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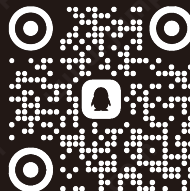
WeChat



Tiktok



Bilibili



QQ

Manual contents

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1. Overview

EdgeTX is an open-source firmware running on the T22. Its main purpose is to support more radio functions, thereby developing all the potential of the remote control. The core of EdgeTX firmware is based on modifications of the Er9x firmware system from the Turnigy/Fly-sky9x™ controllers.

EdgeTX also features USB file management, making it more convenient to manage the remote controller through PC software.

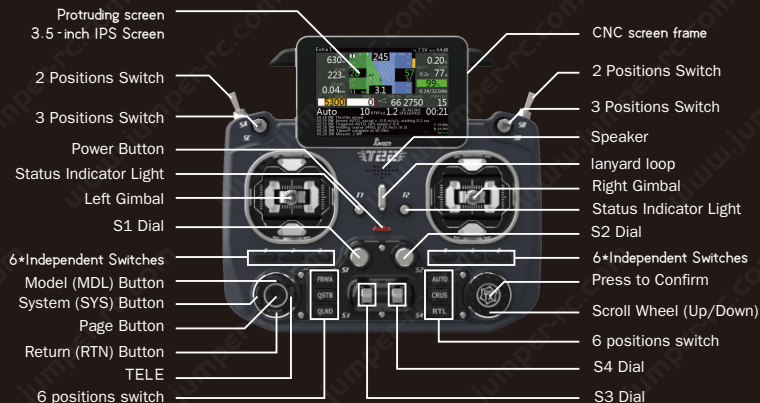
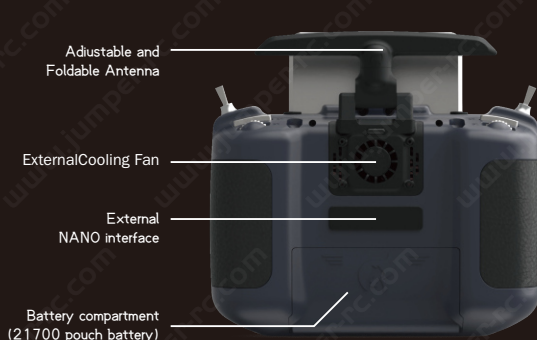
The display of the EdgeTX main interface can be customized as needed, allowing any input, switch, channel data, and timers to be freely combined and displayed on the main screen. Each model can be individually configured.

EdgeTX can connect to flight simulators via a DSC line (PPM) or USB cable (USBHID).

EdgeTX also supports trainer and FPV settings.

EdgeTX is internationalized and has been translated into Chinese (CN), Danish (DA), Hebrew (HE), Japanese (JP), Russian (RU), English (EN), Czech (CZ) Finnish (FI), Dutch (NL), Spanish (ES), French (FR), German (DE), Polish (PL), Italian (IT), Portuguese (PT), and Swedish (SE).

2. Radio System Overview



3. Disclaimer

EdgeTX is experimental firmware. No guarantees or implications are made regarding its quality and reliability of this firmware. Improper operation of RC models may result in serious injury or even death. If you choose to use the EdgeTX firmware, you are fully responsible for your models.

The authors of EdgeTX assume no liability for any injury or damage caused by the use of the firmware. Please use it cautiously.

4. Legal status and copyright

This project is free software: you can redistribute and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. You should have received a copy of the GNU General Public License along with this project. If not, see GNU licenses.

EdgeTX firmware is released in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty Of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

EdgeTX source files can be found at [EdgeTX GitHub](#).

5. First boot

Press and hold the power button to turn on the device. Before entering the main interface, the system will check the positions of the throttle stick and switches, as well as other startup conditions. If the startup conditions are not met, corresponding error prompts will appear, requiring the user to clear them or press any key to skip.



Storage Warning: Incorrect remote controller data.

Update the new SD card files or copy the factory card files. This warning will appear during the first startup. Press any key to let the remote controller automatically create new data files.



Throttle Warning: This warning appears if the throttle is not in the lowest position during startup. Move the throttle stick to the lowest position or press any key to skip. You can also disable the throttle warning in the Pre-start Checks menu under the Model Setup menu.



Switch Warning: This warning appears if the remote controller switches are not in the default positions (default setting is all switches to the back).



