Yoke Series

Connection Ports: USB Type-B, RJ11

Mounting Options: Desktop clamp (optional);

Suspended desktop clamp (optional); Direct

mounting on a simulator cockpit

Desktop Clamp: Optional

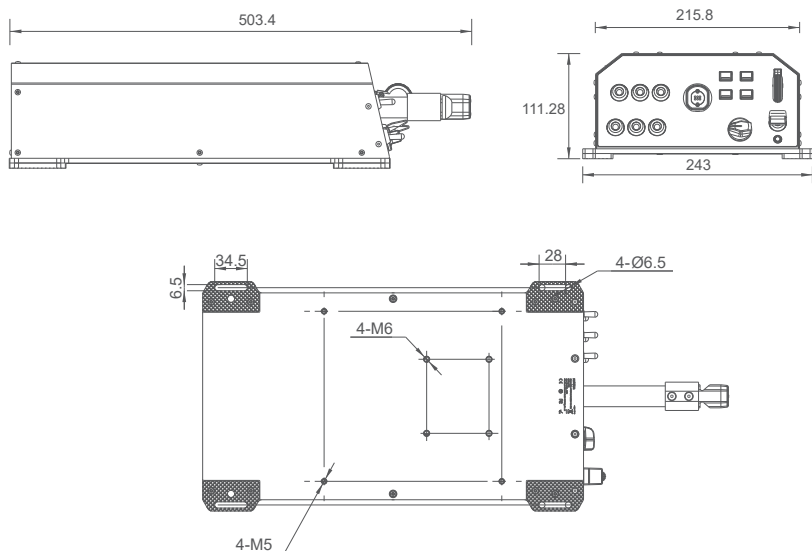
## 10 Precautions

- Do not expose the device to liquids or humidity as it may cause fire or electric shock.
- Avoid using the device in direct sunlight.
- Do not use MOZA flight sim gear with the MOZA racing gear.
- Recommended indoor temperature:  $5^\circ\text{C} \sim 35^\circ\text{C}$ .
- For your safety and well-being, please monitor your gaming time and take breaks as needed.
- The device is not suitable for children under the age of 6, small accessories may pose a choking hazard!
- Children under 13 should have adult supervision.
- It is strictly forbidden to disassemble the equipment by yourself, failure to adhere to this will result in loss of warranty.
- The equipment must be connected with the factory-supplied power supply to ensure the electrical safety and the protection of user rights and interests.
- In order to ensure user safety, parts repair or replacement can only be carried out by officially authorized repair centers.
- Non-standard power supplies are strictly prohibited even if data such as related voltages match.
- Use only AC power provided by a standard wall outlet to avoid damage to the product.
- Do not expose the device to heat sources.
- Unplug the power cord of the device if it will not be used for a long time.
- If you find any abnormality, please stop using it immediately and seek help from MOZA representatives or authorized repair centers.
- Stay tuned to our official website and social media platforms for the latest product updates.

