

# GY192 HEAD LOCK GYRO INSTRUCTION MANUAL

## Specifications:

Dimension: 20 x 20x 10mm

Weight: 5.7g with Plastic Case

Operation Voltage: 4.8 V ~ 6.0V

Operation Current: 15mA (5V)

Gyro Gain: Remote / Single Gain

Heading Lock: Remote On/Off



## Features:

- The gyro has been designed for gas and electric powered RC helicopters.
- Dual mode system: Heading lock mode or normal mode
- The gyro can be used with computer radio and/or non-computer 4CH radio.
- The gyro gain can be remotely adjusted with 6CH receiver, with 4CH receiver it needs to adjust the gain on the ground.
- The temperature compensation circuit has been built in the circuit.

## Installation and Set up:

Find the most ideal location in your helicopter to mount the gyro ensuring that an area of minimum vibration is chosen. Attach the double-sided adhesive tape to the bottom or the back of the gyro and mount it in the ideal position of your helicopter. The gyro must be mounted level and the axis of rotation is exactly parallel with the main shaft.

### 4CH Transmitter/Heading Lock Mode

1. Connect the gyro to the rudder channel of the receiver. Disregard the remote gain control wire.
2. Turn the transmitter and receiver powers on and set the rudder trim at the center position.
3. While the LED lights on and the LED color is turning to Blue from Red, do not move the helicopter or the gyro. If you move it, the neutral setting can not be properly done.
4. When the initial setting is completed and check the correct rudder movement during low altitude hovering. If you need to adjust the gain, put the helicopter down on the ground and adjust the gain manually.
5. If the rudder control might still drift one way, put your helicopter down on the ground and adjust the length of the rudder control rod. Check it again during low altitude hovering.

### 6CH Transmitter

1. Connect the gyro to the rudder channel of the gyro and the gain control wire should be connected to AUX channel (signal) of the receiver.
2. While the LED lights on and the LED color is turning to Blue from Red, do not move the helicopter or the gyro. If you move it, the neutral setting can not be properly done.
3. When the initial setting is completed, switch to the heading lock mode and see if the rudder servo

may drift one side during low altitude hovering. If so, adjust the rudder trim on the transmitter. Also, check and adjust the rudder servo movement and neutral position to be the same on the heading lock mode setting and normal mode setting.

4. If the rudder control might still drift one way while the normal mode setting, put the helicopter down on the ground and adjust rudder control rod length.

#### **Remarks and Precautions:**

1. It is very important to observe proper polarity on the connectors and wires. Connect the components as indicated, -/negative, +/positive, s/signal. Reversing the polarity may result in damage of your system.
2. During high-speed flight, if the helicopter shows unusual characteristics, lower the gyro gain immediately until it flies normally. Or just put the helicopter on the ground immediately (4CH transmitter).
3. Always handle the gyro with care when transporting and when operating with RC helicopters.
4. The gyro is a precision piece of electronic equipment and despite featuring a high robust sensor can suffer damage if abused, crashed or mistreated.
5. Do not expose the gyro too strong direct sunlight or heat for too long.