

XT32 TRANSMITTER USER MANUAL



Thank you for purchasing SIYI Technology's product. XT32 is a professional, intelligent and universal radio transmitting and receiving system, applied with advanced SHTT digital frequency hopping technology. To maintain a safe and orderly public space and to ensure you a good using experience of XT32 transmitter, please read this manual carefully. If you have any issue using the product, please consult the manual or check online pages of XT32 on SIYI Technology's official website (<http://www.siyi.biz>). You can also inquire our after-sale service coordinator (support@siyi.biz).

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1 READ TIPS

1.1 Icon Definition

Please pay more attention to content indicated with the following marks:

 **DANGER** Dangerous manipulation probably leads to human injuries.

 **WARNING** Warnings on manipulation possibly leads to human injuries.

 **CAUTION** Cautions on manipulation may lead to property loss.

 **Prohibited**  **Mandatory**  **Mark**

1.2 Flight Safety

XT32 transmitting and receiving system is designed for professional application in specific industries, users who approaches to the device should have at least basic ability manipulating it. Any irregular or irresponsible manipulations of the device may cause damages and lead to property loss or human injuries. Non-adult users must follow their trainer's guidance or adults' supervision. Disassembling or modification on XT32 transmitter is prohibited without a permission from SIYI Technology.

To maintain a safe and orderly public space and to ensure you a good using experience of SIYI's product, please read the prohibited and mandatory carefully:

 Do not use XT32 transmitter to control aircraft in places of intensive crowd (squares, parks), places of many obstructions (streets, parking lots), fields of strong magnetic or interference (power/radar stations, railways) or any other fields that may cause property loss or human injuries.

 Do not hold or cover transmitter antenna or obstruct transmission by any means in a flight.

 Do not point directly to aircraft with antennas' upper end in a flight.

 Do not fly aircraft when you are tired, drunk, sickness or in any occasions that not feeling good.

 Do not fly aircraft when there is a rain, strong wind or at night.

 Do not power off transmitter in a flight while aircraft engine and motors are still working.

 Keep aircraft within sight range in a flight.

 Make sure XT32 transmitter's screen menu is returned to system menu before taking off a flight, in case of any accidents caused by mistouching system settings.

 Do not forget to check transmitter and receiver battery level before flying an aircraft.

 Power off aircraft first, then transmitter, when a flight is over.

 Before doing any settings or adjustment on transmitter, make sure aircraft engine is powered off and motor wires are off connection, in case of switching on accidentally.

-  Before fly aircraft for the first time, make sure that the Fail-safe function preprogrammed in XT32 transmitter is activated.
-  Before fly aircraft for the first time, power on transmitter first and hold throttle joystick at its bottom position, then power on aircraft.

1.3 Precautions on Charging XT32 Transmitter

XT32 transmitter is equipped with a built-in Li-Po 1S rechargeable battery, compatible with standard USB chargers (5V/2A output) in market.

Considering there are many different types of chargers, please read the prohibited and mandatory carefully before charging XT32 transmitter.

-  Do not use USB chargers over 5V output to charge XT32 transmitter.
-  Make sure XT32 transmitter is powered off before charging, charging current should not exceed 2A.
-  Stop charging if you find charger damaged, broken or overheated.
-  Stop charging if you sense a peculiar smell, smoke or leak, and sent transmitter back to SIYI Technology for detection and testing.
-  Do not charge XT32 transmitter when the temperature is over 60°C.

DANGER

Keep it away from places that a baby or a kid may reach while you are charging XT32 transmitter, and better if there were supervision in case of accidents.

1.4 Precautions on Using SD Card

-  Do not disassemble, bend, press, abandon or damage SD card by any means.
-  Stop using the SD card if you find it soaked by water, oil or other chemical liquid.

CAUTION

SD card is also an electronic product, keep it from static electricity.

Micro-SD card slot clean in case of blocking by sand or dirt.

Keep SD card in slot while you are downloading or uploading data; taking it out mistakenly, hitting or shattering it may cause damage or data loss.

Keep SD card away from places that a baby or a kid may reach in case of swallowing mistakenly.

1.5 Precautions on Storage/Carrying/Recycling

CAUTION

Keep XT32 transmitter away from places that a baby or a kid may reach when you are placing or storing it.

DANGER

Please avoid placing or storing XT32 transmitter at places below:

Places are extremely hot (above 60°C) or cold (under 20°C);

Places with direct sunshine, too dusty or wet;

Places with an unstable structure or may cause vibration;

Places near steam or other heat sources.

2 PRODUCT INTRODUCTION

2.1 Product Features

Advanced SHTT Spread-spectrum Technology

XT32 transmitting and receiving system applies SIYI Technology's latest bidirectional 2.4GHz spread-spectrum technology named as SHTT (SIYI Hopping Telemetry Technology), the maximum effective transmission distance with stable flight control can be 3km (unobstructed, free of interference). Transmitter and receiver are linked by a unique matching code, enhancing their anti-interference performance beyond and among transmitters, allowing multiple transmitters working in stability synchronously.

Extraordinary Handling & Accurate Manipulating Experience

XT32 transmitter fits user's palm perfectly by applying a fashionably streamlined and compact industrial design, a delicate ergonomics design and even a thoughtful matte silicone pad as additional protection. All these ideas and results enable you to free your mind before taking off a flight.

16-Channel Multi-functional Fast-response Mode

XT32 transmitter's 16 channels support all kinds of model aircrafts including fixed wings, helicopters, gliders, quadcopters and multi-rotors, and other models.

* 5ms fast-response mode

Real-Time Telemetry

In XT32 transmitter monitor it displays real-time telemetry of receiver voltage, aircraft power, transmission strength, GPS module and other multi-sensors.

Voice Broadcast with Vibration Alert

Voice broadcast with vibration alert help users be more concentrate on flight.

High Brightness Colorful LCD Touch Screen, Brand New GUI System

XT32 transmitter's high brightness colorful screen is clearly visible in sunlight. There are no complicated traditional keys and buttons, but a built-in LCD touch screen on transmitter, assisted by a turntable menu in the brand new GUI system. All these revolutionary new features in software and hardware provide a more user-friendly experience on transmitting settings.

Creative 5-dimensional Sub-trim Button

Sub-trim button designs in traditional transmitters have been overturned in XT32, now you are able to do quick adjustment between sub-trim buttons and joysticks in a flight. The sub-trim buttons are made of metal feeling materials, along with the unity industrial design, bring you an extraordinary manipulating experience.

Fulfils the Requirement of Complicated Models or Robots

- In default, XT32 transmitter can save 64 sets of model data, the amount can be extended without a limit if necessary.

- Powerful programmable mixing control supports various customized linear mixing and curve mixing.
- Adjustable rate, editable throttle curve and pitch curve make complicate control easy to finish.
- Data copy function provides convenience for users on sharing transmitter settings with friends.
- Trainer mode support two transmitters working together, one for trainer, another for trainee. In trainer mode there are various protection, for instance trainer transmitter can take control of flight from trainee transmitter through one switch.
- Channel mapping function supports customize channel definition; Fail-safe function provides more security to flight safety.

Extensible Ports

XT32 transmitter opens its ports to support SDK and other external hardware devices. SIYI Technology proudly invites all users to develop the ultimate potential of our transmitters.

- Bluetooth - Adjust transmitter settings on mobile devices
- WIFI - Adjust transmitter settings on mobile devices; Image transmission
- Datalink - Transmission with datalink and ground station
- GPS - Intelligent flight: locate aircraft, flight routine
- 4G - BVR (beyond visual range) control
- Serial Port Transmission – Upgrade receiver firmware

*More new functions will be available in the future

Built-in High Capacity Li-Po Battery

XT32 transmitter is equipped with a high capacity Li-Po 1S rechargeable battery, reliable and easy to maintain. Through standard Micro-USB port you can charge XT32 transmitter, and it continuously works for more than 12 hours after one time charging. You'll never have to worry about long-time flight in outdoor.

SD Card Data Saving and Extending

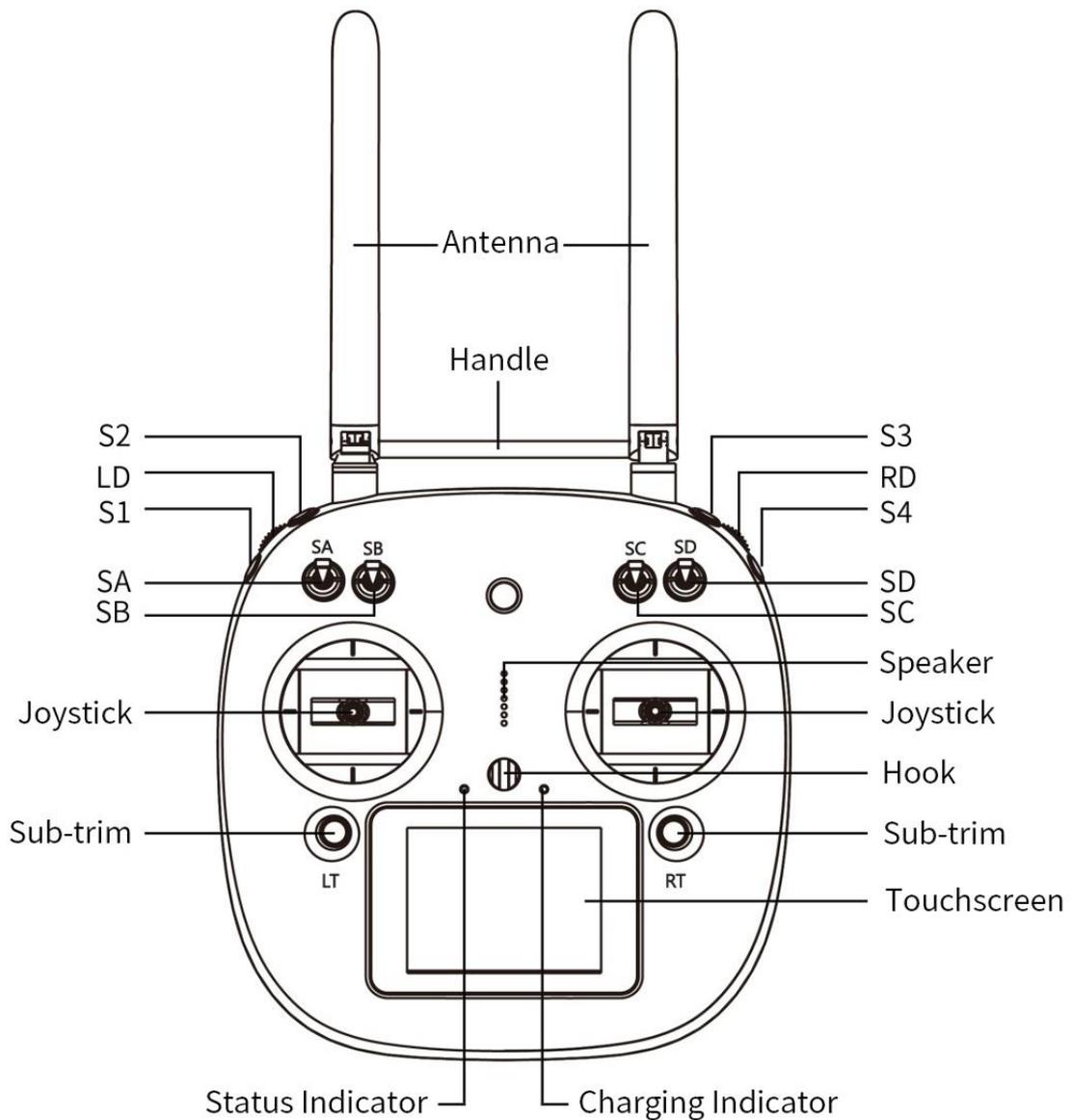
XT32 transmitter supports saving flight data in SD card and extending to new functions from SD card.

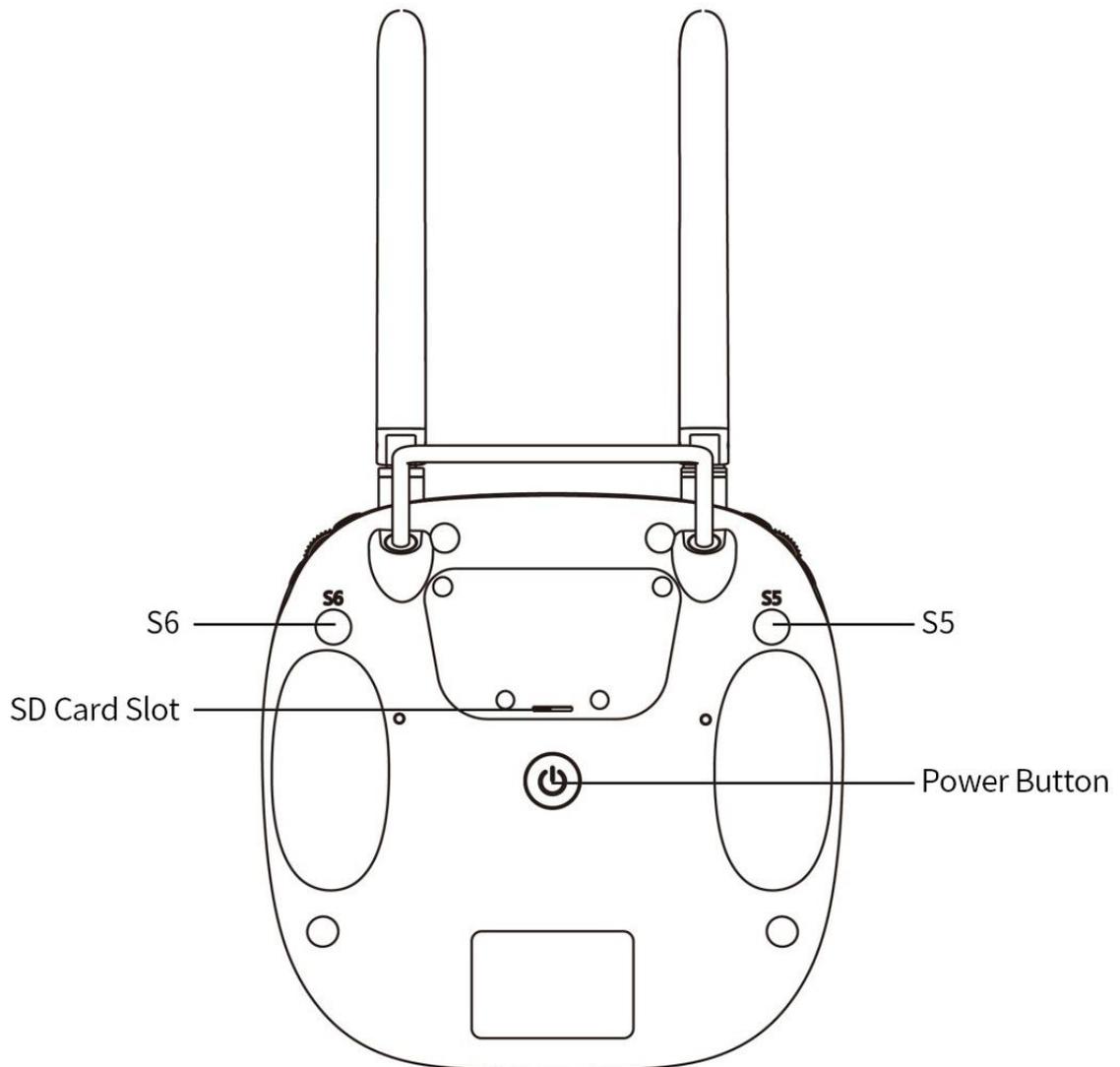
Adjust Transmitter Settings and Upgrade Firmware on PC