Failsafe Not Set Warning: This warning indicates that the failsafe has not been set on the remote controller.



Sound Off Warning: This warning appears if the sound mode in the remote controller settings is set to mute.



Telemetry Alarm Off Warning: This warning appears if the Disable telemetry alarms option is checked in the telemetry page.



SD Card Warning: This warning appears if the SD card file version does not match the firmware version. Update the SD card content when upgrading the firmware.

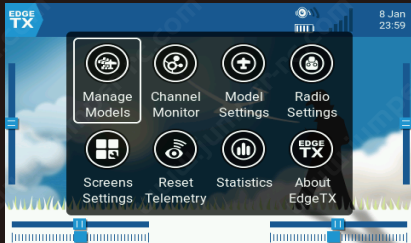
6. Main Interface

The default boot screen is shown below. Users can add the content they need to customize the main interface.



Top Menu Bar: Displays speaker volume, remote controller battery level, receiver signal strength (RSSI), time, and date.

Touch Interface: Click on blank screen areas or press the ENT key to enter the menu.



Menu options include:

Manage Models: Create, switch, delete, and copy models, or add model groups.

Channel Monitor: Displays channel outputs, mix outputs, and logical switch statuses.

Model Settings: Covers all initial setup requirements.

Radio Settings: Configures settings common to all models.

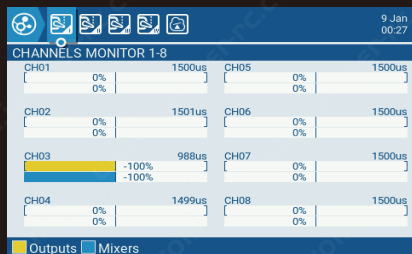
Screens Settings: Allows selection of themes and customization of foreground and background colors. Includes the top bar settings.

Reset Telemetry: Resets timers and telemetry values.

Statistics: Displays statistical information.

About edgeTX: Provides information about the EdgeTX official QR code and system version numbers.

Channel Monitor: Used to display the monitoring interface for channel outputs, mixer outputs, and logical switches.



9 Jan 00:29

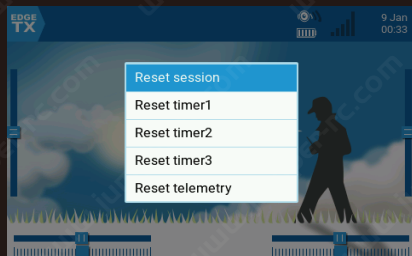
LOGICAL SWITCHES MONITOR

L01	L02	L03	L04	L05	L06	L07	L08
L09	L10	L11	L12	L13	L14	L15	L16
L17	L18	L19	L20	L21	L22	L23	L24
L25	L26	L27	L28	L29	L30	L31	L32
L33	L34	L35	L36	L37	L38	L39	L40
L41	L42	L43	L44	L45	L46	L47	L48
L49	L50	L51	L52	L53	L54	L55	L56
L57	L58	L59	L60	L61	L62	L63	L64

0

You can use the PAGE key to switch between different interfaces, or click on the top icons to switch to the corresponding interface.

The last page is the logical switches page, which can display the status of 64 logical switches. By default, the inactive state is shown in gray, and the active state is shown in black.



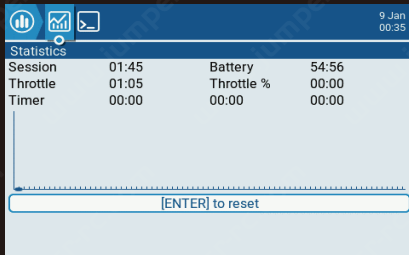
Reset Telemetry: Resets timers and telemetry values.

Reset session: Resets all timers and telemetry values (if there are alarm prompts at startup, they will be displayed again).

Reset timer1,2,3: Resets individual timers.

Reset telemetry: Resets telemetry values.

Statistics: Displays statistical information.



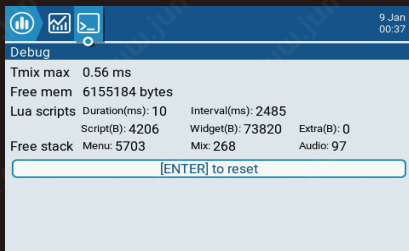
This page displays flight statistics and throttle usage graphs.

Session: Current session time.