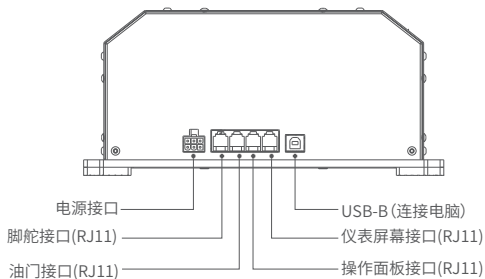
## 01 产品介绍

- MCLS力反馈技术
- 9牛米扭矩, 210牛轴向力
- 铝合金快拆
- 可编程开关面板
- 最长轴向行程150mm
- 高分辨率编码器

## 02 基本参数



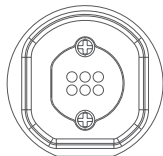
## 03 基座接口介绍



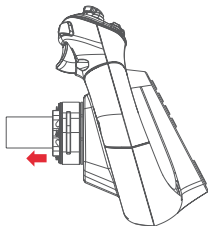
## 04 使用教程

### 1. 安装驾驶盘

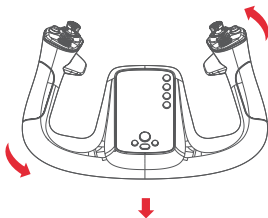
a. 先将MOZA力反馈Yoke基座的连接杆D型头转到如图位置：



b. 按紧MFY驾驶盘后方的快拆把手，将驾驶盘对准连接杆



c. 接入驾驶盘后松开快拆把手，轻微晃动盘体，保证盘体稳固不晃动



d. 连接成功后，开启基座电源，MFY摇杆处的灯光会亮起。

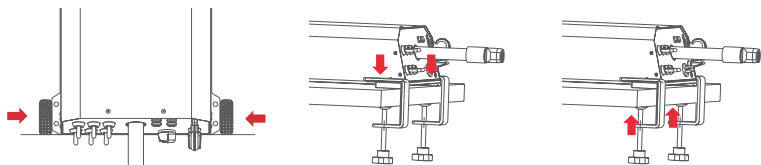
\* 如果连接失败，请检查MFY驾驶盘是否完全紧固地连接在Yoke基座上；  
如无灯光亮起，请进入MOZA Cockpit检查灯光亮度。



## 2. 固定基座

### 桌面夹桌面模式

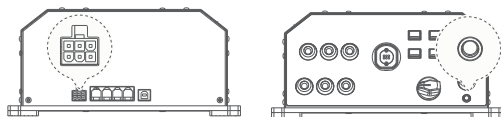
- 将附赠的拓展垫固定在基座两侧的突出块外侧。
- 将桌面夹紧固在MOZA AY210基座两侧的突出块上。
- 拧紧桌面夹的星型螺丝,直到基座和桌面夹均在桌面稳固不晃动。



除了桌面夹安装方式,还可根据突出块的螺丝孔距将基座固定在部分成品模拟支架上。

## 3. 产品使用

- 将电源线插入AY210基座尾部对应接口上,电源线另一端接入220V电源插口,短按开关开机(短按开机,长按关机),若成功连接电源灯快闪。



- 使用附赠的USB线,将Type-B端插入AY210yoke基座尾部对应接口上,另一头Type-A端接入PC,若成功连接电源灯常亮,操作面板灯光亮起。



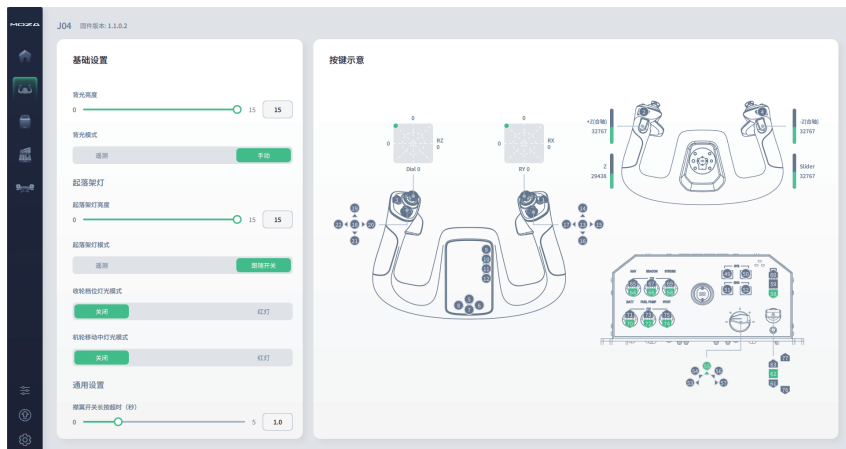
在MOZA官网 ([www.mozaracing.com](http://www.mozaracing.com)) 的帮助中心下载MOZA软件并安装,即可开启您的飞行之旅。更多信息和教学视频请登录官网 ([www.mozaracing.com](http://www.mozaracing.com)) 进行查阅。

