WFLY

Shenzhen WFLY Technology Development Co.,Ltd

ET08 Summary Manual

Scan to add WFLY official Wechat
Enter "ET08 manual" to download the detailed specification!

For after-sale service,
please visit WFLY official website at www.wflysz.com

Safety Items

Beginners should pay particular attention to the following safety precautions! Please read carefully!

No fly when user is in poor health condition such as fatigue and drunkenness.

No fly in bad weather day such as rain, strong wind or at night, etc.

No fly near high voltage wires, communication base stations, government secret zone or public places where crowds gathered.

No fly in airports and other places where fly is forbidden.

Before flying, test the equipment, check whether the transceiver system and the aircraft are normal;

When flying, make the interface of transmitter in the standby interface in case of the parameters changed by mistake;

After flying, turn off the receiver primarily before the transmitter turn off to protect people from rotary of engine or motor caused by fail-safe function

The sequence of power on and off of transmitter and receiver!
*Power on:
Firstly turn on the transmitter (ensuring the minimum position of throttle stick),Secondly Turn on the receiver
*Power off:
Firstly turn off the receiver, Secondly turn off the transmitter.
Use guaranteed and special charger to charge the battery;
Preserve the battery with special case for safety.
The electronic product should be dry, use alcohol and special cleaner to clean.
Do not force the vulnerable antenna, or it may cause destroy.
The screen is vulnerable, do not press hard or scrape with sharp things.
Please take care of the product!
No under sunshine or in high temperature, wet or dusty place.

Charge and attentions:
ET08 is with LiFe 3.7V-6V. RF206S working voltage is 3.8V-6.5V.Charge with others kinds of batteries would damage the transmitter.

Technical Parameters

Transmitter
Model: ET08
Channel: 8 channels
Voltage: 3.7V-6V (1S lithium battery)
Current: 150mA
Applications: Helicopters/airplanes/muti-copters/robots/cars/boats
Resolution: Full channel 4096
Band: 2.4GHz(bidirectional)
HFSS:64points,3.6ms
Storage: 16 groups
Program: 5 program mix
Language: Chinese, English
Upgrade: USB upgrade
Display: 3.5 inches, 128x64 dot matrix screen
Relay Flight: Support
180°/270° servo: Support
Wireless copy: Model data

Receiver
Type: RF206S
Band: 2.4GHz
Voltage: 3.8V-6.5V
Current: 80mA
Frequency: FHSS 4096
PWM: 6 channels
PPM: Support
W.BUS: Compatible S.BUS
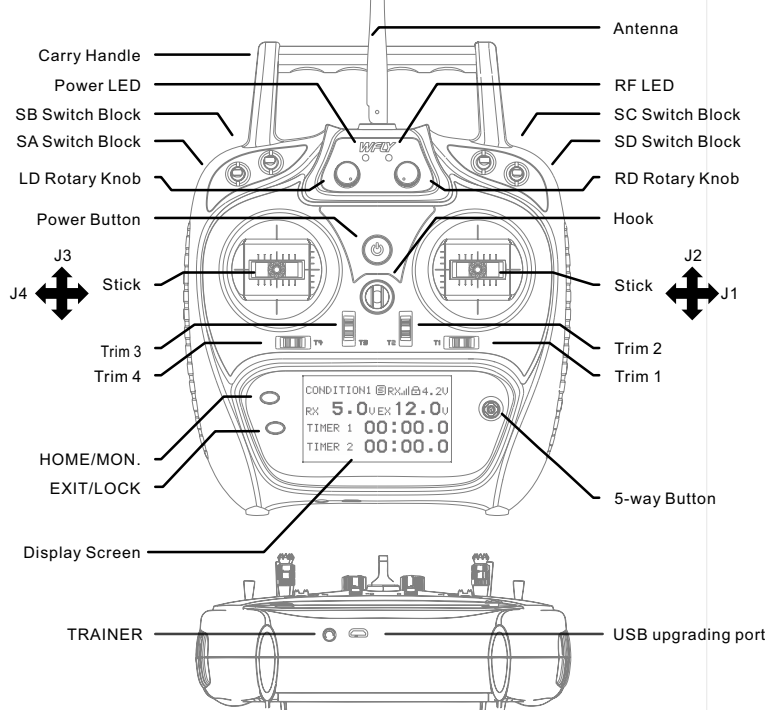Two-way transmission: Support
Fail-safe: Support
180/270° servo: Support
Receiver Port Setting: Support
External Voltage Detection: DC 0~36V
Dimention: 36x20x12mm

PARTS NAME AND FUNCTION INTRODUCTION

- Carry Handle
- Power LED
- SB Switch Block
- SA Switch Block
- LD Rotary Knob
- Power Button
- J3
- J4
- Stick
- Trim 3
- Trim 4
- HOME/MON.
- EXIT/LOCK
- Display Screen
- TRAINER
- Antenna
- RF LED
- SC Switch Block
- SD Switch Block
- RD Rotary Knob
- Hook
- J2
- Stick
- J1
- Trim 2
- Trim 1
- 5-way Button
- USB upgrading port

Power LED: Left, Red
RF LED: Right, Blue

Power Button: Click the power key for 3 seconds to Startup & Shutdown.