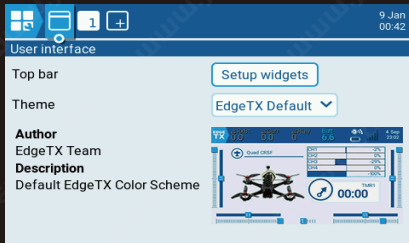
Battery: Time since the last charge.

Throttle, Throttle%: Throttle statistics. The Throttle% indicates the speed of operation based on the throttle setting. The graph shows the throttle channel values over time.

Timers1,2,3: Timer statistics.



Long press the ENT key to reset this page. Press the PAGE key to turn the page.



User interface:

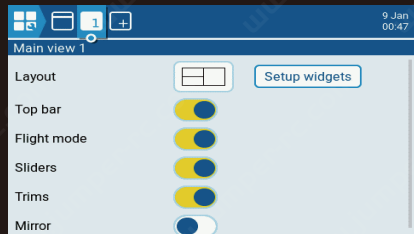
The User Interface options allow for theme selection. This page is also used for setting up the top bar. The top bar is displayed at the top of the main view and includes status indicators on the right side, which show sound, battery, and RSSI levels, as well as the time and date.

Main View:

Up to 10 main views can be defined to display various widgets. These widgets can show images, radio information, and all telemetry data. There are 5 different layout options available, ranging from full screen to a maximum of 8 widget areas.

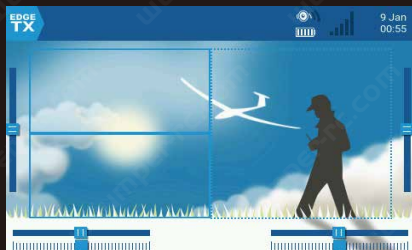
Main View Setup:

Long press the TELE key to enter the telemetry and user interface settings page.



Layout: By default, there are 2 medium-sized widget areas on the left and 1 large area on the right. Use the scroll wheel or touch to select the layout.

Setup widgets: After selecting the main view layout, you can proceed to set up the widgets. Scroll down to "Setup widgets" and press ENT to enter edit mode.



Using the Scroll Wheel to Select and Press ENT:

Press ENT after selecting a region using the scroll wheel. A list of available widgets will pop up, with scroll arrows on the right. Scroll through the options until you find the desired widget, then press ENT to enter edit mode.

Standard Widgets:

Outputs: Displays multiple channel outputs.

First channel: Selects the first channel number to display.

Fill Background?: If selected, fills with background color.

BG Color: Sets the RGB value for the background color.

Value: Displays the value of the source.

Source: Selects the source to display.

Color: Sets the RGB value for the text.

Shadow: Adds shadow to the text.

ModelBmp: Displays the model image set in the "Model Setup" page.

Text: Displays specified text in the widget.

Text: Text to be displayed.

Color: Sets the RGB value for the text.

Size: Determines the size of the text, ranging from Standard, Tiny, Small, Mid to Double.

Shadow: Adds shadow to the text.

Gauge: Displays a bar representing the selected source.

Source: Long press ENT to enter a submenu for selecting input sources by category. Scroll up/down to the desired category and press ENT, it will return to the widget settings page with the cursor on the first item in the selected category. Then, you can scroll up/down from there and press ENT to select the signal source.

Min, Max: Allows setting of the range.

Color: Allows customizing color.

Timer: Displays the timer value.

Timer1/2/3.

BattCheck: Displays battery parameters

Sensor: Selects battery sensor.

Color: Sets the RGB value for the text.

Shadow: Adds shadow to the text.

Counter: Displays a counter.

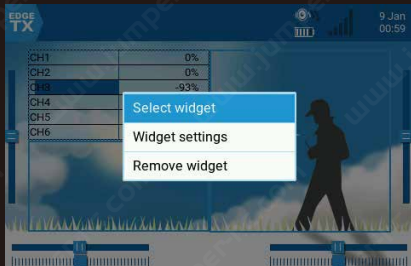
Option 1: Selects the enabled source.

Option 2: Selects XXXX source.

Option 3: Sets the RGB value for the text.