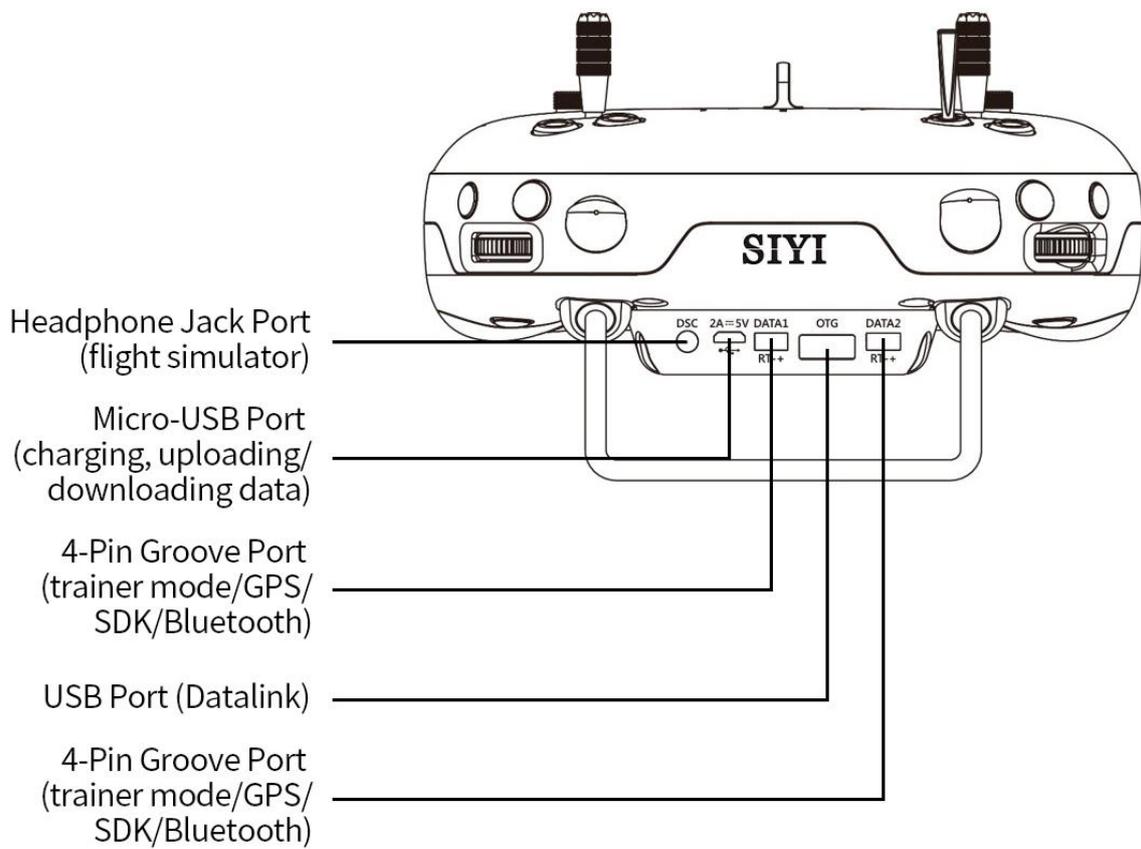
XT32 transmitter supports adjusting system settings and upgrading firmware through PC software "SIYI Assistant". It's an obviously promotion on user experience, and SIYI promises to offer continuous service on updating firmware and other cool features.

2.2 Parts

2.2.1 At a Glance





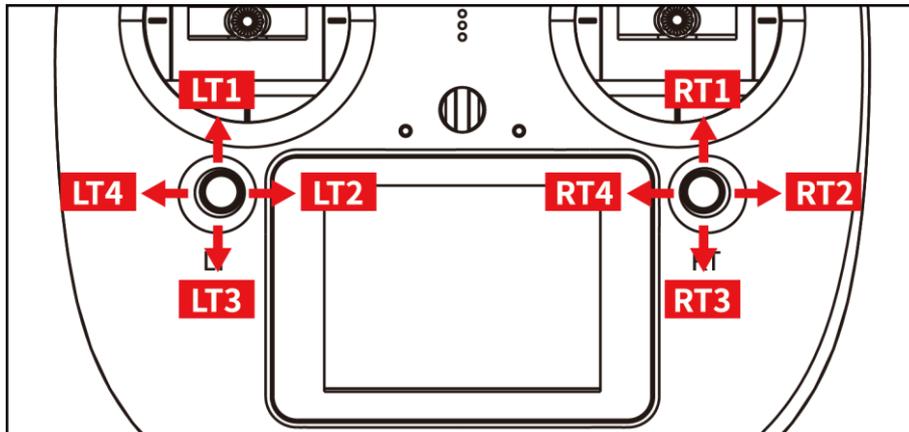


2.2.2 Button/Switch Types

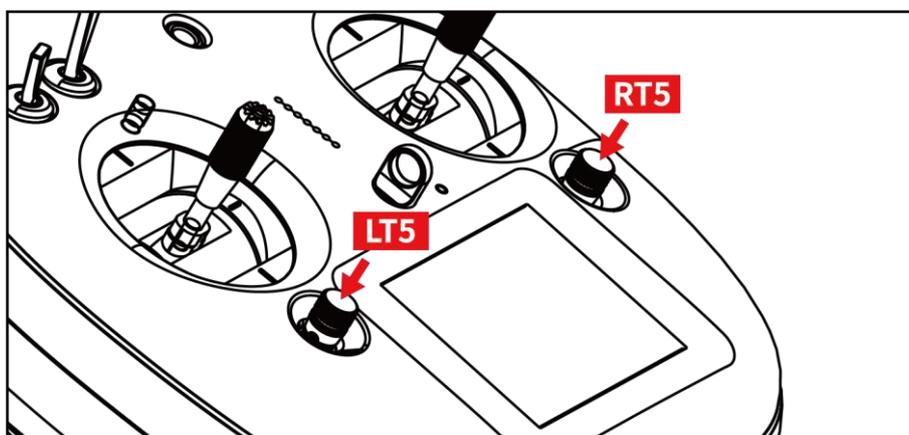
Name	Type
SA	3-stage Switch
SB	3-stage Switch
SC	3-stage Switch
SD	3-stage Switch
LD	Self-centering Dial
RD	Thumb-slide Dial
S1	Self-resetting Button
S2	Self-locking Button
S3	Self-locking Button
S4	Self-resetting Button
S5	Self-resetting Button
S6	Self-resetting Button

 **Mark:** Self-locking button stays in the position you press them to; Self-resetting button rebound to original position after a press.

2.2.3 Sub-trim Button



- There are 2 sub-trim buttons on XT32 transmitter, which support continuous sub-trim on all 4 channels.
- Each sub-trim button has 2 dimensions (up-down, left-right) for direct trim settings to mapped channel.
- Every push on sub-trim button leads to a movement from former position at default stepping value. Keep pushing on sub-trim button will speed up the movement. There will be different alerting sound when sub-trim button is in neutral position.
- Sub-trim position shows as dynamic changes in system menu.



- Sub-trim buttons can also be used to unlock transmitter system menu when transmitter lock is activated. Press and hold left/right sub-trim button to unlock transmitter.

 **Mark:** Please refer to “Sub-trim Settings” menu to adjusting settings of Sub-trim button.

2.3 Technical Specifications

Channels	26 Physical Channels, 16 Receiver Output Channels
Applicable Model	Fixed Wings / Helicopters / Gliders / Quadcopters / Multi-rotors / Vehicles / Boat / Robots
Data Memory	64 sets of transmitter setting data; extensible
Language Display	Chinese / English
Joystick Resolution	4096 grades
Frequency Band	2.4000GHz - 2.4830GHz
Transmitting Power	20 dBm
Receiving Sensibility	-112 dBm
Transmission Distance	Maximum 3000 meters (unobstructed, free of interference)
PC Software	SIYI Assistant

Display Screen	2.8 inch high brightness colorful LCD screen, display resolution: 240x320
Screen Type	Capacitive touch screen
Battery Type	Built-in 3.7V 3000mAh Li-Po 1S battery
Working Current	270 mA
Duration	12 hours
Charging Port	Micro-USB port
Product Dimension	194.5 x 172.5 x 114 mm
Product Weight	610 g

2.4 LED Indicator Definition

On XT32 transmitter, above touch screen there are two LED indicators. The left one is status indicator, the right one is charging indicator.

- Status Indicator: displays transmitter's RF transmitting status.
- Charging Indicator: displays transmitter's charging status.

Status Indicator Definition

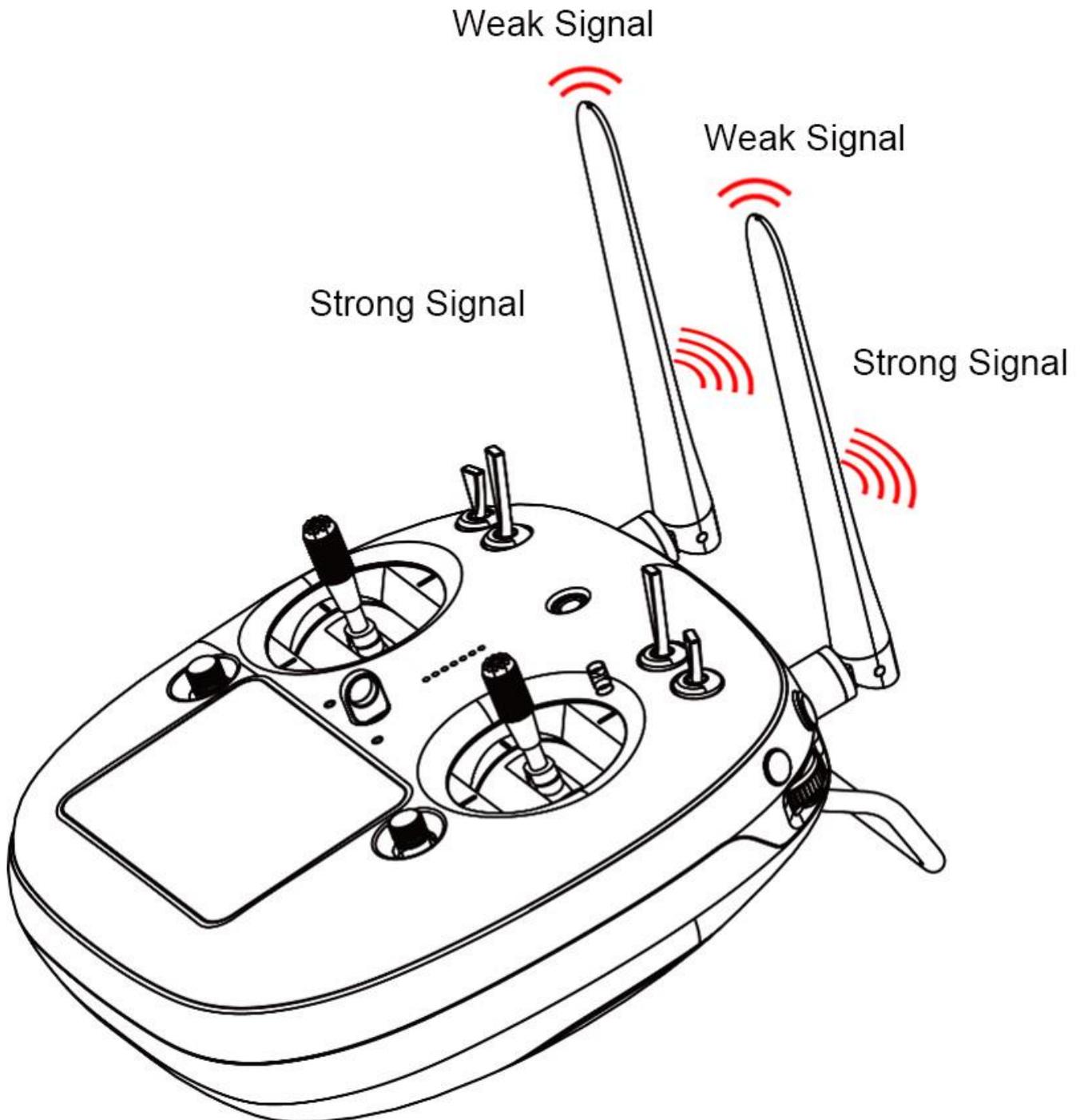
- Solid Red: RF transmitting is off.
- Solid Green: RF transmitting is on.

Charging Indicator Definition

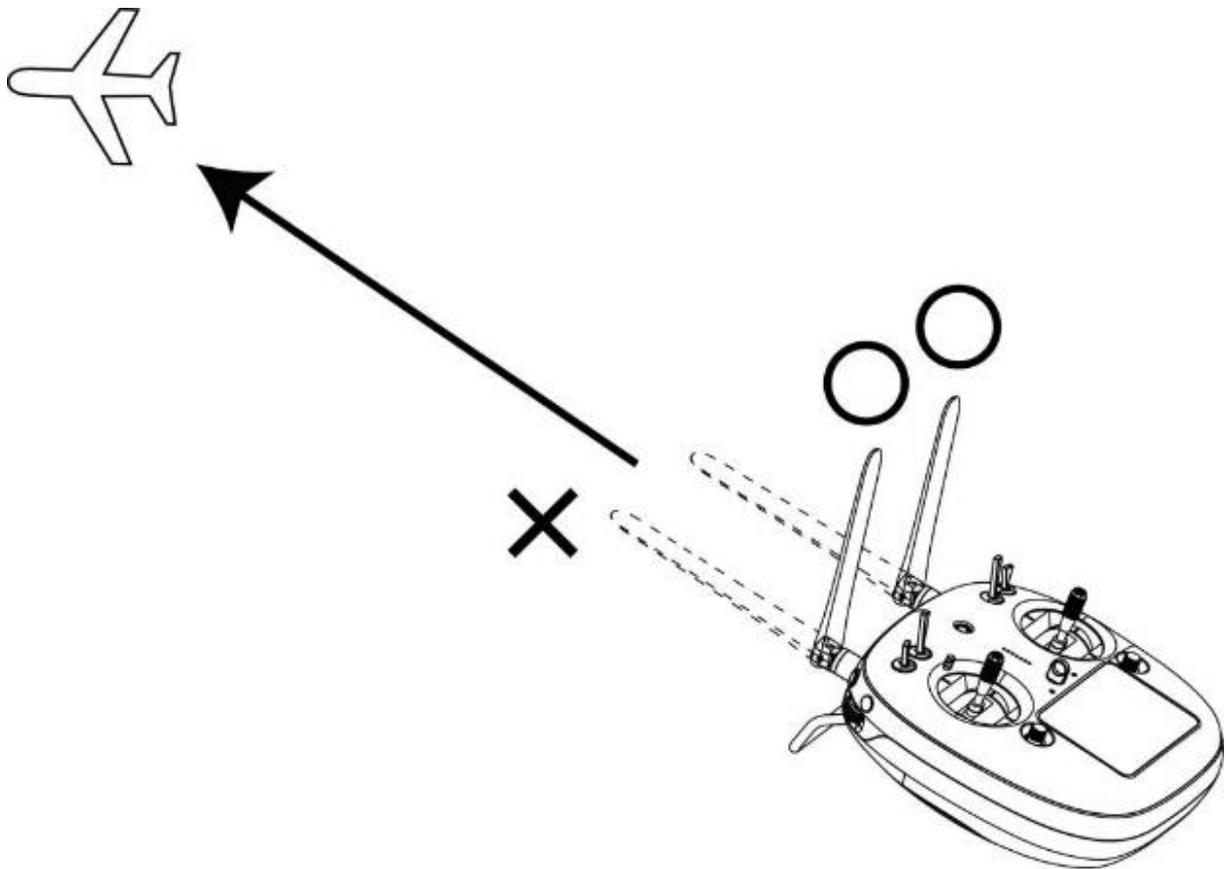
- Solid Red: Transmitter in charging.
- Solid Green: Charging finished.

