WT8
User Manual
v1.0

Introduction

Thank you for purchasing this Hobbyporter product, please read this user manual carefully before using your item. Please ensure you understand the instructions before operating the device. This product is not suitable for children under 12 years old. Please keep this user manual as a reference for daily maintenance and adjustment of this product.

This product is a professional radio for drone racers. This radio is designed for precision FPV flying. It provides not only the best control experience but also safety. We strongly advice to remove the propellers from your drone before any upgrade or fine tuning. Make sure you DO NOT fly in any crowded areas, around people or animals or while under the influence of any substances.

PAY ATTENTION

⚠ Pay attention to when the radio is switched on or off.
■ When Turning on the radio:
  Keep the throttle stick at the lowest position.

■ When Turning off the radio:
  Ensure the model is powered off first. The model being on without radio input could cause a dangerous situation.

⚠ It could damage the transmitter if use incorrect USB cable.

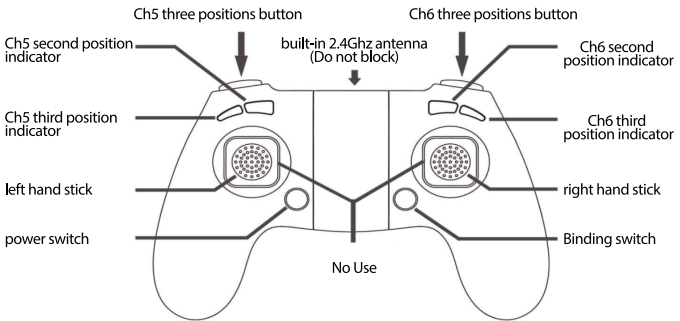⚠ Pay Attention to warning alerts of the radio and the model.
ATTENTION: if any warning alert signal happens on the radio and the plane! Please check your system carefully and do not take off until the problem is resolved. Always disconnect power to the model before turning off the radio.

Specification

Transmitter			
Model	WT8	Transimission	≤100mw (20dbm)
Frequency	2.4GHz	Distance	>1000m (depends on actual situation)
Frequency Hopping	Latest FHSS(64 points,3.6ms)	Working Voltage	4.2-6v(AAA1.5v*4)
Channels	6 channels	Working current	100mA
Resolution	4096	Size	162*110*62MM
Application	Helicopter,fixed wing,multi rotor,robot,car,boat		

Receiver			
Model	WT8S	Working voltage	3.8-6v
Frequency	2.4GHz	Protocol	compatible with Sbus
Frequency Hopping	latest FHSS(64 points, 3.6ms)	Weight	1.2g
Channels	8 channels	Working current	30mA
Resolution	4096	Size	17*11*2MM
Application	helicopter,fixed wing,multi rotor,robot,car		

Specification

Nor/Rev set up
Remarks: every channel Nor/Rev will be sound and LED indicated.
Set up Steps:

1. Turn On: short press the power switch and keep lowest stick	2. Enter set up mode: long press Ch5/6 button simultaneously for 10s	3. Throttle reverse set up:keep the throttle stick at center and lower the stick to reverse the throttle once

Rudder Aileron / Throttle Elevator / Left throttle mode	Rudder Aileron / Throttle Elevator / Left throttle mode	Rudder Aileron / Throttle Elevator / Left throttle mode
4. Aileron, Elevator, Rudder. Move the stick to desired reverse channel	5. Nor/Rev Ch5/6. Long press the desire reverse channel for 1s	6. Cancel Nor/Rev set up, Long press the Ch5/6 for 3s.

Binding

Communication Protocol

Sbus: press the bind key Led on the receiver flash rapidly and turn to solid bright when binding succeed.

Receiver Led status: Sbus signal normal Led bright on, Led off when no signal.

Set up steps:

1. Turn on the radio and press binding switch, enter pairing mode when Led flash rapidly.

2. Turn on the radio, Long press the binding switch by 3s until Blue Led flashes slowly to hear a sound "Beep" then release the button. Blue Led flashes rapidly to enter the pairing mode.

3. Binding is succeeded when the Led flash from rapidly to solid light on. Reboot the receiver. Press binding switch to complete the pairing.

Other features

Turning the Radio on and off

Short press 3 seconds to turn on, Long press 3 seconds to turn off.
Radio will turn off automatically when idle 20s no moving. The radio will recover to normal mode when any action input is made.
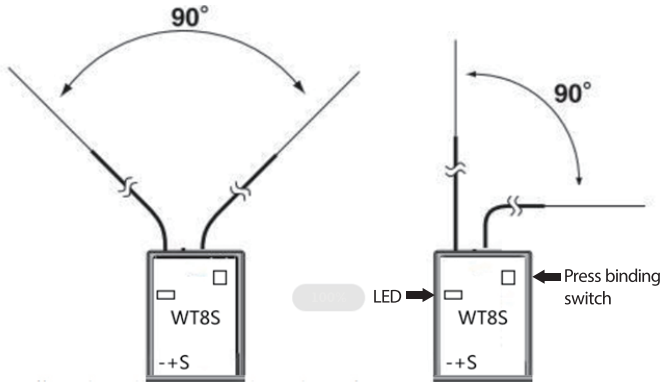
Low Voltage alert on Radio

4.6v second grade alert Beep-Beep-Beep.
4.2v first grade alert Beep-Beep-Beep-Beep.

Receiver

1. Keep the antenna upright or it will lower the range of reception.
2. Keep both antenna in 90 degree angle (Diagram).
3. Carbon fibre and metal components of the model will harmful to the reception of the receiver. Keep the antenna away from carbon and metal for best results and follow the diagram below.

Negative	Negative to ground
Positive	Connect to 5v power
S signal	Sbus output signal