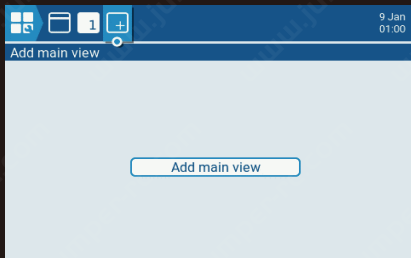
Shadow: Adds shadow to the text.





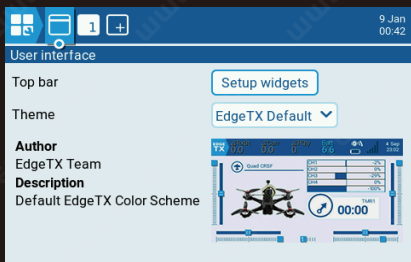
Editing Widgets: After creating a widget, you can edit it using the widget editing menu, accessed as follows:

Long press TELE on the main interface, select Setup widgets, enter the setup interface. Select the widget to edit, then press ENT. If the widget area is empty, the widget selection menu will pop up. If the widget already exists, the widget editing menu will pop up. Long press ENT to bring up the editing submenu.



Adding Additional Main Views:

You can define up to 10 main views. Press the PAGE key to select "Add".



Press the PAGE key to enter the User Interface settings page.

Top Bar: There are 6 small areas available for adding widgets to the Top Bar. Select "Setup widgets" and press ENT to enter setup.

Theme: Select a theme.



Press ENT to enter setup, use the scroll wheel to select the component to be set.

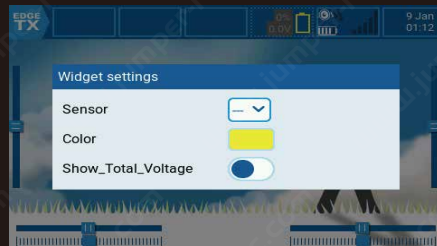
Example of Displaying Battery Voltage on the Main Interface:



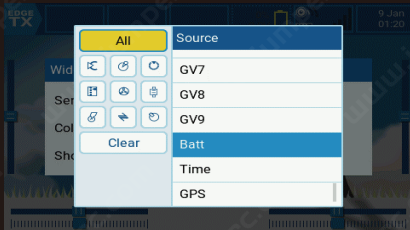
Enter the top widget settings, short press ENT to enter edit mode.



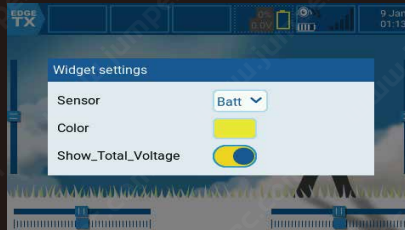
BattAnalog: Select BattAnalog.



Set the Sensor



Select Batt.

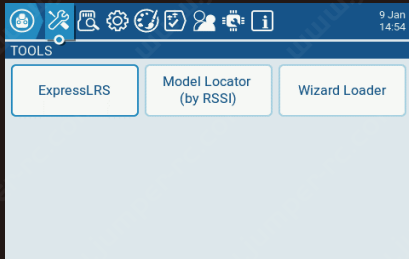


Turn on Show _ Total _ Voltage to display total battery voltage



Then press EXIT to return.

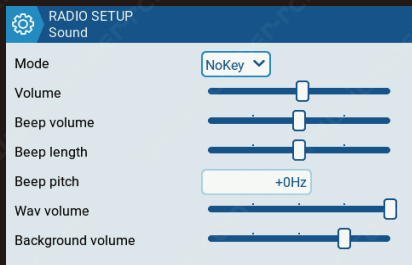
7. TOOLS



In the Radio Settings Tools page, you can select tools based on Lua scripts to execute. Lua scripts located in the Tools folder on the SD card will be listed here. Select a tool to execute it in full-screen mode. EdgeTX comes with multiple tools by default. Additional tools can also be downloaded and added to the SD card.

8. RADIO SETUP

The Radio Setup menu is used to configure the hardware part of the remote controller and set global functions applicable to all models.



RADIO SETUP: Radio settings page for configuring settings common to all models, accessed by long pressing SYS key.

Date: Set the date of the remote controller.

Time: Set the time of the remote controller.

Sound: Volume settings.

Mode

AI: Beep sound and key tone enabled.

NoKey: Beep sound enabled, no key tone.

Alarm: Beep sound only on alarm, e.g., low battery voltage alarm.