3 GET READY TO USE XT32

3.1 How to Place Transmitter Antenna Right



XT32 transmitter antennas have the best signal strength when they are placed horizontally. Thus, please avoid pointing antennas' upper end directly to aircraft.



WARNING

Do not fold or cover antennas and avoid any obstruction between transmitter and aircraft in a flight, otherwise there will be an obvious decrease to transmission signal strength.

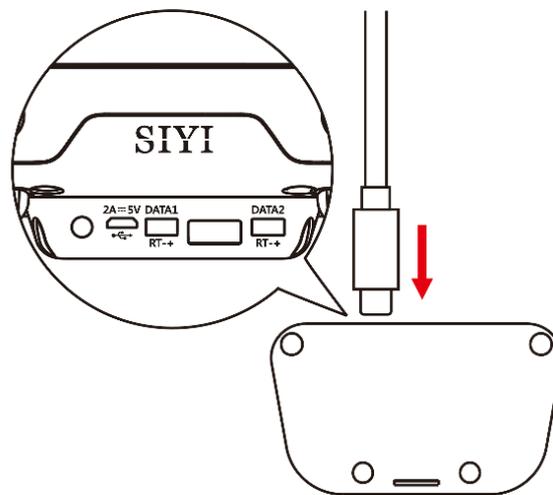
3.2 How to Charge XT32 Transmitter

Before charging XT32 transmitter, please read the part “1 READ TIPS - 1.3 Precautions on Charging XT32 Transmitter” in this manual carefully.

Transmitter charging time is limited by charger' power output. More power charger adapter has, less charging time it is.

Steps to Charge XT32 Transmitter

1. Choose the right charger for XT32 transmitter;



2. Make sure that XT32 transmitter is powered off.
3. Find a Micro-USB cable among accessories coming with XT32 transmitter packaging, connect its Micro-USB end to transmitter's Micro-USB port on the back, USB end to adapter charger;
4. Plug charger into adapted AC power outlet;
5. In charging, transmitter charging indicator is solid red; charging finished, it turns to solid green.

Mark: XT32 transmitter is equipped with a built-in 3000mAh Li-Po 1S battery.

Charging time is generally between 2.5 to 3 hours using a standard 5V/2A adapter charger.

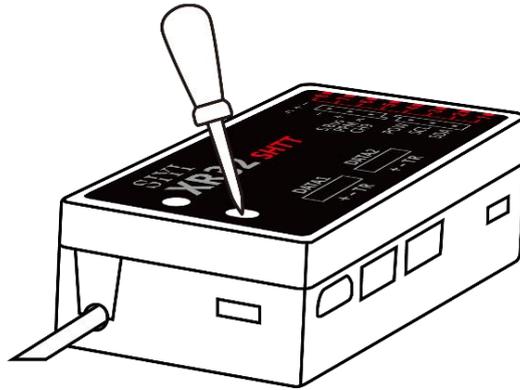
Charging time may be different using charger with different standards, please pay an attention to transmitter charging indicator in charging.

3.3 How to Link XT32 Transmitter to XR32 Receiver

Each unit of XT32 transmitter is assigned with a unique ID code. Before linking XR32 receiver to XT32 transmitter, receiver must identify transmitter ID (**Linking**). After the first linking between transmitter and receiver, the ID code will be memorized in receiver, so that you don't have to repeat linking next time (except if the transmitter was linked with a different receiver after that).

Steps to Link

1. Keep the distance between XT32 transmitter and XR32 receiver within about 1 meter, then power on transmitter;
2. In XT32 transmitter screen menu, tap on "System Settings – General Settings";
3. On XR32 receiver, stick a pin or needle into receiver's linking hole, press and hold linking button for 3 seconds till receiver status indicator blinks red quickly. Receiver now is ready for linking;



- In transmitter “General Settings” menu, tap on “Start Linking” button, and wait for 1 second, when both transmitter status indicator and receiver indicator blink green, linking steps are done.



WARNING

Before linking transmitter to receiver, make sure aircraft engine is powered off and motor wires are off connection.

Reboot receiver when linking steps are done, and try to manipulate on transmitter to confirm if linking is successful.

3.4 Select Transmitter Throttle Joystick Type

XT32 transmitter’s throttle joystick has two types, Thumb-slide and self-centering joystick. Users can select throttle joystick type according to their preferences.

Thumb-slide Joystick: While users are powering on transmitter, it alerts with voice broadcast if throttle joystick is not in its bottom position, and disables RF transmitting automatically (transmitter status indicator is off). Transmitter will not enable RF transmitting until throttle joystick was back in bottom position.

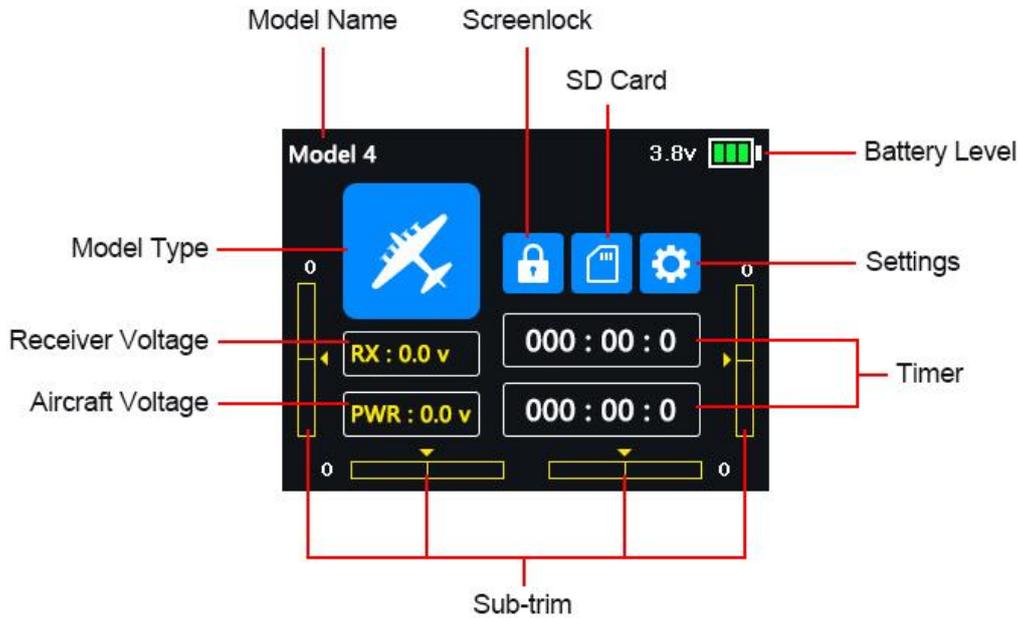
Self-centering Joystick: No alert, transmitter works normally.

Step to Select Transmitter Joystick Type

In transmitter “System Settings” menu, tap on “General Settings”, then tap on “Throttle – Thumb-slide / Self-centering” to select your favorite type.



4 MAIN MENU INTRODUCTION



Model Name: Displays your current model after selecting a set of model data.

Model Type: Displays your current model type after choosing one.

Battery Level: Displays XT32 transmitter's current remaining battery level.

Settings: Tap on the icon to enter "Transmitter Settings" menu.

Receiver Voltage: Displays receiver's current power voltage telemetry.

Aircraft Voltage: Displays aircraft's current power voltage telemetry.

Sub-trim: Displays digital sub-trim value of all 4 channels.

Screen Lock: XT32 Transmitter main menu is locked, touch screen is disabled (the icon disappears when main menu is unlocked).

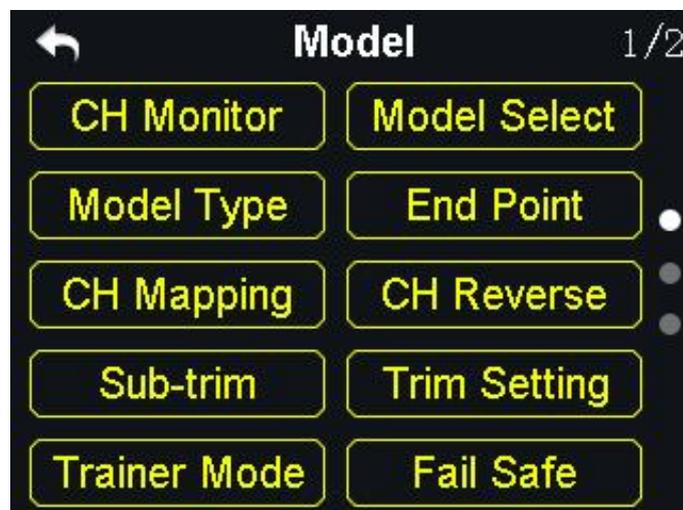
SD Card: SD card is inserted in XT32 transmitter (the icon disappears when SD card is taken out).

Timer: Displays maximum two timers to assist users with their flights.

5 MODEL SETTINGS



In XT32 transmitter's "Model Settings" menu there are a series of transmitter functions, offering basic and advanced settings for different kind of model devices.



General Functions

CH Monitor (Channel Monitor): Display real-time output value of all channels.

Model Select: Select / Save a set of model data.

Model Type: Choose the requiring model type for aircraft.

End Point: Set each channel's output value and the maximum / minimum limit.

CH Mapping (Channel Mapping): Set / Change each channel's function.

CH Reverse (Channel Reverse): Reverse a channel's output direction.

Sub-trim: Do trim adjustment on aircraft's flight attitude.

Trim Setting: Adjust sub-trim function's stepping value.

Trainer Mode: Allows trainers teach their trainees on transmitter.

Fail Safe: Adjust fail safe settings.

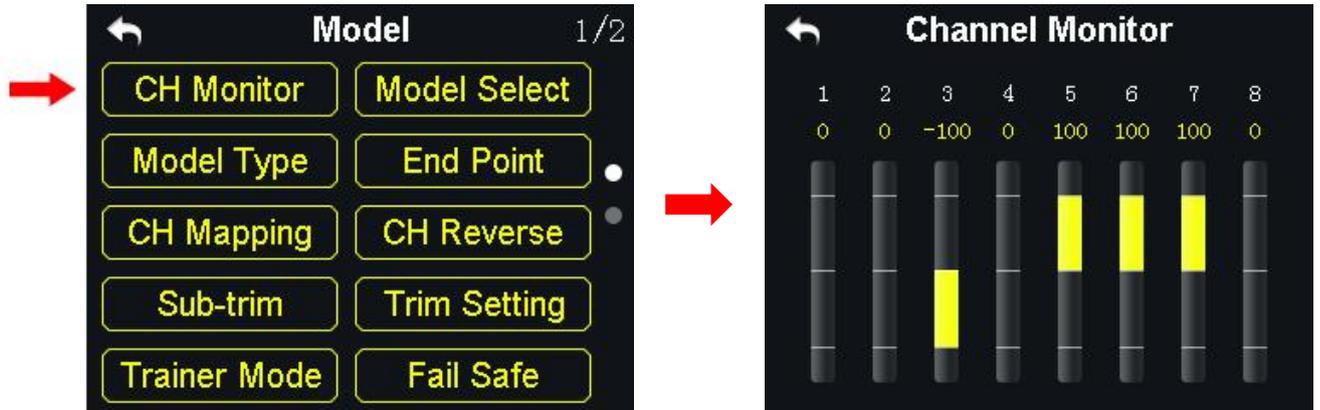
Timer: Turn on / off timer function.

LowVol Alert (Low Voltage Alert): Aircraft low battery alert.

Special Function for Agricultural Drones

Farm. Voice (Farming Voice): Real-time voice broadcast specialized for agricultural drones.

5.1 Servo Monitor



Through servo monitor, users can check output value changing of all 16 channels in real-time after their customized settings on transmitter.

5.2 Model Select



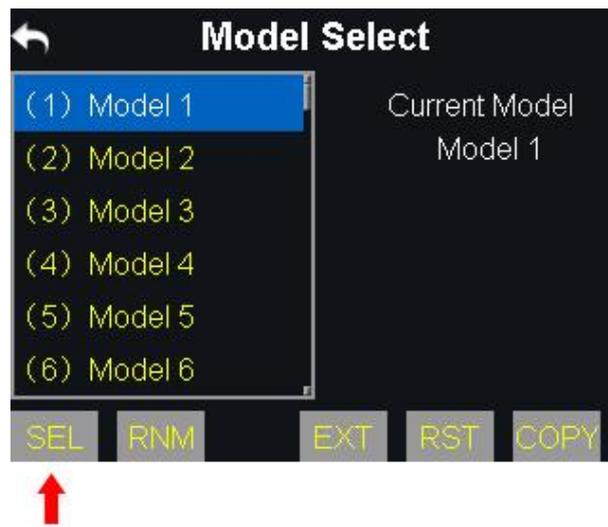
In Model Select function, users can select, rename, copy and reset model data.

5.2.1 Select a Model

In XT32 transmitter’s model list there are maximum 64 sets of model data for your selection.

Steps to Select a Model

1. In “Model Settings” menu, tap on “Model Select” icon to enter model select menu;



2. Tap on your requiring model, then “Select”, in screen menu it pops up “Confirm your selection” menu, tap on “YES” to finish selecting.

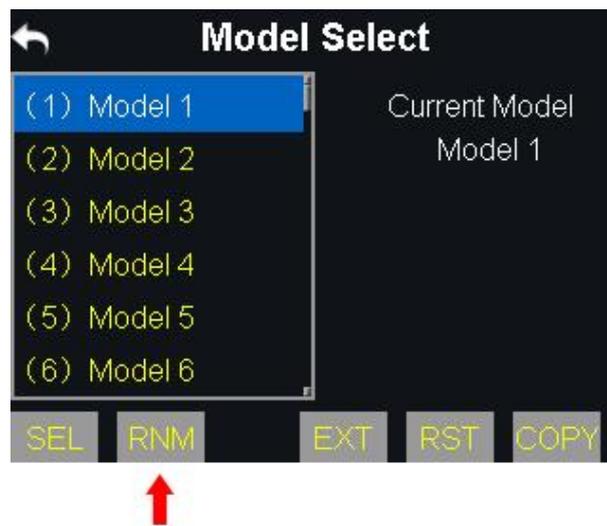
5.2.2 Rename a Model

Users can rename model data in model list to differ them from various purposes.

