



FS-GY01

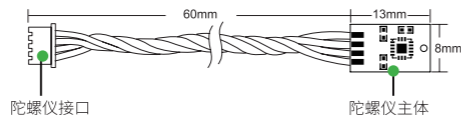
产品说明书

User Manual

产品介绍

- FS-GY01 是一款车用陀螺仪模块，能够根据车辆运动的方向对其进行一定程度偏差修正。它设计小巧精致，易于安装，搭配特定的遥控系统使用实现智能车控功能。

产品概览

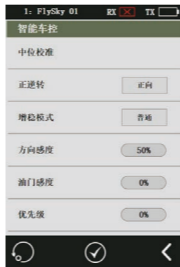


基本参数

- 产品名称: FS-GY01
- 适配接收机: GMr
- 适合机种: 蚊车 / 漂移车
- 数据输入 / 输出接口: 陀螺仪接口
- 输入电源: 3.3V
- 在线更新: 无
- 温度范围: -10°C ~ +60°C
- 湿度范围: 20~95%
- 外形尺寸: 13*8*2mm
- 机身重量: 0.6g

智能车控设置 (NB4 界面)

- 智能车控的功能界面和默认设置，如右图所示；
- 点击界面下方的 / 图标开启或关闭使用该功能；
- 点击“中位校准”进入校准动画界面；
 - “中位校准”用于陀螺仪校准方向和油门中位，使车辆正常行驶时发挥最佳行驶状态。开启智能车控功能前需将车辆的方向舵量，中位微调，油门中位调至最佳行驶状态，完成后打开 S.V.C 进行中位校准。每次改变微调后都将进行中位校准，中位校准过程中方向油门需置中位静止，待完成方可操作。
- 点击“正逆转”，可在“正向 / 反向”中进行切换。
- 点击“增稳模式”，可在“普通 / 锁定”中进行切换；
 - 普通：车辆偏航或转向时，陀螺仪自动根据所产生的角速度大小提供一个相反的补偿控制舵机使其保持稳定或防止甩尾；
 - 锁定：手轮回中保持的情况下，车辆偏航时陀螺仪会根据偏航角度反方向控制舵机使其回到预期方向行驶。
- 点击“方向感度”、“油门感度”、“优先级”界面下方显示的 +/- 符号设置，设置值范围均为 0%-100%；
- “优先级”用于设置车辆转向时，手轮控制与陀螺仪间的控制比例，即转弯半径。当转动方向手轮转弯时，受陀螺仪混控影响会降低转向角度，当数值为 0% 时混控力度最大，即转弯半径最大，当数值为 100% 时混控力度为 0，转弯半径最小。



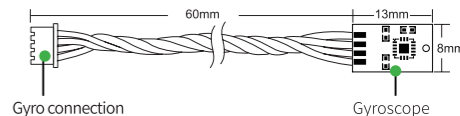
注意事项

- 请不要暴力损坏物品；
- 本产品自带 3M 双面海绵贴，可用于粘贴本陀螺仪和车体起到固定维稳的作用，请妥善保管与使用；
- 请确保取出电池后再进行安装或者取下本陀螺仪的操作；
- 注意将陀螺仪光滑的一面（没有元器件的一面）使用 3M 双面海绵贴与车体进行粘贴；
- 请尽量将本陀螺仪安装在车架后端的中间位置，陀螺仪主体必须与车体保持水平，如果放置在其他位置或者安装方向上没有保持水平，可能影响产品的使用效果。

Introduction

- As a gyroscope module for vehicles, FS-GY01 can correct its deviation to a certain extent according to the direction of vehicle movement. It is small and thin in design, easy to install, and equipped with a specific remote control system to implement smart vehicle control function.

Product Overview





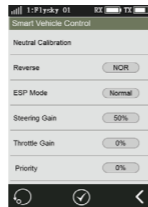
Product Specification

- Product Name: FS-GY01
- Compatible Receiver: GMr
- Model Type: Mini Car/Drift Car
- Data Input/Output Connection: Gyro connection
- Power Input: 3.3V
- Update Online: No
- Operating Temperature Range: -10°C ~ +60°C
- Humidity Limit: 20~95%
- Dimensions: 13*8*2mm
- Weight: 0.6g



SVC Setting (NB4 Interface)

1. Function interface and default settings of smart vehicle control are shown in the right figure;
2. Click the  /  icon at the bottom of the interface to turn this function on or off;
3. Click "Neutral Calibration" to access the calibration animation interface;
- "Neutral calibration" is used to calibrate the direction and throttle median with the gyroscope, enabling the vehicle to get into the best state when driving normally. Before turning on the smart vehicle control function, it is necessary to fine-tune the steering gear quantity and median of the vehicle, and adjust the throttle median to the best driving state. After that, turn on the SVC to carry out median calibration. Every time the fine adjustment is changed, the median calibration will be carried out. During the median calibration, the handwheel and throttle should be set to their median positions and kept still before the calibration is completed;
4. Click "Reserve" to switch between "Normal/Reverse";
5. Click "ESP Mode" to switch between "Normal/Lock";
 - Normal: When the vehicle yaws or turns, the gyroscope automatically provides an opposite compensation according to the angular velocity generated to control the steering gear to keep it stable or prevent drifting;
 - Lock: When the handwheel returns to and is kept at its median position, the gyroscope will control the steering gear in the



SVC Setting (NB4 Interface)

6. Click the "+/-" symbol settings displayed at the bottom of the "Steering Gain", "Throttle Gain" and "Priority" interfaces, and the setting values range from 0% to 100%;
 - "Priority" is used to set the control ratio (turning radius) between handwheel control and gyroscope when the vehicle turns. When turning the vehicle with the handwheel, the steering angle will be reduced under the hybrid gyroscope control. When the value is 0%, the hybrid force is the largest, that is, the turning radius is the largest. When the value is 100%, the hybrid force is 0 and the turning radius is the smallest.

Attention

- Please don't damage any objects by violence;
- This product comes with 3M Double coated foam tape, which can be used to stick the gyroscope and car chassis for fixing and stabilizing. Please keep and use it properly;
- Please make sure to install or remove the gyroscope after unplugging the battery;
- Ensure to stick the smooth side of gyroscope (the side without components) onto the car body with 3M Double coated foam tape;
- Please try to install the gyroscope in the middle of the rear end of the chassis. The gyroscope must be mounted on a flat surface on the chassis. If it is mounted at other positions or not kept level in the installation direction, the use of the product may be affected.