Quiet: Silent mode, no alarm sound (setting this mode will show a warning every boot to remind that alarms are disabled)

Volume: Master volume.

Beep volume: Beep volume.

Beep length: Duration of beep sound.

Beep pitch: Pitch of beep sound, range 0-300Hz.

Wav volume: Volume of .wav files.

Background Volume: Volume of background music.

RADIO SETUP
Variometer

Volume

Pitch zero

Pitch max

Repeat zero

Variometer:

Volume:

Pitch at zero:

Pitch at max:

Repeat at zero:

Haptic: Vibration settings

RADIO SETUP
Haptic

Mode

Length

Strength

Mode: Similar to alarm sound settings.

Length: Similar to alarm sound settings.

Strength: Setting the intensity of the vibration.

RADIO SETUP
Alarms

Battery low

Inactivity

Sound off ☐

Check RSSI on shutdown ☐

Alarms: Alarm Settings.

Battery low: Battery voltage alarm.

Inactivity: Alarm for prolonged inactivity. Setting it to 0 will disable the alarm.

Sound off: Check this to disable sound.

Check RSSI on Shutdown: Check to enable this alarm, which triggers if the radio is turned off while the aircraft is still powered on.

Backlight: Backlight Settings



RADIO SETUP
Backlight

Mode: Both

Inactivity timeout: 10s

ON brightness: [Slider bar]

OFF brightness: [Slider bar]

Alarm: [Toggle switch]

Mode:

ON: Backlight is always on.

Both: Backlight turns on with any operation.

Controls: Backlight turns on with any control operation, but not button presses.

Keys: Backlight turns on with any button press.

Inactivity timeout: Time to turn off the backlight after inactivity (in seconds) . Minimum value is 5 seconds, maximum is 600 seconds.

ON brightness: Controls the brightness of the display when on.

OFF brightness: Controls the brightness of the display when off.

Alarm: Backlight flashes when an alarm is active.



RADIO SETUP
GPS

Time zone: 0:00

Adjust RTC: [Toggle switch]

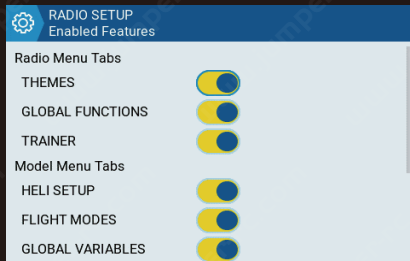
Coordinate format: DMS

GPS:

Time zone: Adjust time according to UTC, can be set between -12 and +12.

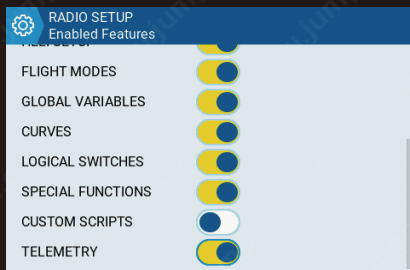
Adjust RTC: If enabled, the radio's time will sync with the GPS time from the model.

Coordinate format: Coordinate format (DMS = Degrees, Minutes, Seconds).

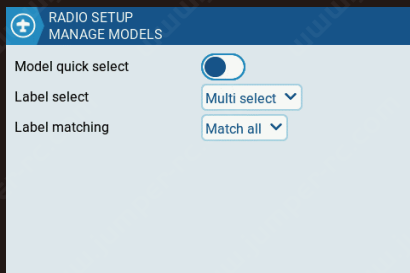


Enabled Features: Feature Switches

You can choose which menus to enable or disable.



Note: Disabling a tab will only hide it and will not change the configured items within that tab.



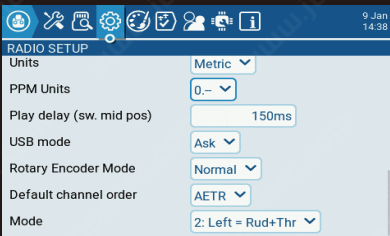
Manage Models:

Model quick select: Affects the model management screen.

These two options require you to first use the scroll wheel or a short press to select the desired model.

When off: A short/long press on the selected model (short/long ENTER) will display a menu where you can "Select Model" to make it active.

When on: A short press (short ENTER) on the selected model will immediately make it active. To activate the menu, long press or long ENTER.



Splash Screen: Display time for the startup screen.

Startup Sound: Enable/disable startup sound.