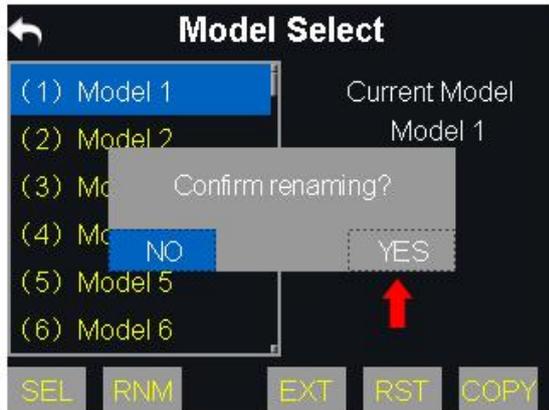
Your currently selected model data is displayed in transmitter main menu.

Steps to Rename a Model

1. Tap on your requiring model, then “Rename”, in screen menu it pops up “Confirm to rename the model”; then “Yes”, in screen it shows a virtual keyboard menu;



2. Input a new name for the model using virtual keyboard, then tap on “yes” to finish.



About Virtual Keyboard

CAPS: Switch keyboard to input capital letters.

SCAP: Switch keyboard to input lower case letters.

NUM: Switch keyboard to input numbers and punctuations.

Backspace: Delete what is already input.

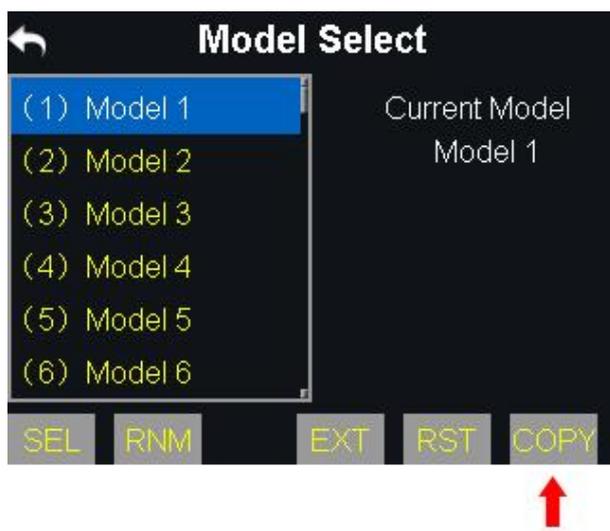
Cancel: Cancel inputting, transmitter does not save what is already input.

5.2.3 Copy a Model

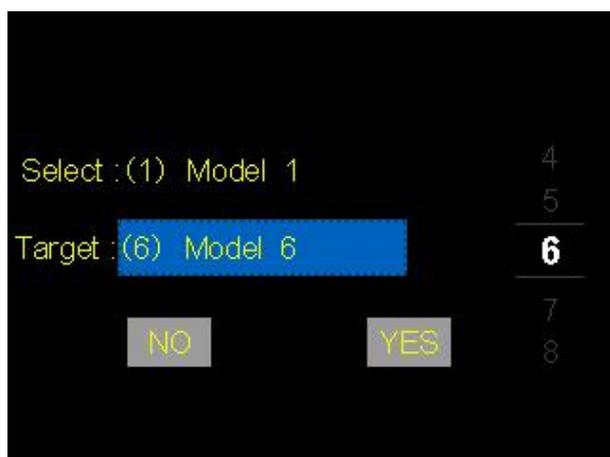
Users can copy model data from transmitter's model list for backup, by doing so, you just need to revise requiring data instead of inputting all data when you adjust settings for a new model.

Steps to Copy a Model

1. Tap on your requiring model, then “Copy”, in screen it shows “Copying Model” menu;



2. Select a target model through turntable, then tap on “Yes” to finish copying.

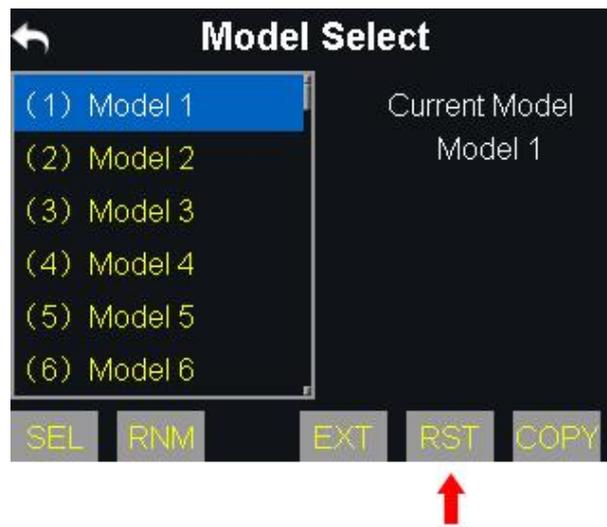


5.2.4 Reset all Models

Users can reset former model data in model list, after resetting, the model recovers to default settings.

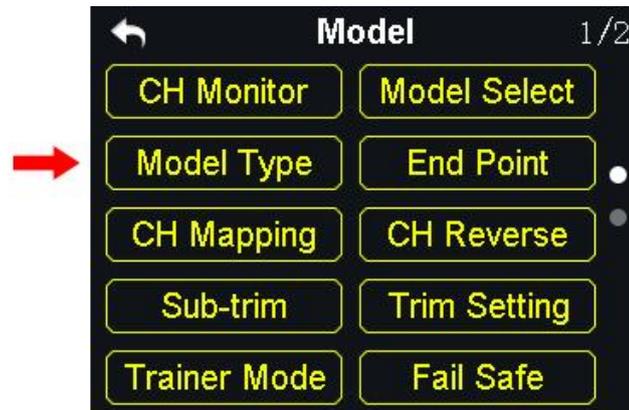
Steps to Reset a Model

1. Tap on your requiring model, then “Reset”, in screen menu it pops up “Confirm to reset the model” dialog;



2. Tap on “Yes” to finish resetting.

5.3 Model Type



In XT32 transmitter there are several default model types, Fixed-wings / Gliders, Multi-rotors (racing drones, agricultural drones) and others (helicopters), each model type with necessary settings done in advance. Users need to select your requiring model and do advanced settings.

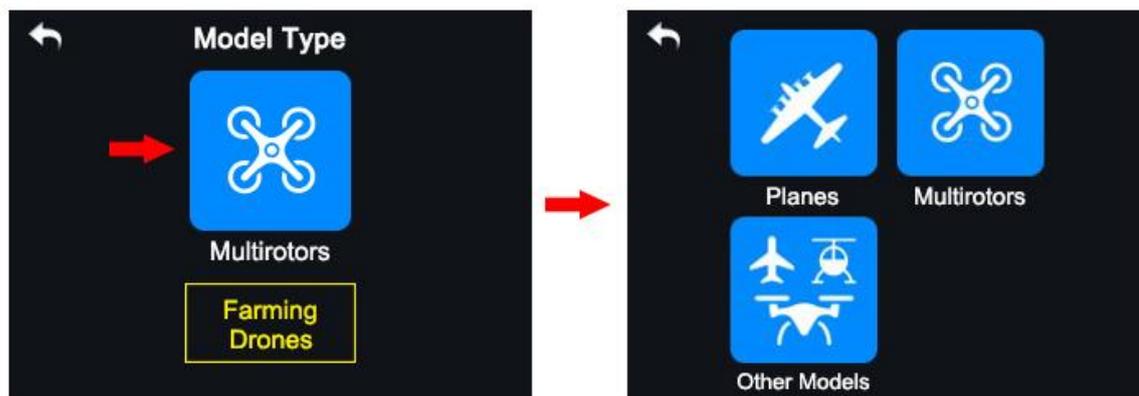
CAUTION

When you select a requiring model type, all data in current model will be reset automatically.

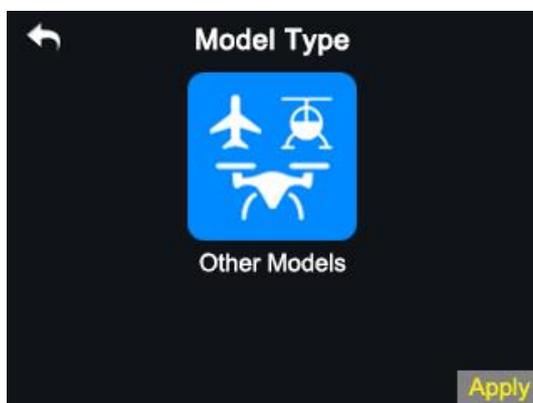
It's better to save model data through model select function before switching to another model type.

Steps to Select a Model Type

1. In “transmitter settings” menu, tap on “Model Settings”, then “Model Type”;
2. In screen, first it displays the current model type; tap on the model icon, screen menu is switched to “Model Type” menu;



3. Tap on your requiring model type; select your requiring type and tap on “Apply” to finish.



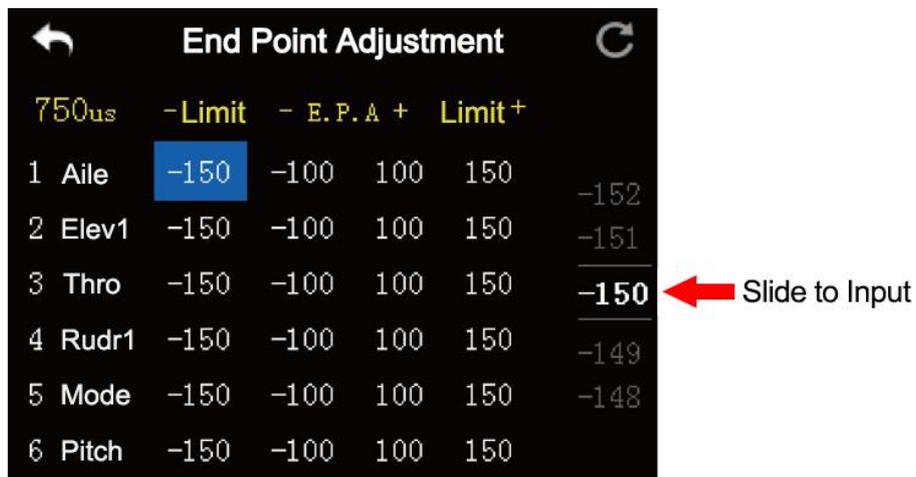
5.4 End Point



End point function helps users adjust channel value and the maximum / minimum limit on both ends.

Steps to Adjust End Point

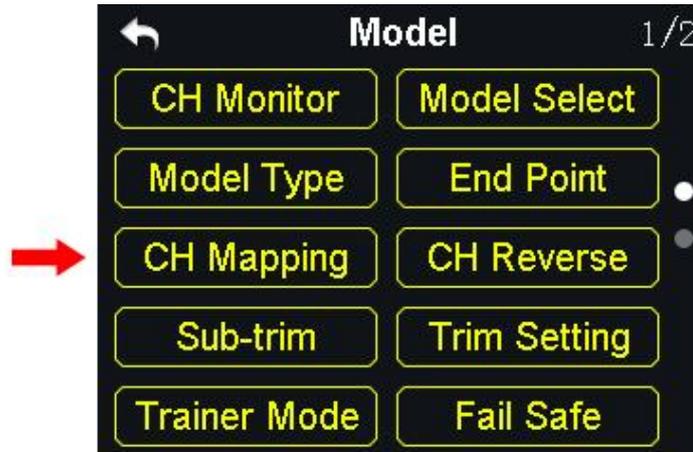
1. In model settings menu, tap on “End Point”, in screen it shows end point menu; in end point menu, “-E.P.A+” stands for channel value, “-limit / limit+” stands for the minimum / maximum limit value;



2. Tap on a value in your requiring channel, then use turntable dial to select target channel value or limit value; limit value range is from -150 to 150;
3. Limit value protects servo and other external devices. With limits, channel value doesn't exceed a certain value even under programmable mixing function.

 **Mark:** In end point menu, tap on “Reset” at upper right corner screen to reset all channel value.

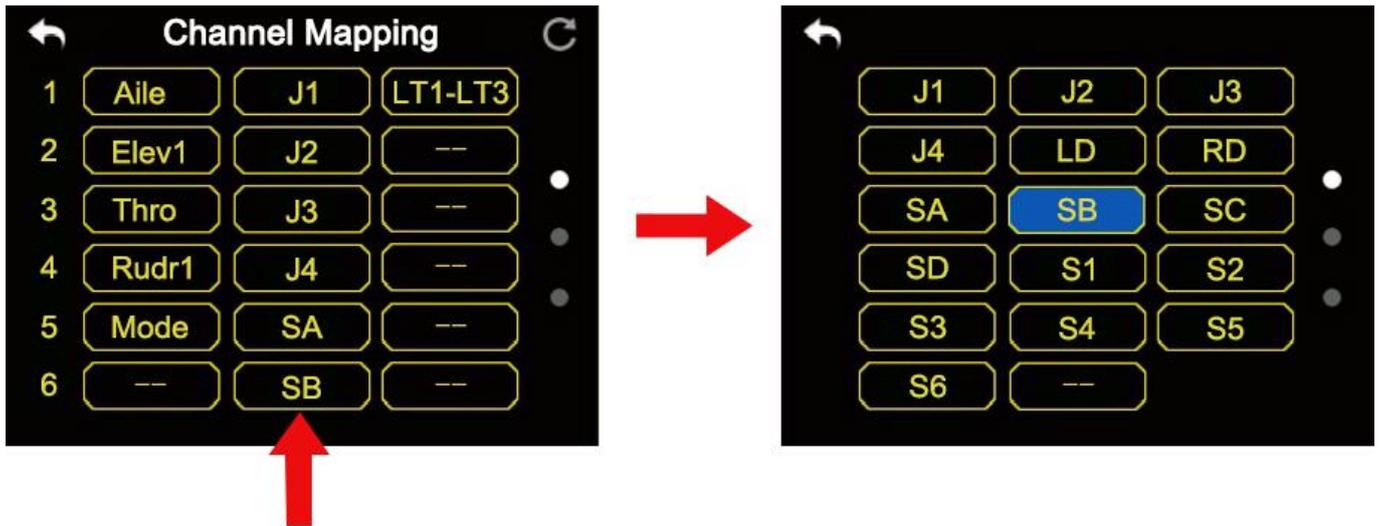
5.5 Channel Mapping



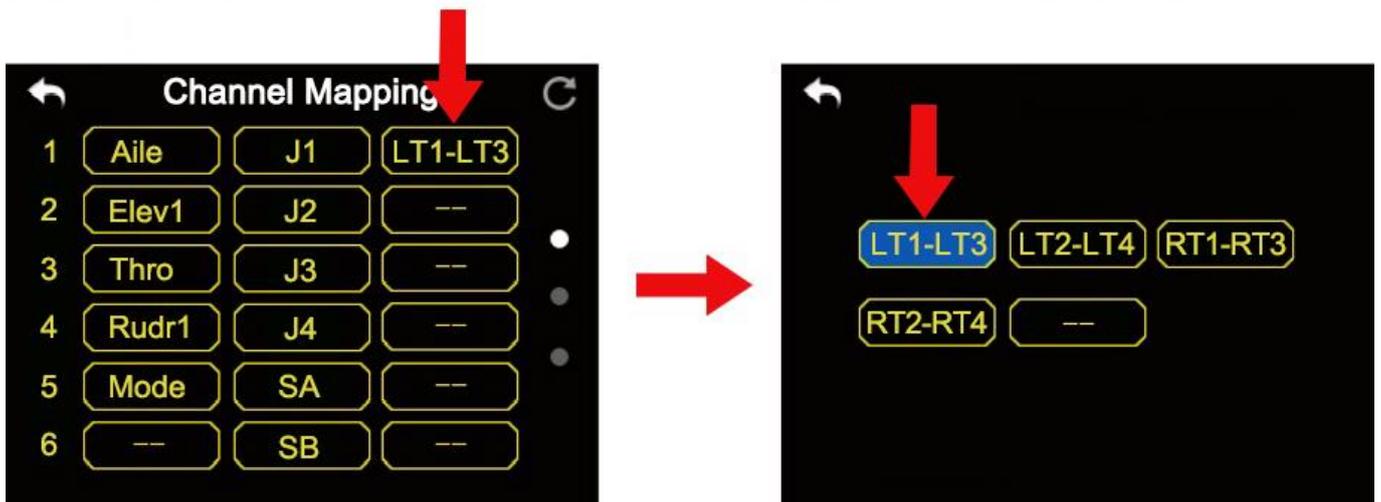
XT32 transmitter's all 16 channels can be mapped randomly to joysticks, switches, buttons and dials on transmitter.

