JUMPER-T 14

Simple yet versatile. Tailor-made for FPV.

EDGE TX

Introduction

Thank you for purchasing the Jumper T14 radio system. Please read this instruction manual carefully before use to ensure correct and safe use. Due to version upgrades,there have been changes. The information contained in this manual is subject to change without notice.

Many radio control models are equipped with powerful motors and sharp spinning propellers . Please exercise caution when working on models. Ensure power is disconnected from your models and remove propellers when performing maintenance.
Do not operate the T14 radio system under the following conditions.

- During bad weather or high wind conditions such as rain, hail, snow, storms, or electromagnetic events.
- During any conditions of limited visibility.
- In areas where people, property, powerlines, roads, vehicles or animals may be present.
- If you are feeling tired or unwell or under the influence of drugs or alcohol.
- If the radio or model appears to be damaged or not functioning correctly.
- In areas of high 2.4ghz interference or in locations where the use of 2.4ghz radios is prohibited .
- When the battery is too low to function.

Manual contents

Radio System Overview

DFU Button

USB-C 10W Fast Charging

Trainer Port

Momentary Switch

Latching Switch

Reserved Antenna DIY Port

Foldable Handle

Adjustable and Foldable Antenna

3 Positions Switch

3 Positions Switch

2 Positions Switch

2 Positions Switch

Standard JR module Compartment

S1 Dial

S2 Dial

Power Button

VS-M Gimbal

VS-M Gimbal

External Cooling Fan

Trim Button

Status Indicator Light

Trim Button

SYS Button

Strap Loop

Battery Tray

Page Button

Wheel

RTN Button

2.42"OLED Screen

Note: In order to prevent T14 from entering DFU mode during charging and to reduce the probability of firmware loss during charging, T14 is equipped with a separate Boot0 button. To enter DFU mode, shut down the radio, press and hold the Boot0 button, and then connect the USB cable.

First Boot:

Long press the power button. Before entering the main interface, the system will check the position of the throttle stick and switch and other startup conditions. If the startup conditions are not met, there will be a corresponding error prompt. The user needs to clear or press any key to skip.
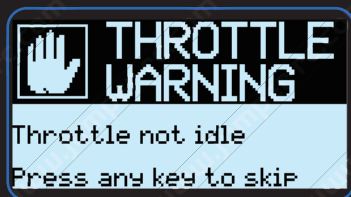

EEprom Warning:

Bad EEprom data. Press any key to let the radio automatically format and storage to create new remote control data files.

Switch Warning:

This is a warning that a switch on the radio -control is not in the default position. (The default setting is that all switch directions are up)

Throttle Warning:

This is a warning that the throttle is not at the lowest position when the radio is turned on. You can set the throttle stick to the lowest position or press any key to skip. You can also turn off the throttle state option in the MODEL SETUP menu.

Failsafe Not Set Warning:

This is a warning that the radio- control is not set for fail-safe.

Alarms Warning:

A similar warning will appear if the sound mode of the remote control settings page is set to mute.
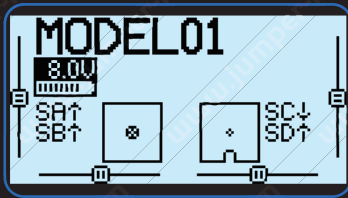
SD card Warning:

This warning will appear if the version of the SD card file used does not match the firmware version. (SD card contents also need to be updated at the same time as upgrading firmware)

RSSI Warning:

This is a warning that the Disable alarms are set.

Main Screen Display:

The default screen is as below, and the user can press the (PAGE) key to display different interfaces.

Model Setup and Selection:

In the main interface, press the SYS button to get into the model select menu

The Model Select menu allows the user to select the active model and allows the user to create, copy, move or delete a model. By selecting the "Create model" option, the new model guide (the script required by the guide is in the SD card) will be launched. The user will be leading through the basic control setup, if you choose not to use it, just press RTN Keys to manually set the model.

To create a model, press and hold the ENT key to show the menu, select create model, press ENT
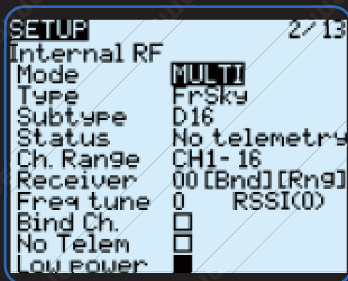
Select model type

Plane   Delta

Multi

With the plane, delta, and multiaxial options, the guide will check with you questions about model configuration. And make basic settings for users. The final step of the guide confirms the channel assignment for the model

MODELSEL free 30183 1/13
```
   Select model
 * Backup model
   Copy model
   Move model
   Delete model
 07
```

If the user prefers manual setup, press RTN to exit the guide. Use the menu wheel to select the one you want to make with the model, long-press the ENT key to select the Select model to switch it.