Pwr Off delay: Delay between pressing the power-off button and the radio turning off. Options: 0s, 1s, 2s, 3s, 4s. It is recommended to set at least a 1-second delay to prevent accidental shutdowns.

Owner ID: Custom registration ID for users with ISRM modules.

Country code: If you live in the USA, Europe, or Japan, you must select your country to ensure the radio complies with local regulations.

Voice language: Language for alarm voice prompts.

Units: Choose whether telemetry values are displayed in Metric or Imperial units.

PPM Units: Accuracy level for displaying PPM values.

Options: 0.- or 0.0

Play delay (sw. mid pos): (Switch middle position) - The minimum time the switch must be in the middle position before activating a special function (in milliseconds). This prevents activating the middle position when moving a three-position switch from low to high.

USB Mode: : Set the default mode when plugging in USB. Options include Joystick, Storage, and Serial. If set to Ask, a menu will pop up to select the mode upon USB insertion.

Rotary Encoder Mode: Default is "Normal." The "Inverted" option can reverse the direction of the scroll wheel.

Default Channel Order: Set the order of the four basic channels (effective for new models created after setting). Default is TAER (channel order for Spektrum/JR). AETR is the channel order for Futaba/Hitec.

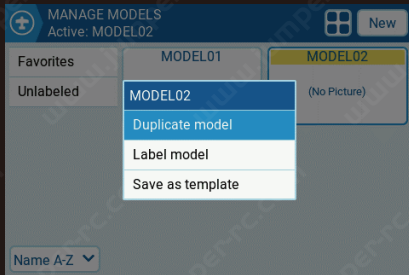
Mode: Set the stick mode of the transmitter (Mode 1 Japanese style, Mode 2 American style).

9. Manage Models

The Manage Models menu allows you to create new models, select the active model, create and apply model labels, and create model templates. Selecting the "New" option will start the New Model Wizard, which guides users through basic control setup. (Since models are stored on the SD card, there is no limit to the number of models you can set.)



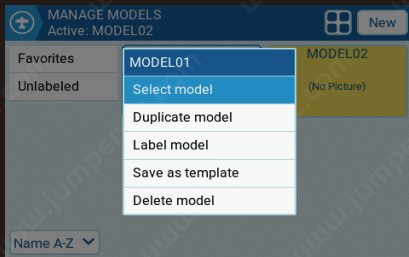
Selecting and Managing Existing Models: The active model's name will be highlighted (in this example, yellow) and displayed at the top of the screen. Double-clicking (or using the scroll wheel to select and press the ENT key) the active model provides the following options:



Duplicate model: Creates an exact copy of the model with the same name. You will need to change the model name or other settings in the model setup tab.

Label Model: Displays all configured labels, allowing you to select labels for this model. More information about model labels is provided below.

Save as template: Saves a copy of the model as a model template. (Changes to the saved template do not update the template itself.)



Double-clicking (or using the scroll wheel to select and press the ENT key) a non-active model (not highlighted) provides the following options:

Select model: Selects the model as the active model.

Duplicate model: Creates an exact copy of the model with the same name. You will need to change the model name or other settings in the model setup tab.

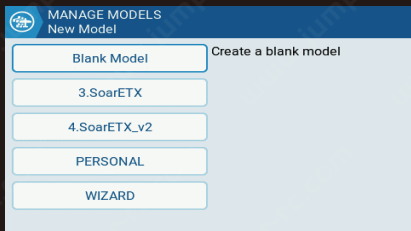
Label Model: Displays all configured labels, allowing you to select labels for this model. More information about model labels is provided below.

Save as template: Saves a copy of the model as a model template. (Changes to the saved template do not update the template itself.)

Delete model: Deletes the model. Only non-active (not currently in use) models can be deleted.



Creating a New Model: To create a new model, select the "New" button in the top right corner. You will then see the following options:



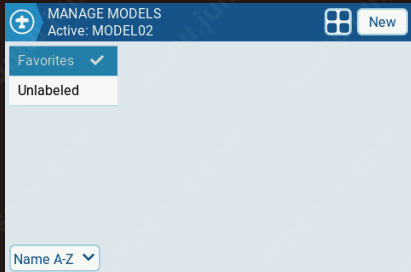
New Model: Choose New Model.

Blank Model: Creates a blank model with only the default options configured.