SA: 2 positions; alternate; Short lever
SB: 3 positions; alternate; Long lever
SC: 3 positions; alternate; Long lever
SD: 2 positions; alternate; Short lever
LD/RD: Rotary Knob(User-defined)
T1-T4:Trim,(User-defined)
TRAINER:Trainer port

5-way button: Move the cursor button up and down or left and right, middle button for confirmation(Long press to reset).

HOME/MON.: Home/Monitor key, slightly click home, press and hold monitor.

EXIT/LOCK: **Exit/Lock key, slightly click to exist, press and hold to lock the screen.**

MAIN INTERFACE INTRODUCTION

1-20.Timer 1
2.Return data(Receiver voltage)
3.Return data(External battery)
4-5-7-8.Trim monitor, display active trimming status
6."Home2" key, click to enter Home Interface 2
9.Model name: Click to enter model select interface
10.Model type: Click to enter current model type interface
11-21.Timer 2
12.User name, click into user defined name
13.Transmitter battery voltage
14.Lock(Click EXIT/LOCK 2s to enter lock status)
15.Receiver signal strength
16.Student (S), Trainer(T), 8channel simulator(8)mode status
17.Throttle hold (◉) and throttle cut (▣)status
18.Fly mode, current fly mode
19.Return data(Receiver voltage)
22.Return data(External battery voltage)
23."Home interface2","Confirm Key""Return Key" or"Home Key" switch back to "Home Interface 1"
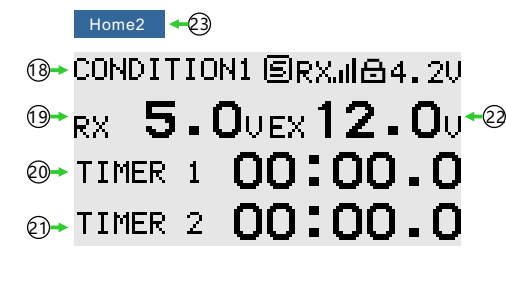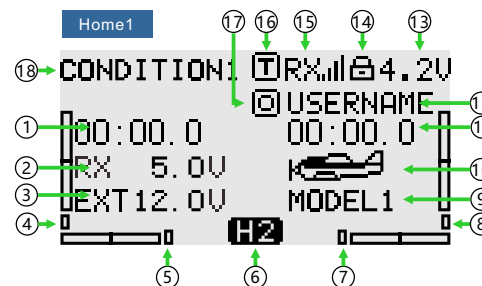
Transmitter LED Status

Power LED on	Power on
Power LED off	Power off
RF LED off	Power off、Student or Simulator mode
RF LED on	Normal Linkage、Trainer or Normal mode
RF LED flash	Enter link status

Shut down and charge	
Power light is on	Charging
Power light off	Full charge

Receiver LED Status List

Working Mode	LED	Action	Status
Work	Purple	Never	PWM normal work mode
	Green	Never	W.BUS normal work mode
	Blue	Never	PPM normal work mode
	Red	Never	No signal
	Red	Slowly flash	Low voltage
	Orange	Slowly flash	Link

Interface And Buzzer Warning

1.Low voltage warning
*Low voltage alarm of transmitter: when the power is lower than the self-defined voltage, the buzzer will ring
*When low power is encountered during use, the buzzer will alarm, and the voltage value at the upper right corner of the display screen (transmitter low voltage) or at the lower left corner (receiver low voltage or external low voltage) will flash

2.Throttle stick position alarm when power on
*When the throttle stick is not at the lowest position, the buzzer will alarm until the throttle stick is at the lowest position.
*Warning interface pop-up prompt, press "CONTINUE" or put the throttle stick to the lowest position, then continue to power on normally!

3.Switch position alarm
When starting, the switch position is not in the default position, the interface will appear (display the corresponding alarm switch), and all switches in the default position will disappear.

4. Shutdown alarm interface
After the telemetry function is turned on, the transmitter will detect whether the receiver communicates or not, and the communication will pop up a warning interface and need to be confirmed before shutdown.

5.Linking
Once finished link, the buzzer alarms once. When linking times out, the buzzer alarms once and link status exits automatically.

6.Warning of trim
When trimming at the midpoint or endpoint, the buzzer will go off.

LINK

When Linking, do not connect the power equipment or dismantle the propeller. Caution!