Steps to Map Channels

1. In model settings menu, tap on "Channel Mapping", in screen it shows channel mapping menu;
2. In XT32 transmitter, Channel 1-4 are default to functions such as aileron, elevator, throttle and rudder;
3. Take an example of channel 1 (aileron), tap on "J1", in screen it shows transmitter channel list;

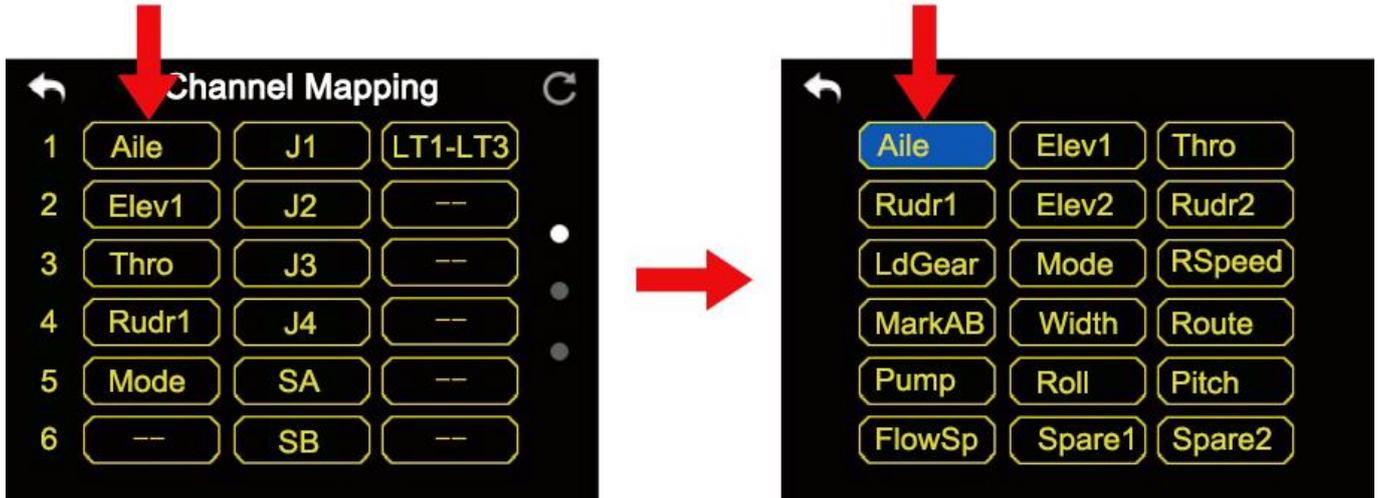


4. Select your requiring joysticks, switches, buttons or dials from channel list;
5. Tap on “Return” to finish channel mapping.



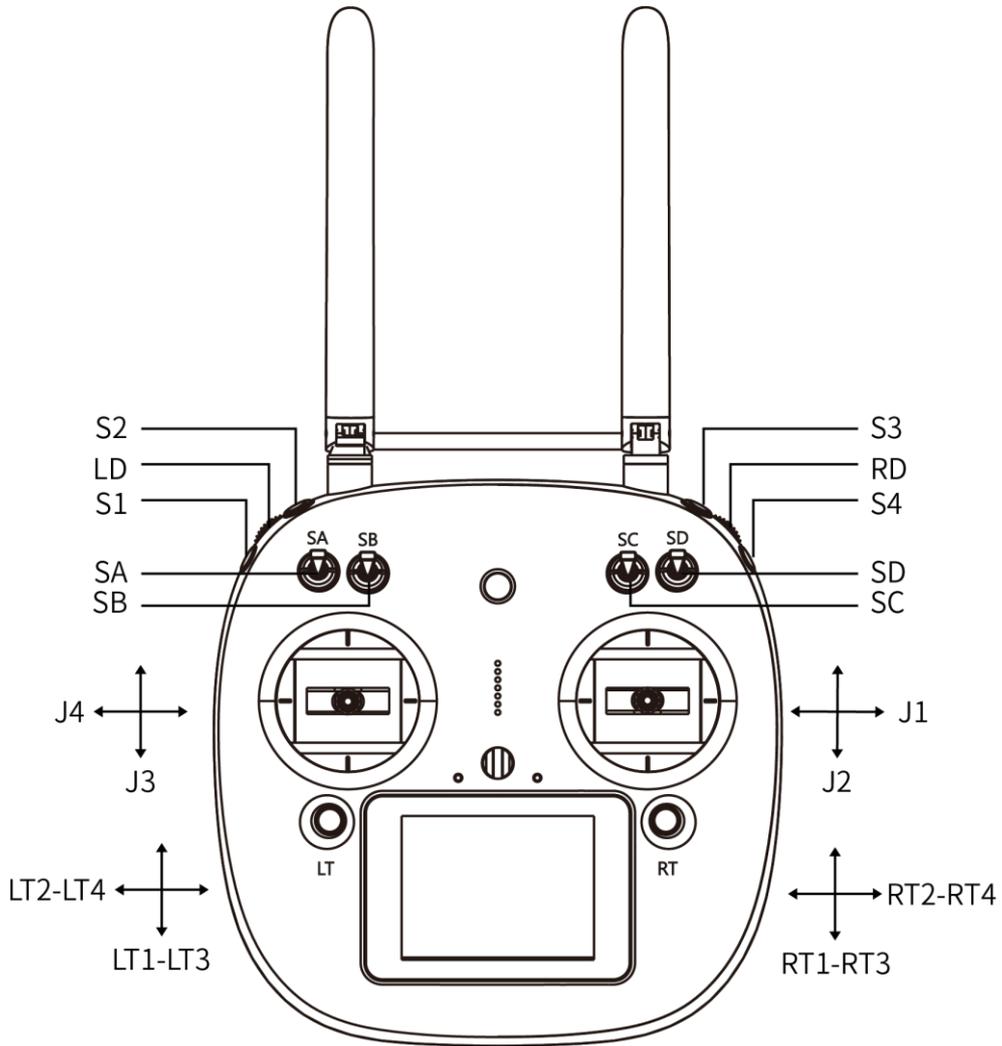
Mark:

- In channel mapping menu, if you need to redefine a channel, tap on the channel name, in screen it shows transmitter channel definition list; select a definition from the list to finish redefining channel.

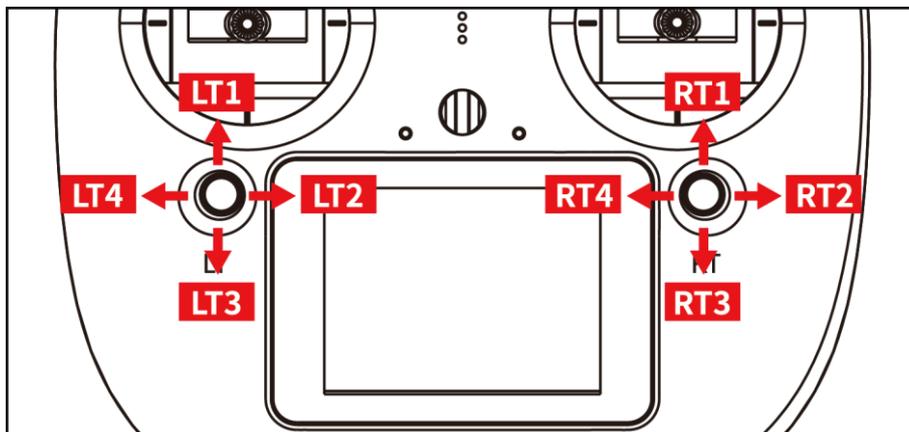


- In channel mapping menu, tap on “Reset” to rest all channel data.

XT32 Transmitter's Channel Definition Introduction



Sub-Trim Mapping



When channel mapping is finished, users can set digital sub-trim mapping according to their preference.

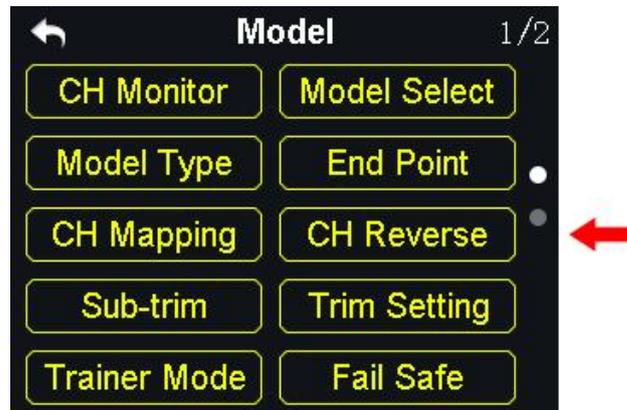
Digital sub-trim channel definition is default to Up-Down (LT1-LT3, RT1-RT3) and Left-Right (LT2-LT4, RT2-RT4).

Steps to Set Sub-trim Mapping

When channel mapping is done, tap on the blank option next to your requiring channel, select your target sub-trim direction to finish settings.

 **Mark:** Sub-trim mapping can be repeatedly used in different channels; sub-trim mapping data is reset together with channel mapping data, please make backup in advance.

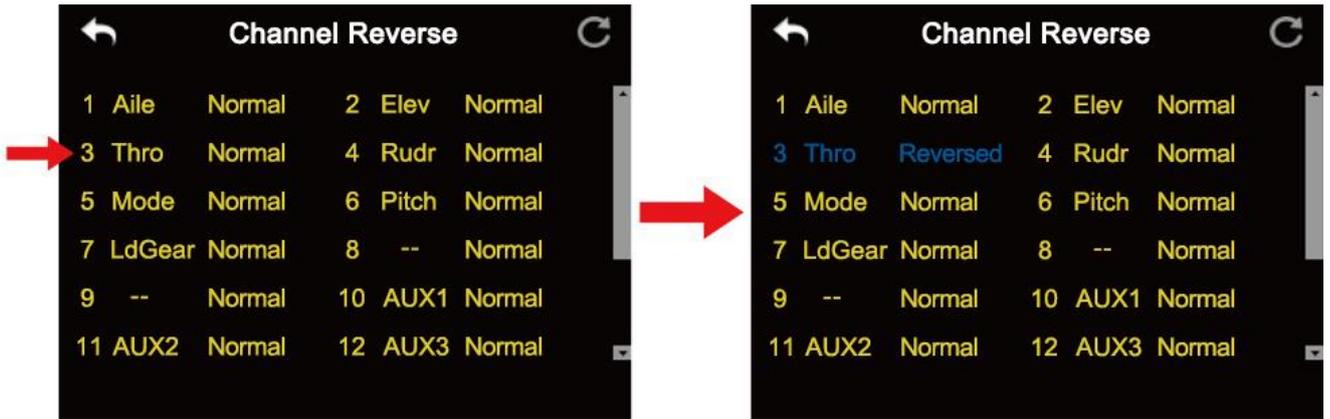
5.6 Channel Reverse



Channel reverse function helps users reverse a channel's direction.

Steps to Set Servo Reverse

1. When XT32 transmitter is linked to a new model, please confirm if all servos are mapping to the right channels first;
2. Try to manipulate transmitter's joysticks, switches, buttons and dials to confirm if each channel direction is normal or reverse;
3. In model setting menu, tap on "Servo Reverse", in screen it shows servo reverse menu;
4. In servo reverse menu, select your requiring channel, tap on "Normal" to turn it to "Reverse", it means that the channel has been reversed.



 **Mark:** In servo reverse menu, tap on “Reset” to reset all settings.

5.7 Sub-Trim



Sub-trim function helps users set channel's middle position and do trim adjustment to aircraft's flight attitude.

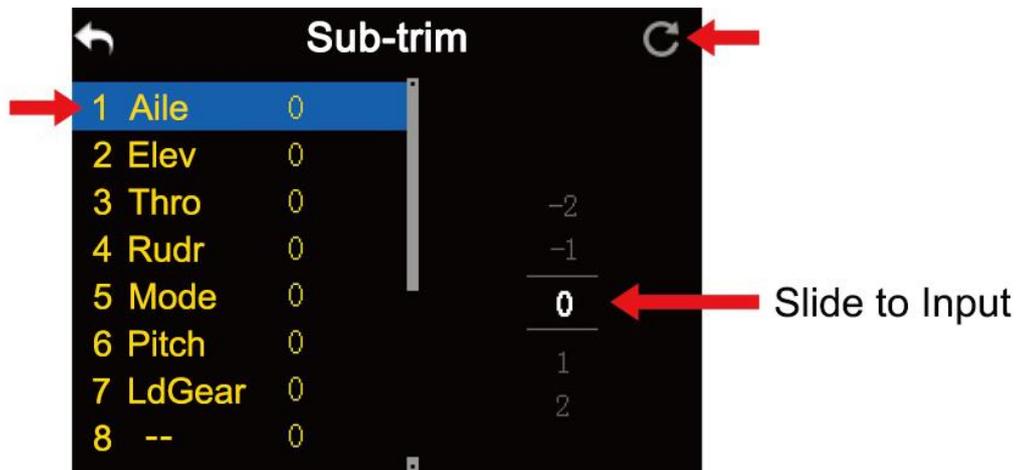
Before sub-trim settings, please make sure that the target sub-trim channel is in middle position.

 **CAUTION**

We do not suggest using sub-trim function when you are flying agricultural drones.