Binding and Frequency Tunning:

Short press the SYS button, then use the scroll wheel to select 2/13

SETUP   2/13
```
Internal RF
Mode       MULTI
Type       FrSky
Subtype    D16
Status     No telemetry
Ch. Range  CH1- 16
Receiver   00 [Bnd][Rng]
Freq tune  0    RSSI(0)
Bind Ch.   □
No Telem   □
Low power  ■
```
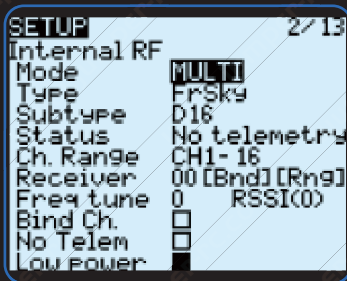
Internal RF:

Mode: The transmission mode of the internal RF. It must be compatible with the receiver. Otherwise, it will not be able to bind.

OFF :   Turn off the internal RF module

Type: Select the type of protocol
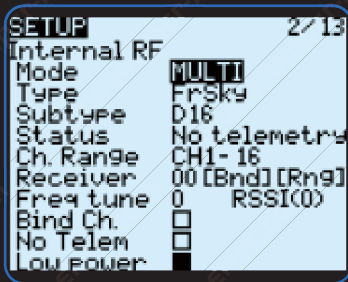
Subtype: Select the subtype of the protocol

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```
SETUP                2/13
Internal RF
Mode        MULTI
Type        FrSky
Subtype     D16
Status      No telemetry
Ch.Range    CH1- 16
Receiver    00[Bnd][Rng]
Freq tune   0    RSSI(0)
Bind Ch.    ☐
No Telem    ☐
Low power   ■
```

Status: Display the status of the multi-protocol module. (Normally it shows the firmware version of the multi-protocol module)

Ch.Range: Set up the channel range. (D16 mode transmits data at every 9ms, 8 channels at a time, 16 channels will take 18ms, so removing unnecessary channels can reduce the latency)

Receiver: Normally it is the receiver model. It can be changed manually. If the model is moved or copied, it will not be changed. If the manual setting or copy/move steps cause the receiver with the same number to have 2 or more models, a warning window will pop up. It is up to the user to decide whether it needs to be modified

```
SETUP                    2/13
Internal RF
Mode        MULTI
Type        FrSky
Subtype     D16
Status      No telemetry
Ch. Range   CH1- 16
Receiver    00 [Bnd] [Rng]
Freq tune   0    RSSI(0)
Bind Ch.    ☐
No Telem    ☐
Low power   ■
```

Freqtune: Frequency tuning. Certain protocols require tuning for optimal performance. In some cases, tuning is required in order for the protocol to bind. Frequency Tuning is specific to each MULTI-Module, and is due to very small variations in the RF components.

Frequency Tuning is always recommended, but especially when:

1.It is difficult to bind to the receiver, or the connection is weak or intermittent

2.The control range is very short

3.Telemetry data is not received or (for telemetry-enabled receivers only)

Completing the Frequency Tuning Procedure ensures that the radio and receiver will have the strongest possible connection. If you change the frequency tuning value it is best to re-bind the receiver(s)

```
Internal RF
Mode      MULTI
Type      FrSky
Subtype   D16
Status    No telemetry
Ch. Range CH1- 16
Receiver  00[Bnd][Rng]
Freq tune 0    RSSI(0)
Bind Ch.  □
No Telem  □
Low power ■
```

The default value of Freqtune is "0". If the receiver does not bind, we can change the value to either +30 or -30 and try to bind again. If binding is still unsuccessful, continue to try higher and lower values in steps of plus or minus 30 until the bind succeeds.

Once the receiver is bound you can proceed with Fine Tuning. After the binding succeeds, kkeep the receiver 2 meters away from the radio and don't move any of them.

Return to the RF Freq. fine-tune option. Lower the value until the radio loses the connection with the receiver. Record the value (TUNE_MIN). Raise the value so that the connection is restored, then continue to raise it until the radio loses the connection with the receiver again.

Record the value (TUNE_MAX). Calculate the median between the two values (TUNE_MIN + TUNE_MAX) / 2 = TUNE_MEDIAN. Set RF Freq. fine-tune to the median value.

For example

Connection is lost at 60 and -60, then the Freqtune number is (-60+60)/2=0

Connection is lost at 20 and -80, then the Freqtune number is (-80+20)/2=30

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