Setting method:
1.Charge the receiver , press and hold "SET" key for 3 second, the orange light flash.
2.For transmitter, press "start" button to link: [LINKAGE SETTING] → [LINK] → press"start"
3.When successfully linking, the RF light of transmitter is on, the green light of receiver is on (W.BUS mode), or the blue light in on (PPM mode),or the purple light is on (PWM mode).

Cautions:
1.The distance between transmitter and receiver must be near (less than 1 meter).
2.Linking cannot be operated when transmitter is in Simulator, Student mode (System Setting→Trainer);
3.There is no other WFLY 2.4 GHz systems linking nearby.
4.When linking, press 'cancel' or return button to quit if necessary.
5.Connection and validation must be done after linking.
6.Only when the telemetry works during linking status, can the telemetry information be obtained, and shutdown protection is enabled at the same time.
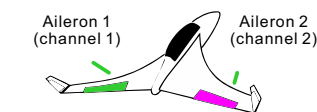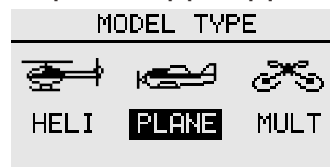
Validation: Connect the servo and operate the remote control,if the corresponding servo has synchronous action output, the link is successful

FAIL-SAFE

The importance of Fail-safe:
Reduce the rate of body injury,UAV crash, lost or explosion when the aircraft lost control.

Advice: Before each debugging or preparation flying, in order to avoid very dangerous conditions such as falling when the throttle is fully open, the fail safe data should be set before other operations.
Set fail-safe data firstly before calibration or flight .

Steps:
1.[LINKAGE SETTING]→ [FAIL SAFE], to enter the F/S interface.
2.Set mode:
HOLD: Hold mode, the receiver outputs the F/S value after fail safe(hold action)
F/S, receiver outputs the set value after fail safe (preset action)
OFF: Shut down the current channel output (only for some special models or some flight-control panel detection ports)
3.Set fail-safe value: F/S value can only be set under F/S mode, click numeric frame for current channel value.

Attention:
For safety, you can refer to following suggestion or consult after-sales service.

The parameter suggested
1.For helicopter, throttle set to lowest value, other channels set as smooth flight mode
2.For airplane/glider,throttle set to lowest or idle down, other channels set as smooth or hovering, because airplane/glider can slip down without power
3.For multicopter,please refer to FC(flight Control) manual.

(Only for suggestion, other settings are based on actual situation)

Model Type

Setting method:[SYSTEM SETTING]→[MODEL TYPE]

Save:Switch the "model type", set the "wing type" and "tail type". Select the "OK" button to save the data, the screen returns to the standby interface. The current (standby interface) model type picture has changed to the modified model.

*The selection of the "flywin" model is as follows:
[MODEL TYPE] - [PLANE] - [FLYWIN] - [NORMAL]

```
MODEL TYPE
HELI   PLANE   MULT
```

```
MODEL TYPE
1 AIL   2 AIL   FLYWIN
```

Aileron 1 (channel 1)   Aileron 2 (channel 2)

```
MODEL TYPE
NORMAL        WINGLE
```

Travel: Aileron 1, aileron 2
*Path: [GENERAL MENU] - [END POINT]

Reverse Setting:Aileron 1, aileron 2 (if the steering angle is in the wrong direction, check the steering gear connection is correct, then proceed to the positive and negative settings)
*Setting path:[GENERAL MENU] - [SERVO REVERSE]

```
MODEL TYPE
PLANE   FLYWIN   NORMAL
                    OK
```
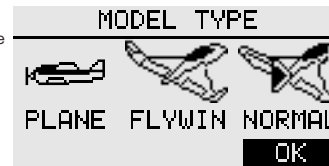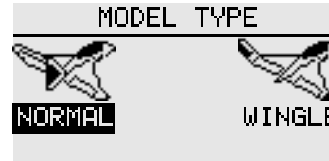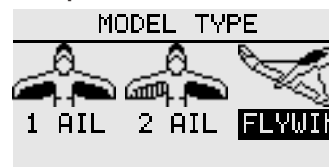
STICK MODE

Provides 4 operating modes, customized operating mode at the [FUNCTION] additionally.
Custom operating mode: You need to modify the definition in [FUNCTION]. After the modification, the [Stick mode] interface mode changes to "User-defined".
([FUNCTION] 1-4 channel stick settings)

Setting method: [SYSTEM SETTING] →[STICK MODE]

Save:
Select (1, 2, 3, 4) mode, there will be a safety prompt for each operation, select "Yes" to save directly.

Note:
Changing the stick mode involves setting the contents of [function] in [GENERAL MENU].

```
STICK MODE
MODE 2
THR            ELE
    RUD   AIL
```