

Instruction Manual for GY01-V3

--- Rated Gyro for RC Cars/ Boats ---

AGFRC GY01-V3 drifting steering gyro is a super high performance steering gyro that supports a wide range of needs and is perfect for all levels hobbyists from beginners to high-level competitors. With newly developed circuitry, this gyro offers 2 selectable modes, features EPA setting and supports to use with latest Futaba S.BUS2 protocol. This helps to eliminate any undesired steering shake from gyro operation, helping to detect excessive movement and reducing the chance of unsettling the chassis.

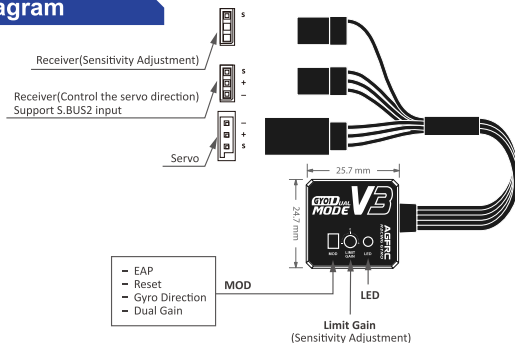
Feature

- CNC aluminum alloy for high efficiency cooling and well-protection
- Reliable and high-performance gyroscope sensor
- Simple and quick installation with compact size
- High voltage 2s Lipo capable
- Easy adjustment with dual gain modes
- EPA feature for matching different scale car models
- Compatible with latest Futaba S.BUS2 protocol
- Perfect for RC Competition Drifting Cars and Boats

Specification

Shell Material	AL6061	Operating Temperature	-10°C ~ +50°C
Weight	10g	Input Signal	PWM (50-333Hz) / SANWA SHR; SSR / FUTABA S.BUS2
Dimension	25.7*24.7*9.5mm	Output Signal	1520uS (50Hz/333Hz) / SANWA SSR
Operating Voltage	3.7 ~ 8.4V	Control System	PID Control System
Current Drain	20mA/6V	Dual Mode Gain	Normal / AVCS Mode

Diagram



LED Status

LED	Status
Red Fast Blink	Gyro Initialization
Yellow Fast Blink	Loss of Control Signal
Green Solid Light	Normal Mode/ Gain Adjusted by Gain Channel(CH3)
Green Slow Blink	Normal Mode/ Gain Adjusted by Potentiometer
Red Solid Light	AVCS Mode / Gain Adjusted by Gain Channel(CH3)
Red Slow Blink	AVCS Mode / Gain Adjusted by Potentiometer
Yellow On for 3 Seconds	Normal / AVCS Mode Setting
Yellow Slow Blink 3 times	Forward and Reverse Gain Setting
Yellow Slow Blink	Travel Setting Mode

Instruction of Function Switch

■ EPA (Travel Setting)

Press the “MOD” switch to power on, yellow LED blinks slowly. Entering to the servo travel setting, rotate the remote control steering wheel to make servo stop at the desired position (turn left / turn right). Short press “MOD” switch, yellow LED blinks 2 times quickly, green LED becomes solid, and red LED blinks slowly, it means current travel has been saved. Then rotate the remote control steering wheel to make the servo stop at the other desired position, short press the switch, yellow LED blinks 2 times quickly, and then the yellow LED turns on, it means current travel has been saved as well. 2 seconds later, the gyro will automatically enter into initialization, once completed, gyro is ready for use.

■ Reset (Travel Restore Default Setting)

Press the “MOD” switch to power on and enter into the travel setting mode. After pressing and holding the switch for 3 seconds, the yellow LED starts to blinks alternately. Restore to default after 2 seconds. Then it will enter into initialization, once initialization is completed, the gyro is ready for use.

■ Gyro Direction (Forward and Reverse Gain Setting)

In normal working status, press and hold the “MOD” switch for 4 seconds, yellow LED blinks slowly 3 times, then switch the gain forward or reverse.

■ Dual Gain Mode Setting (Normal / AVCS Mode)

In normal working conditions, fast press the “MOD” switch 2 times, yellow LED is on lasting for 3 seconds, then switch the mode to Normal or AVCS . **Normal side: Green LED, AVCS side: Red LED**

Receiver Connection (Input Signal Mode)

■ PWM(50-333Hz)

Suitable for most of remote control systems, while plug in the gain wire, it can adjust the sensitivity by transmitter (as pic 1); While do not plug in the gain wire, the gyro's potentiometer can be used for gain adjustment.(as pic 2)

■ FUTABA S.BUS2

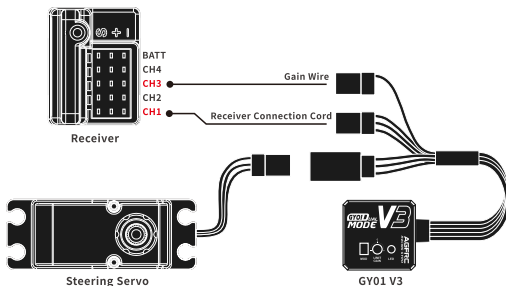
Suitable for FUTABA latest S.BUS2 and S.BUS remote control system. When S.BUS2 signal input is used, default CH3 channel for sensitivity adjustment, and the gyro gain wire is not used.

■ SANWA SSR / SANWA SHR

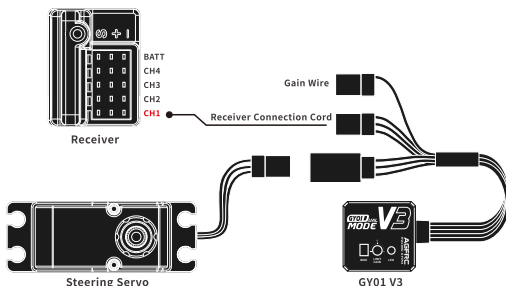
Suitable for SANWA remote control system. When using SSR /SHR signal input, the output signal is automatically adapted to SSR /SHR signal.

Note:

The SANWA SSR signal is only applicable to SSR servos. It may cause permanent damage if using regular servos.



Pic 1



Pic 2

Limit Gain (Gain Adjustment)

■ Adjust the gain via gain channel of the transmitter (default for S.BUS2 input), the range is from -100% ~ 0 ~ +100%.

(a) 0 means sensitivity zero.

(b) -100% / +100% means maximum gain.

■ While do not plug in the gain wire, the gyro's potentiometer can be used for gain adjustment.