## 05 软件介绍

主页面可以查看已连接的设备工作状态, 包含基座, 操纵杆, 油门, 方向舵踏板等, 同时可以快捷启动游戏。



在MOZA Cockpit左侧图标栏中, 选择MFY, 进入驾驶盘设置页面。



## 06 基座功能

### 齿槽转矩标定

用户可以通过界面中的齿槽转矩标定按钮来执行齿槽转矩标定动作。齿槽转矩标定的主要作用是优化齿感和改善驾驶盘自身的平衡性。齿槽转矩标定通常需要一段时间，请在点击标定后稍等片刻，待进度条完成后再进行其他操作。齿槽转矩标定期间，请不要触碰基座，以免影响到标定结果。

### 背光亮度

用户可以通过界面中的滑块来调整基座前面板的灯光亮度。亮度分为0~15档，其中，0档会完全关闭面板灯光。

### 背光模式

用户可以通过选择背光模式来调整基座使用何种方式控制自身面板的灯光强度。如果用户选择：

- 遥测模式：基座会匹配游戏中飞行器驾驶舱内的灯光强度
- 手动模式：基座会根据背光亮度调节滑块中，用户设置的值来调定背光灯的亮度

### 起落架灯

用户可以通过界面中的滑块来调整基座前面板右上方的起落架灯光亮度。亮度分为0~15档，其中，0档会完全关闭面板灯光。起落架灯支持熄灭、红灯，和绿灯三种亮起模式。三种模式的亮度皆通过此起落架灯滑块进行调节。

### 起落架灯模式

用户可以通过选择起落架灯模式来调整基座使用何种方式控制自身面板的灯光强度。如果用户选择：

- 遥测模式：基座会匹配游戏中飞行器驾驶舱内的起落架灯光强度
- 手动模式：基座会根据起落架灯光亮度调节滑块中，用户设置的值来调定起落架灯的亮度

### 收轮档位灯光模式

用户可以通过界面中的起落架收轮档位灯光选择开关，来调节起落架灯在起落架手柄位于UP档位时的灯光颜色。用户可以选择：

- 熄灭：起落架位于UP档位时，起落架灯熄灭
- 红色：起落架位于UP档位时，起落架灯亮红灯

### 机轮移动灯光模式

用户可以通过界面中的起落架移动过程灯光选择开关，来调节起落架灯在起落架处于未锁定状态时的灯光颜色。用户可以选择：

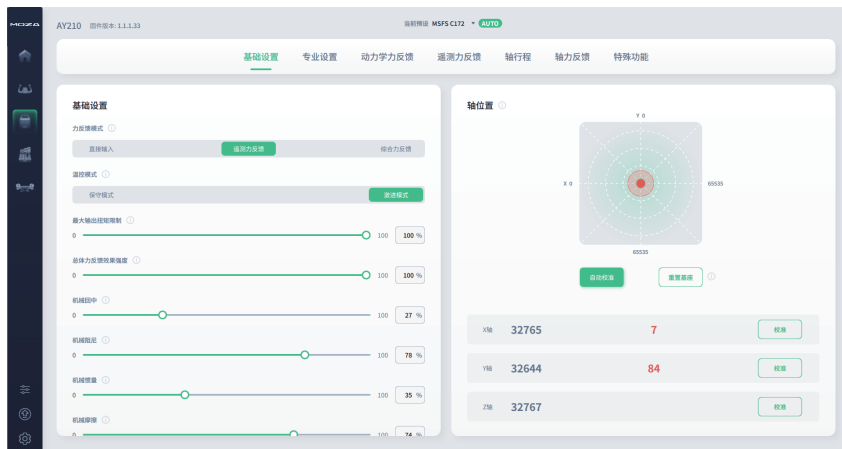
- 熄灭：起落架位于未锁定档位时，起落架灯熄灭
- 红色：起落架位于未锁定档位时，起落架灯亮红灯

### 襟翼开关长按超时设置

用户可以通过界面中的襟翼开关长按超时滑块，来设置向上或向下按下襟翼开关，触发长按按键时所需的秒数。例如，用户将超时时间设置为2秒，那么用户在向下按住襟翼开关2秒后，即可触发对应的长按键位。