Steps to Adjust Sub-Trim

1. In model select menu, tap on “Sub-trim”, in screen it shows sub-trim menu;
2. Tap on your requiring channel; use turntable to select a target middle value;
3. Repeat step 2 if you need to adjust other channels.



Mark: In sub-trim menu, tap on “Reset” on upper right corner in screen to reset all settings.

5.8 Trim Settings



Trim setting helps users adjust digital sub-trim's stepping value.

Equivalence relationship between trim setting value and trim stepping value are,

5 Trim Setting Value = 1 Trim Stepping Value

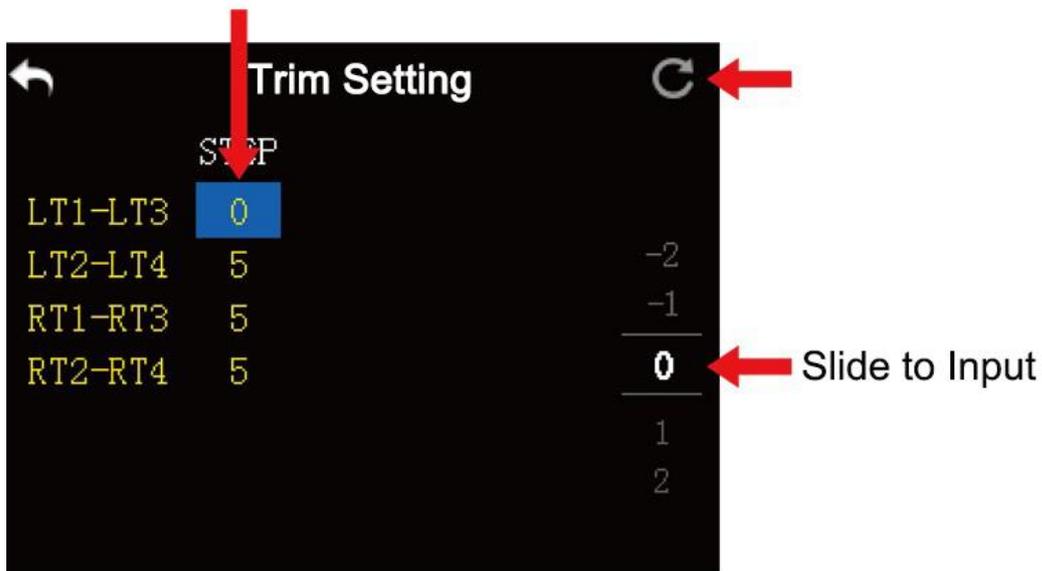
That is, when trim setting value changes in 5, trim stepping value changes in

XT32 transmitter's trim setting value is default to be 5, trim setting value's minimum limit is 0, maximum limit is 100; trim stepping value's minimum limit is 0, maximum limit is 20.

Steps to Adjust Trim Settings

1. In model settings menu, tap on "Trim Setting", in screen it shows trim settings menu;

2. Through trim settings function, users are able to adjust all 4 sub-trim channels; tap on your requiring to change its trim stepping value;
3. Use virtual turntable to select your target trim stepping value, adjustable range is from 0 to 100;



4. Tap on “Return” to finish setting.

Mark: In trim settings menu, tap on “Reset” on upper right corner in screen to reset all settings.

5.9 Trainer Mode

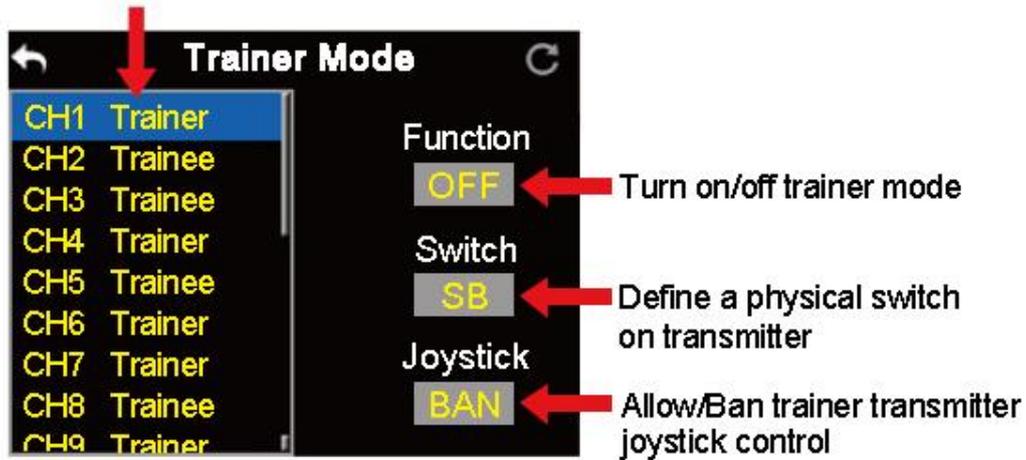


XT32 transmitter’s trainer mode helps experienced users train new talents. In trainer mode, two transmitters are connected with a trainer cable. Users decide which channel to do training.

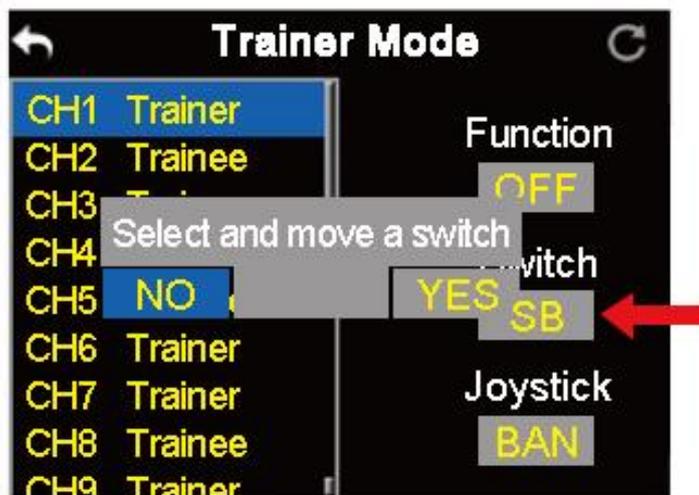
In trainer mode, XT32 transmitter supports turning on/off the function through a physical switch or button. And users can switch identity between trainer and student.

Steps to Use Trainer Mode

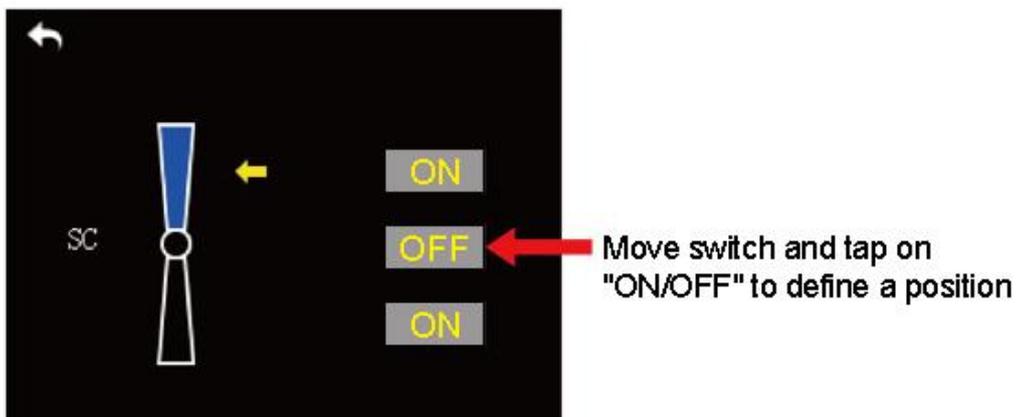
1. Use trainer cable to connect trainer transmitter’s DATA1 port with student transmitter’s DATA1 port;
2. In model settings menu, tap on “Trainer Mode”, in screen it shows trainer mode menu;
3. In trainer mode menu it shows a list of all 16 channels; tap on “ON/OFF” to turn on/off the function;



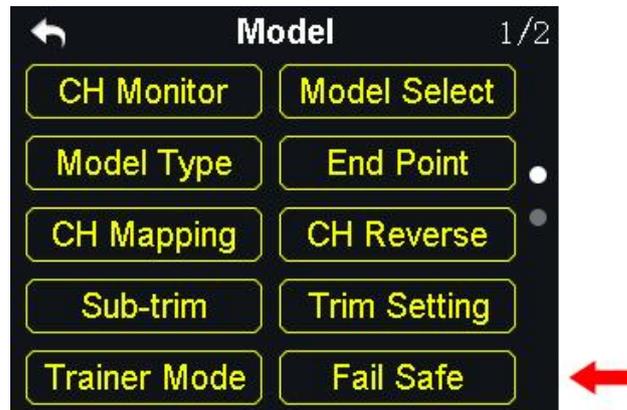
4. The transmitter with trainer mode turned on is master transmitter, the other one is slave transmitter; in master transmitter the channel is default to be “Trainer”;
5. Each channel in the list has two status, trainer and student; when in master transmitter you change the status to “Student”, slave transmitter gets authority to manipulate the channel, otherwise it has no authority;
6. In trainer mode menu, you can define a physical switch or button to turn on / off the function; tap on “NULL”, in screen menu it pops up “Choose a switch / button”; follow the hint to manipulate a switch / button, in screen it shows switch status menu; tap on every icon to define the switch / button;



- When definition is done, the physical switch / button takes control of turning on / off trainer mode.



5.10 Fail Safe

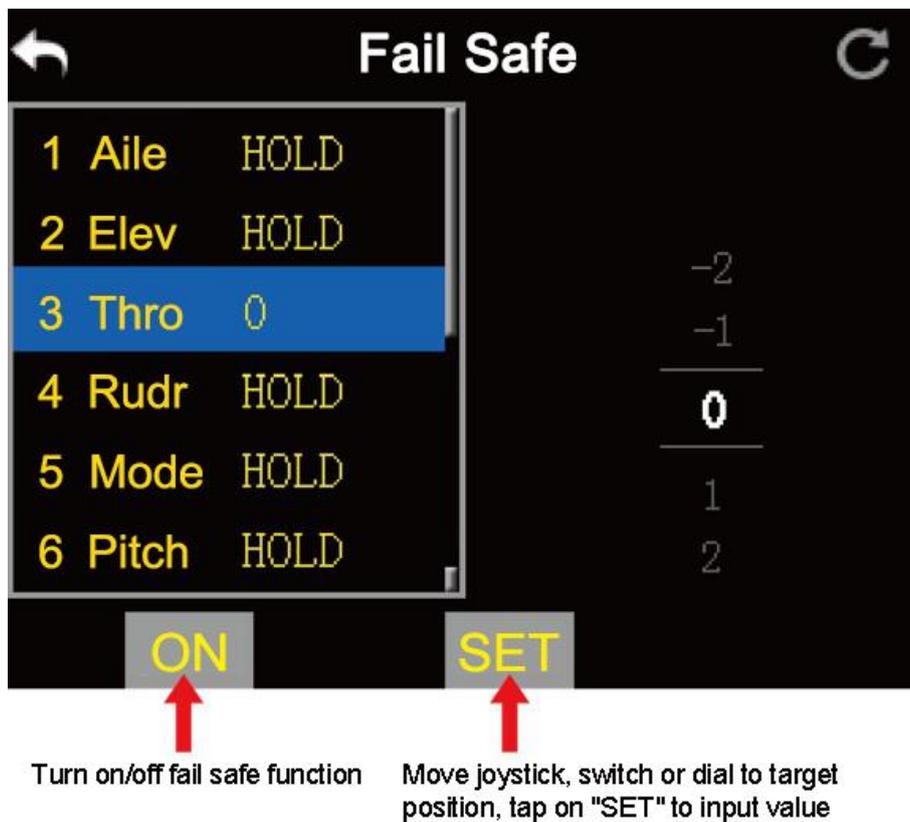


Before linking XT32 transmitter to XR32 receiver, receiver has to be input fail safe program to turn on fail safe function. Thus if in some moments there's no signal transmission between transmitter and receiver, receiver runs on the program immediately to protect the aircraft from crash in flight.

Step to Set Fail Safe

1. In model settings menu, tap on "Fail Safe", in screen it shows fail safe menu;
2. In fail safe menu, the function is default to be off and in every channel it displays "HOLD"; in default status, if transmitter lost signal from receiver, receiver outputs the last group of channel values from transmitter;
3. Tap on "OFF" down left in screen to switch it to "ON", fail safe function starts working;

4. While fail safe function is working, tap on your requiring channel and switch “HOLD” to “0”; use virtual turntable to input channel value;
5. You can also input channel value by manipulate a joystick, switch, button, or dial which is mapped to the channel; when it reaches to your target value, tap on “SET” to confirm;
6. Users can still use virtual turntable to make final adjustment on channel value in case the value input from physical switches is not accurate.



WARNING

For flight safety, users must set and turn on fail safe function before a flight.

5.11 Timer



In XT32 transmitter main menu it displays two timers, users can use both if necessary.

Timing Mode

Up: Counts from 0, timer alerts when it reaches setting time.

Down: Counts from setting time, timer alerts when it gets back to 0.

Define a Timing Switch

Start: Define a switch / button for "Start".

Stop: Define a switch / button for "Stop".

Reset: Define a switch / button for "Reset".



5.12 Voltage Alert



XT32 transmitter’s power telemetry function helps users set voltage alert. When aircraft’s power voltage is lower than a safe level, users receive voice and vibration alert from transmitter.

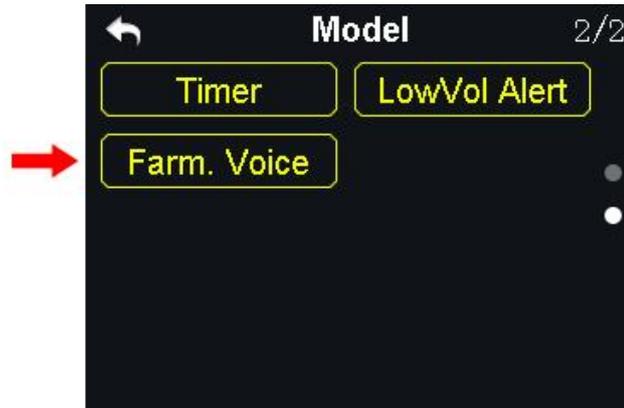
Steps to Set Voltage Alert

1. In model settings menu, tap on “Voltage Alert”, in screen it shows voltage alert menu;
2. Tap on power voltage, then “+/-” to adjust voltage value;



3. Tap on “Return” to finish.

5.13 Farming Voice



In XT32 transmitter there is a voice broadcast function specialized for farming drones. The function is supported by at most 6 switches and their 16 positions. They are SA, SB, SC, SD, S2 and S3.

Steps to Set Farming Voice

1. In model settings menu, tap on “Farming Voice”, in screen menu it shows farming voice menu;



2. In farming voice menu, tap on “ON/OFF” to enable/disable the function;
3. Select a switch, tap on your requiring position, in screen menu it shows farming voice broadcast list; select your requiring voice broadcast to define the switch;
4. Repeat step 3 if you need to define other switches.