SoarETX and SoarETXv2: Displays pre-configured model templates for gliders.

PERSONAL: Allows you to choose a saved model template and create its copy as a new model.

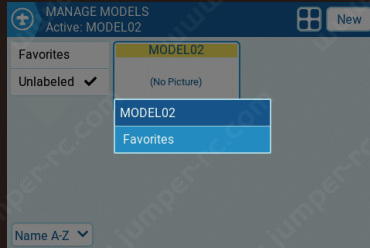
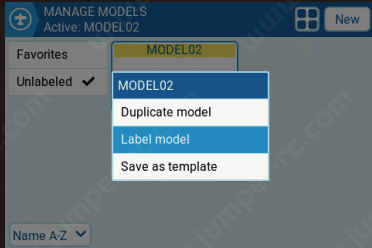
WIZARD: Starts the New Model Wizard and creates a model based on the wizard configuration.



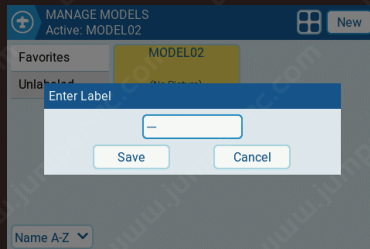
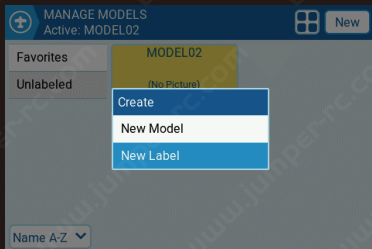
Labels: Model labels allow you to assign one or more labels to each model. You can then filter the models displayed on the Manage Models screen based on your chosen labels. This makes it easier for those with many configured models to find them. By default, "Favorites" and "Unlabeled" labels are automatically created. All models are considered unlabeled until a label is applied to them.



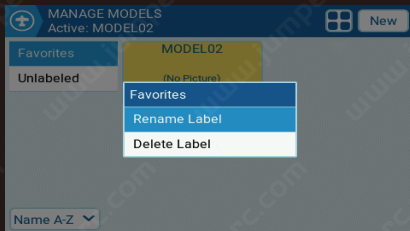
Filtering Models by Labels: To filter visible models based on labels, select one or more filters from the left column. it will automatically filter out models that do not have these labels.



Assigning Labels to Models: To assign labels to a model, double-click the model or press [ENT] after selecting the model, and then choose "Label Models." After selection, all configured labels will be displayed, and you can choose one or more labels for this model.



Creating New Model Labels: To create a new model label, select the "New" button in the top right corner of the screen. A new label popup will appear, allowing you to enter the desired label name. Select "Save" to save the new label.



Editing Model Labels: After selecting the model label you need to change, long press [ENT] or long press the desired label to see a menu with the following options:

Rename Label: Change the label's name.

Delete Label: Remove the label from the list and from all models assigned to it.

Sort Models: The dropdown menu below the label list is used to sort the filtered models. Models can be sorted by:

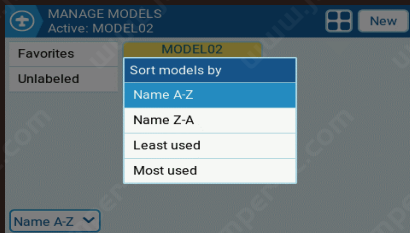
Name A-Z: Model names in alphabetical order (A-Z).

Name Z-A: Model names in reverse alphabetical order (Z-A).

Least Used: Least used models.

Most Used: Most used models.

Choose Model List Layout: Selecting the icon to the left of the "New" button in the top right corner allows you to toggle between four list layouts.



Adjustment instructions for gimbal stick height

- 1 , Remove the gimbal stick ends locking screw.
- 2 , Turning the gimbal stick ends clockwise will shorten the gimbal stick length. Turning it counterclockwise will lengthen the gimbal stick.
- 3 , After adjusting the gimbal stick length, hold the gimbal stick end with your hand and tighten the locking screw.

Warning: The gimbal of the radio controller is a precision device. Excessive force when turning the gimbal stick end may cause the gimbal shaft to come off and become damaged.

Do not turn the gimbal head before removing the locking screw!





**JUMPER
TECHNOLOGY
LIMITED**

We reserve all the right for the final explanation

常州市思慕雪电子有限公司

www.jumper-rc.com

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.