## 07 基座力反馈设置

用户可以点击边栏的基座图标,进入基座设置页面。在该页面中,用户可以调整基座的基础力学参数和相关的力反馈效果。不同的效果分布在不同的标签页中。调试完基座后,用户也可以通过预设管理功能将基座的参数存储为预设,方便快速调用。



## 08 基座重置

在使用基座的过程中,如果用户遇到力反馈功能异常,或轴量无法正确校准的情况,建议尝试点击界面上的重置基座按钮,来尝试重置基座。

如果重置基座后,力反馈功能仍未恢复正常,请联系售后服务,以获取进一步帮助。请注意,重置基座可能需要一些时间,请耐心等待。

## 09 规格表

支持平台:PC

基座轴行程:150mm

基座横滚范围:±90°

最大横滚扭矩:9N·m

最大俯仰力度:210N

行程精度:15bit

主体材料:铝合金

额定电压:110V~220V AC>36V DC

额定电流:6A

额定功率:216W

USB刷新率:1000Hz

驾驶盘:MOZA Yoke驾驶盘

接口:USB type-B 电源接口、RJ11 数据接口

固定方式:配合桌上桌面夹和悬挂桌面夹(选配)

分为桌面模式和悬挂模式,亦可配合专业模拟舱支架

## 10 注意事项

- 严禁将设备暴露在雨水以及潮湿的环境中,以避免发生火灾/电击
- 严禁在太阳直射的条件下使用设备
- 严禁接入MOZA赛车模拟器生态产品
- 建议室内温度:5°C ~ 30°C
- 为了您的健康,请合理控制游戏时间
- 设备不适用于6岁以下儿童,小配件可能造成窒息的危险!
- 13岁以下孩童需在家长陪同下使用
- 严禁自行拆解设备,否则将失去质保资格
- 设备必须使用配套出厂的电源进行连接,以保障用电安全及用户权益得到保障
- 为保障相关安全,零部件维修或者更换只能由官方授权维修中心进行
- 即使相关电压等数据匹配,亦禁止使用非标准电源
- 只能使用标准壁式电源插座提供的交流电源以避免对产品造成损坏
- 禁止将设备暴露在热源中
- 长期不使用的情况下,请拔出设备电源线断电
- 如发现有任何异常,请立即停止使用并寻求 MOZA 官方或相关授权中心的帮助
- 请关注 MOZA 官网及公众平台以了解最新的相关产品信息

## 产品保修卡

产品型号		购买日期	
用户姓名		用户电话	
产品条码		通讯地址	

经销商信息(签章)

## 产品保修条例

### 保修期

自购机日起, 基座主体, 方向盘, 踏板和仪表显示屏保修12个月。设备外壳、说明书、线材、螺丝、扳手、包装等不在"一年免费保修服务"范围内, 但您可以选择有偿服务。

购买者在以下条件下不享受免费保修服务, 但您可以选择有偿服务。

1. 超过三包有效期的 ;
2. 无三包凭证及有效发票的, 但能够证明该产品在三包有效期内的除外 ;
3. 包修凭证上的型号与修理产品型号不符或者涂改的 ;
4. 非本公司特约维修人员拆动造成损坏的 ;
5. 因不可抗力造成损坏的 ;
6. 未按产品使用说明书要求使用、维护、保养而造成损坏的。

保修期限鉴于产品部位、不同国家法律法规等差异, 将有所不同。相关国家与区域的保修期限, 请咨询MOZA官方或购买时联系的MOZA授权经销商。



Manufacturer: Shenzhen Gudsen Technology Co., Ltd

Address: Room 1903-1904, Building 3, Nanshan  
ZhiyuanChongwen Park, No. 3370 Liuxian Avenue,  
Nanshan District, Shenzhen China

Web: [www.mozaracing.com](http://www.mozaracing.com)

E-mail: [info@mozaracing.com](mailto:info@mozaracing.com)

Made in China