Farming Voice Broadcast List Introduction



Atti. (Attitude): Attitude Mode

Stab. (Stablize): Stable Mode

Hold (AttiHold): Attitude Hold Mode

GPS: GPS Mode

AB Ln (AB Line): A/B Line Flight Mode

Auto (AutoMode): Auto Flight Mode

Rcd A (Record A): Record A Point

Rcd B (Record B): Record B Point

ExeAB (Execu AB): Execute A/B Line (for Topxgun flight controller only)

Clear (Clear AB): Clear AB Line

SpON (SprayON): Turn on spraying.

SpOFF (SprayOFF): Turn off spraying.

RTH (RtnHome): Drone return to home

RTB (RtnBreak): Drone return to breakpoint

Loit. (Loiter): Loiter Mode

6 SYSTEM SETTINGS



Functions



General Stts (General Settings): Set transmitter's basic functions.

Lock&Display (Screen Lock & Display): Turn on / off transmitter touch screen display, adjust brightness.

H/W Settings (Hardware Settings): Change several transmitter channels' hardware definition through software settings.

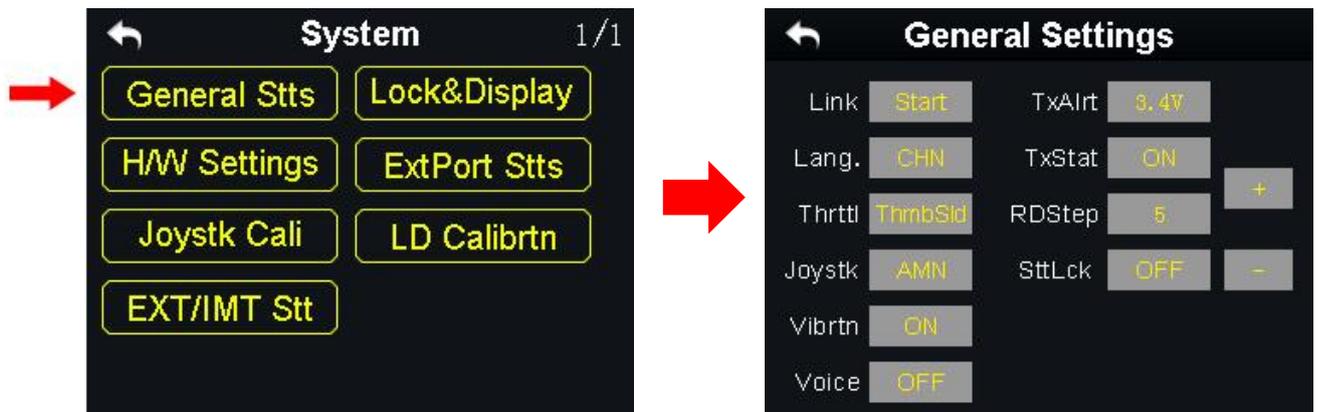
ExtPort Stts (Extending Ports Settings): Set transmitter extending ports' definition.

Joystk Cali (Joystick Calibrating): Calibrate transmitter joysticks.

LD Calibrtn (LD Calibrating): Calibrate transmitter left dial LD.

EXT/IMT Stt (Export/Import Setting Data): Export transmitter settings or model settings.

6.1 General Settings



General Settings Menu Introduction

Link (Linking): Start linking XT32 transmitter to XR32 receiver.

Lang. (Language): Switch XT32 transmitter’s system language between Chinese/English.

Thrttl (Throttle Type): Switch throttle joystick type between “Self-centering” and “Thumb-slide”.

Joystk (Joystick Mode): Switch joystick mode from American Hand / Japanese Hand / Chinese Hand / Custom Hand.

Vibrtn (Vibration): Turn on / off transmitter’s vibration alert function.

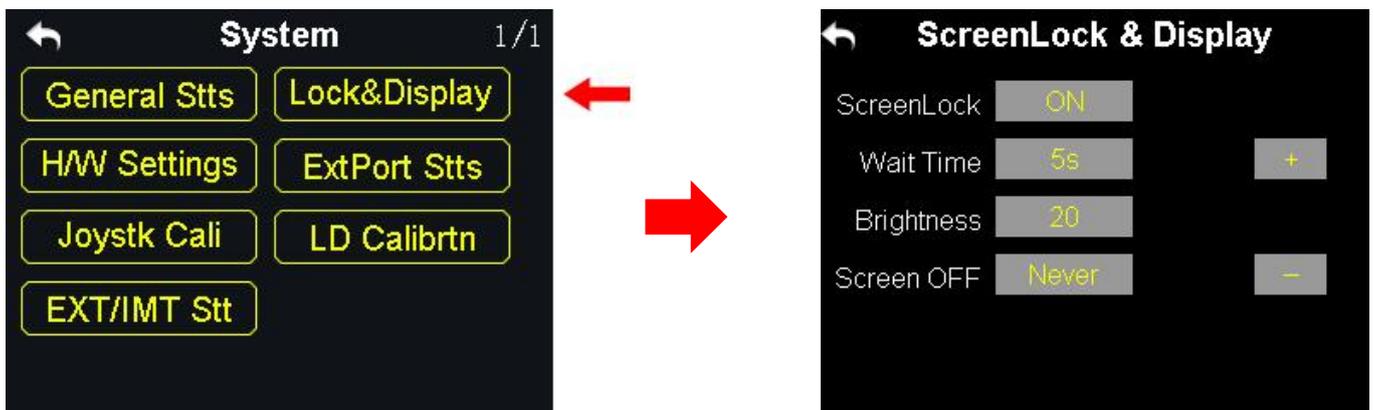
Voice (Voice Broadcast): Turn on / off transmitter’s voice broadcast function.

TxAirt (Transmitter Low Battery Level Alert): Set a transmitter battery level limit lower than which transmitter will alert.

TxStat (Transmitting Status): Turn on / off radio signal transmitting.

RDStep (RD Stepping Value): Set transmitter right dial’s stepping value (range: 1-100). Higher it is, more channel value the channel value increases in every movement.

6.2 Screen Lock & Display



Users can turn on / off XT32 transmitter’s screen lock, setting screen lock waiting time, adjust screen brightness and screen sleep waiting time.

Screen Lock and Display Introduction

Screen Lock: Users can do nothing touching on screen menu when screen lock is enabled.

Screen Lock Waiting Time: Set waiting time before locking transmitter screen.

Screen Brightness: Adjust screen brightness (range 1 - 20).

Screen Sleeping Time: Turn on / off transmitter screen's sleeping function (screen display turns off automatically after waiting time) and set waiting time. When you set it "Never", transmitter screen stays on.

 **Mark:** When screen lock is enabled, press down a sub-trim button (LT5 direction of left sub-trim button, RT5 direction of right sub-trim button) for 3 seconds to unlock the screen.

6.3 H / W Settings



H / W settings help users do advanced settings for XT32 transmitter’s LD dial (switch between Position / Speed Mode) and S1 / S4 / S5 / S6 switches (switch between Self-locking / Self-resetting).

The Difference between LD Dial’s Position and Speed Mode

Position Mode: LD channel value output depends on dial’s position. More dial angle changes, more channel value output increases.

Speed Mode: LD channel value output depends on dial’s rotating speed. Faster dial rotates, more channel value output increases. Speed mode is usually used among aerial photography users to change gimbal camera angle.

Steps to Set LD Dial

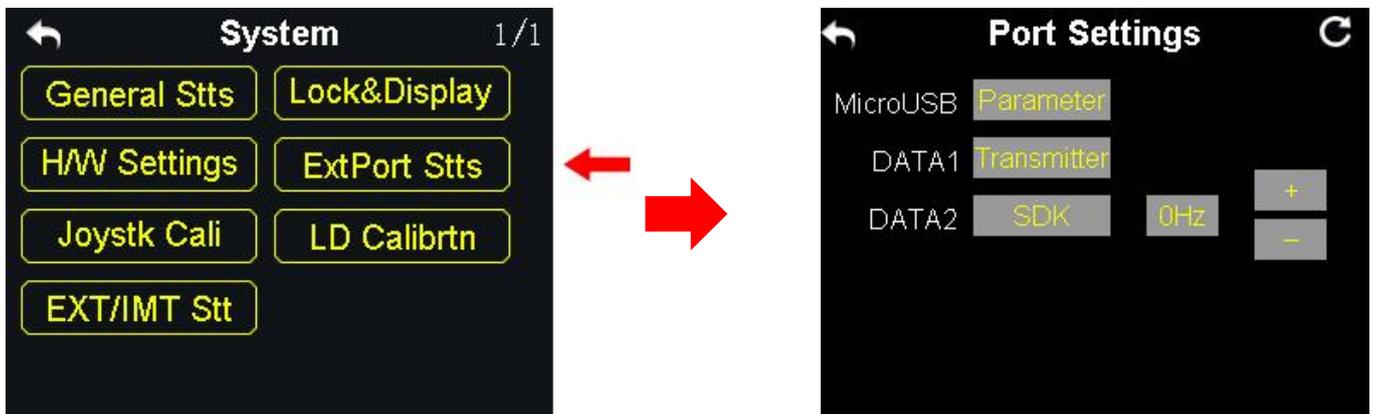
1. In system settings menu, tap on “H / W Settings”, in screen it shows H / W settings menu;
2. Tap on “Position / Speed” to switch LD’s working mode; in speed mode, you can tap on “+ / -” to increase or decrease LD’s stepping value to change LD’s rotating

speed.

How to Set S1 / S4 / S5 / S6 Switches

In H / W settings menu, select your requiring switch, tap on “Self-locking / Self-resetting” to switch its working mode.

6.4 Extending Ports Settings



XT32 transmitter’s extending ports help users extend transmitter function to external hardware devices and SDK. Currently XT32 transmitter supports Micro-USB, USB and 4-Pin Groove Port (DATA1 / DATA 2).

XT32 Transmitter Ports Function Assignment

Micro-USB: Charging, parameter adjustment, firmware upgrading and datalink output.

USB: Datalink output (only available for XT32 transmitter datalink version)

DATA1/DATA2: Firmware upgrading of XR32 receiver series, trainer mode and SDK.

Steps to Set DATA1 / DATA 2 Port

1. In system settings menu, tap on “Extending Ports Settings”, in screen it shows extending ports settings menu;
2. Select DATA1 / DATA 2 to switch function assignment (Transmitter / Receiver / GPS / SDK);
3. In “Transmitter” mode, DATA1 / DATA2 is assigned for trainer mode, trainer
4. transmitter output and trainee transmitter input;
5. In “Receiver” mode, DATA1 / DATA2 is assigned for upgrading XR32 receiver series firmware (for details please refer to XR32 Receiver User Manual);
6. In “GPS” mode, DATA1 / DATA2 is assigned for GPS module. By extending to GPS module, farming drone users can handle XT32 transmitter to mark flight points in farmland;
7. In “SDK” mode, DATA1 / DATA2 is assigned for outputting joystick channel value, users can tap on “+ / -” to increase or decrease output frequency.

SDK Agreement Format

Field	Index	Bytes	Description
STX	0	1	0X55
Data Length	2	1	Data field byte length value: 32
CMD ID	5	1	0x00
DATA	6	32	Joystick channel data Data type: 16-byte unsigned int for channel 1-16
Check Sum	38	1	8 bytes (check sum from 0 byte to 37 byte)

6.5 Joystick Calibrating

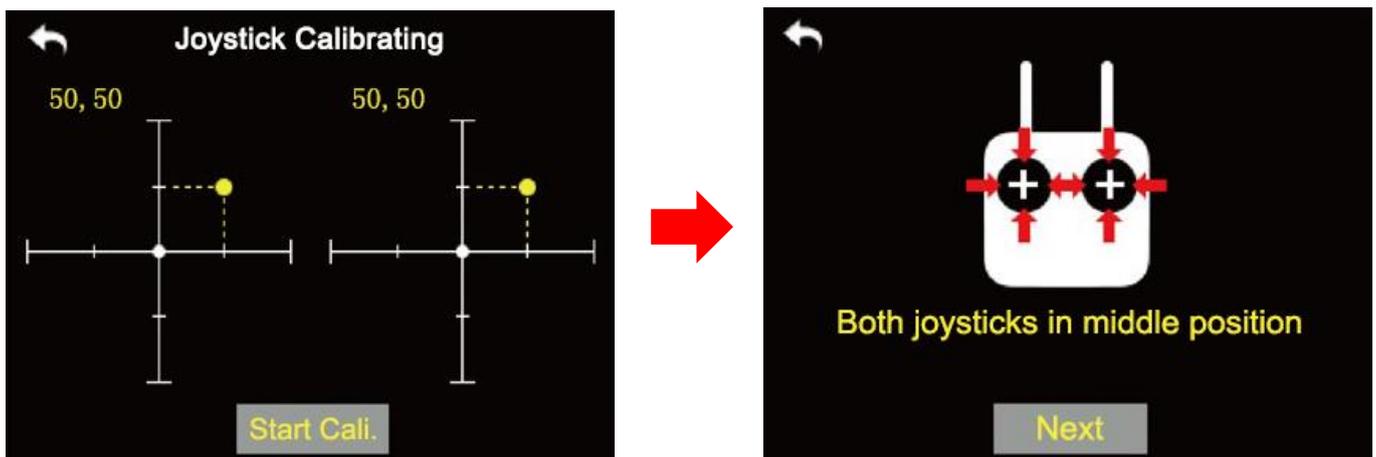


Joystick calibrating function help users calibrate joysticks' middle position.

Regularly calibrating joysticks help users maintain joysticks' control accuracy. Only the self-centering joysticks require calibrating. They require calibrating when they fail to reach their maximum / minimum positions or stay out of their middle position (channel output value is not 0).

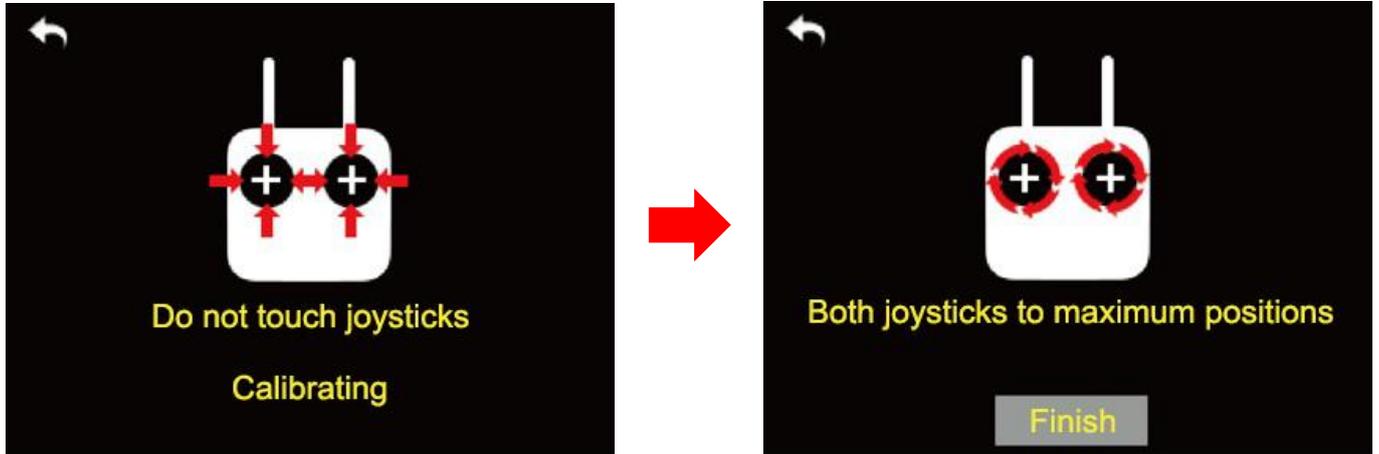
Steps to Calibrate

1. In system settings menu, tap on “Joystick calibrating”, in screen it shows joystick calibrating menu;
2. The cross coordinate system displays joysticks' real-time position;
3. Tap on “Start Calibrating”, in screen it pops up “Confirm if all joysticks are in middle position”;



4. Hold joysticks and main them in middle position (joystick's tick mark aligns with transmitter's tick mark), then tap on “Next”;

- Transmitter starts detecting joysticks' middle position automatically, do not move joysticks while you are waiting;



- When detecting is finished, push both joysticks to their maximum positions, moving and circling them for several times;
- Tap on "Finish Calibrating" to finish.

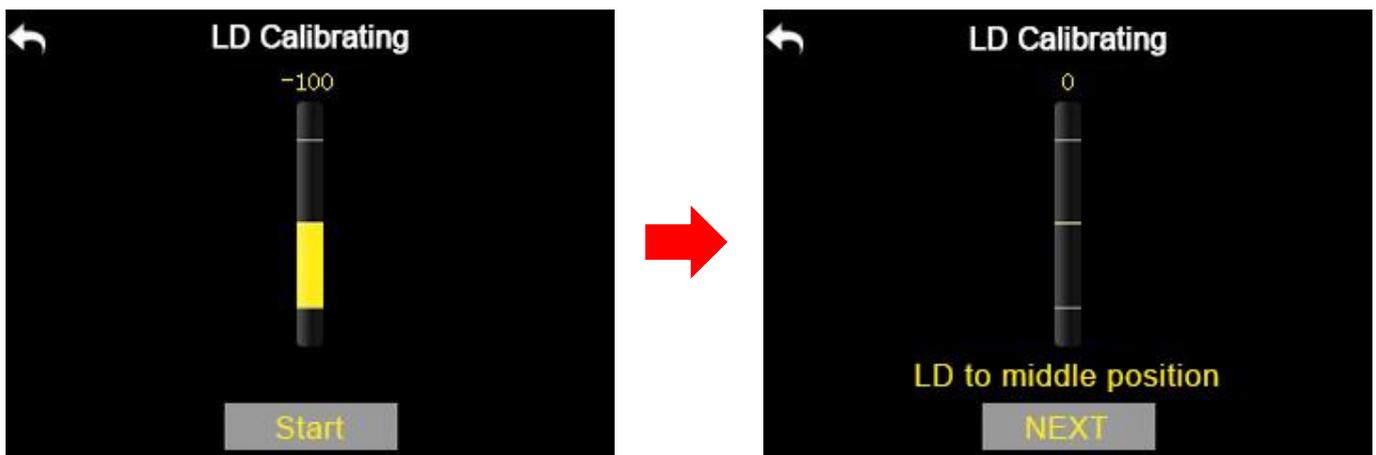
6.6 LD Calibrating



LD calibrating function helps users maintain LD dial's output accuracy. LD dial requires calibrating when it stays out of its middle position (channel output value is not 0) or fail to reach its maximum / minimum position.

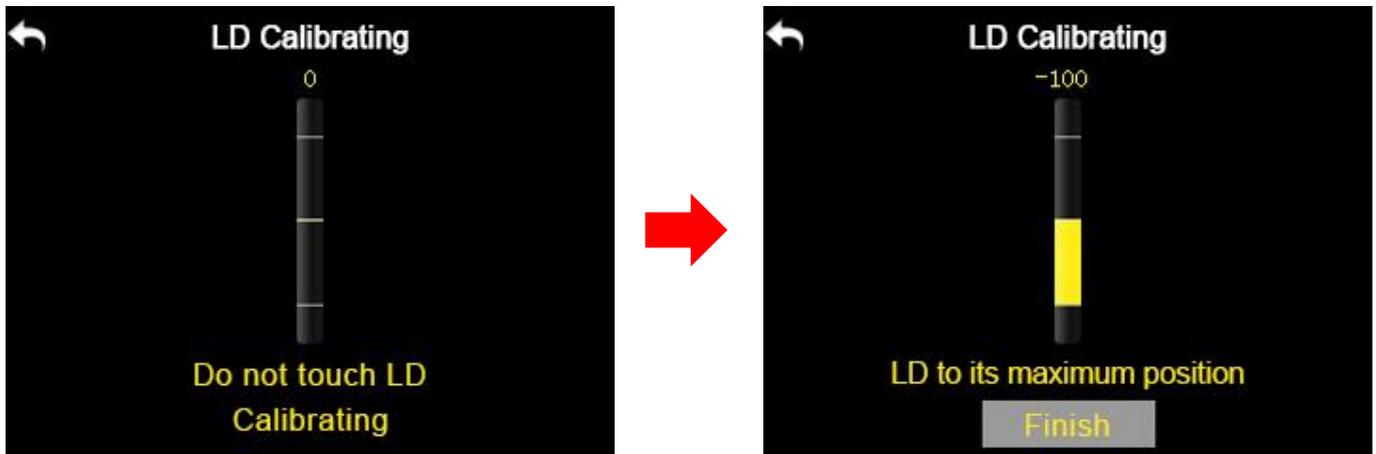
Steps to Calibrating LD

1. In system settings menu, tap on "LD Calibrating", in screen it shows LD calibrating menu;



2. Tap on "Start Calibrating", in screen menu it shows "Please confirm if LD is in its middle position";
3. Make sure LD is in its middle position, then tap on "Next"; in screen menu it shows "Calibrating LD's middle position, do not move LD";

4. Please do not touch LD until in screen it shows “move LD to its maximum and minimum position”; follow the hint and repeat several times;



5. Tap on “Finish Calibrating” when it is over.

6.7 Export/Import Setting Data



Export setting function helps user export XT32 transmitter’s system settings, model settings data to SD card, sharing the settings to other XT32 transmitters.

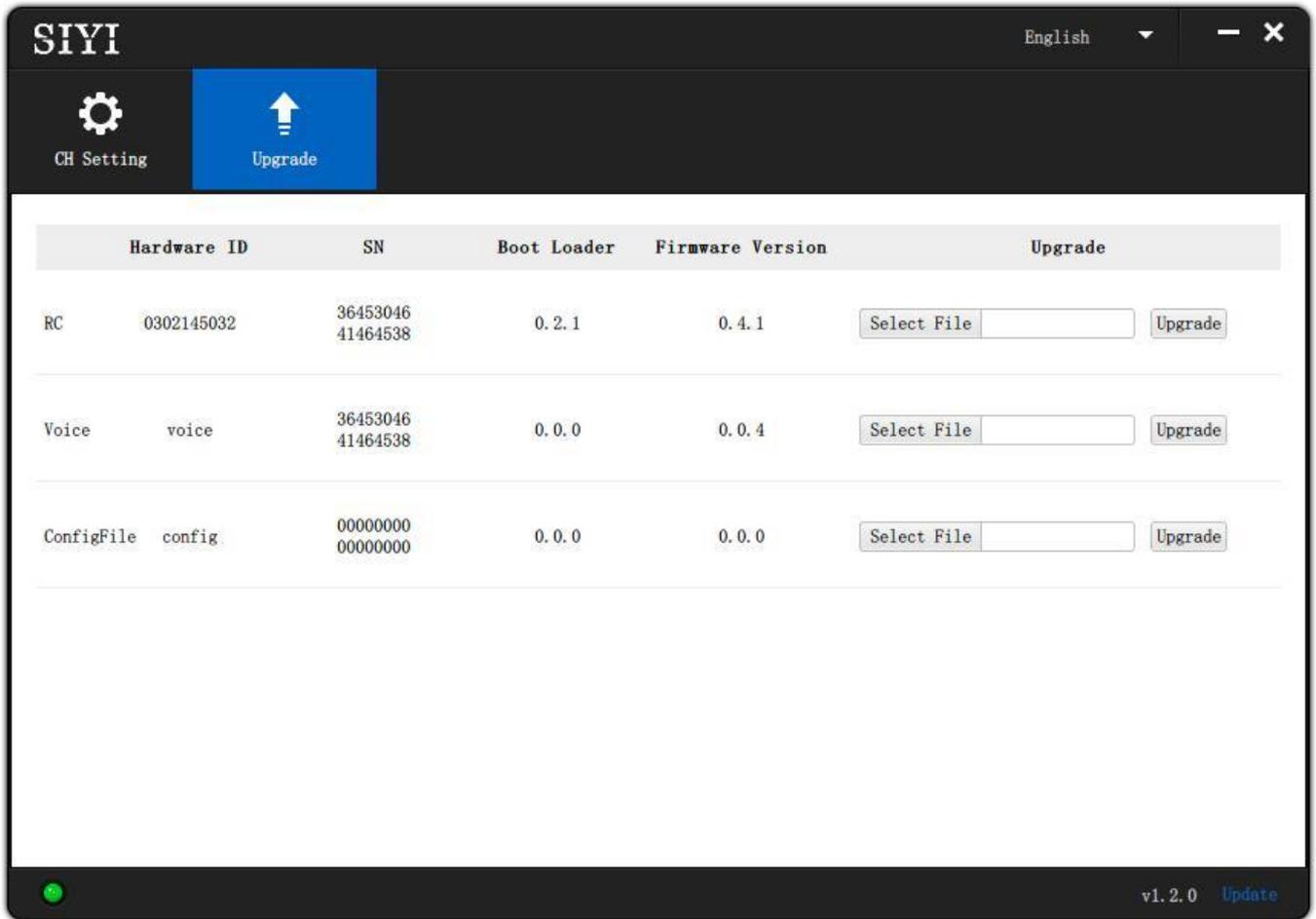
Steps to Export Setting Data

1. Insert SD card to XT32 transmitter (ignore this step if it was already there);

2. In system settings menu, tap on “Export Setting”, in screen it show export setting data menu;
3. Tap on “System Settings” to export transmitter’s system setting data; “All Models” to export all model setting data saved in transmitter; if you just need to export the current model’s setting data, tap on “Current Model”;
4. In screen it pops up “Confirm to export” dialog, tap on “Confirm” to finish exporting.

Steps to Import Setting Data

1. Connect XT32 transmitter to computer via USB cable, and open “SIYI Assistant” software;
2. Import your requiring setting data saved in SD card to computer through SD card reader, find files in format “.CFG”. System setting data is name as “SYS.CFG”, all model setting data is name as “ALL.CFG”; current model setting data is name as “MODEL+number.CFG”;
3. In “SIYI Assistant”, tap on “Upgrade”; in “Setting Files”, tap on “Select File” to load setting files;

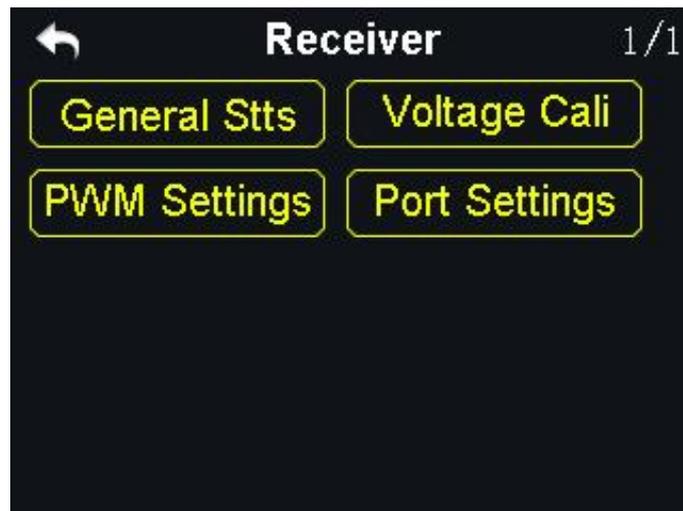


4. Tap on “Upgrade” to finish.

7 Receiver Settings



Functions



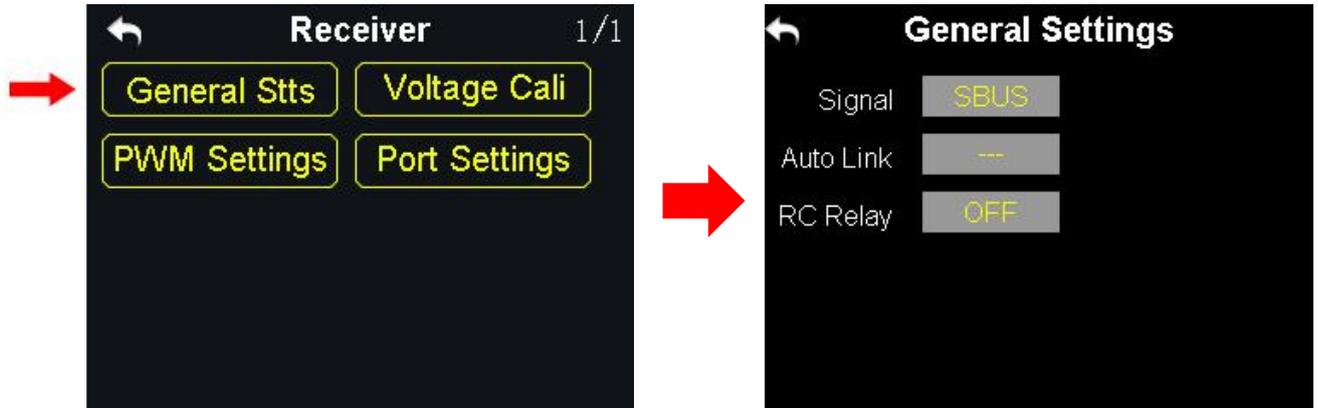
General Stts (General Settings): Set XR32 receiver's basic functions.

Voltage Cali (Voltage Calibrating): Calibrate receiver voltage telemetry.

PWM Settings: Change channel definition under PWM mode.

Port Settings: Set receiver ports' function.

7.1 General Settings



7.1.1 Signal Mode

Set signal mode for XR32 receiver's 3 different output mode, SBUS, PPM and PWM.

Steps to Set Signal Mode

1. In general settings menu, select "Signal Mode" and tap on "SBUS / PPM / PWM" to switch different signal mode;
2. Receiver status indicator blinks yellow once when it is switched to SBUS mode, yellow twice to PPM mode, yellow 3 times to PWM mode;
3. When it is done, receiver status indicator blinks green in all modes, and its blinking speed indicates signal strength. Faster it blinks, weaker signal strength is.

7.1.3 Automatic Linking

When XR32 receiver is powered on, the automatic linking function is turned on, and receives no signal from transmitter in 20 seconds, receiver starts linking to

transmitter automatically.

Automatic linking function is to simplify procedure. We suggest users to turn on the function when receiver is installed in aircraft body, thus they have no approach to receiver's linking button.

CAUTION

Do not turn on automatic linking when you are using more than one pair of transmitter and receiver at the same time.

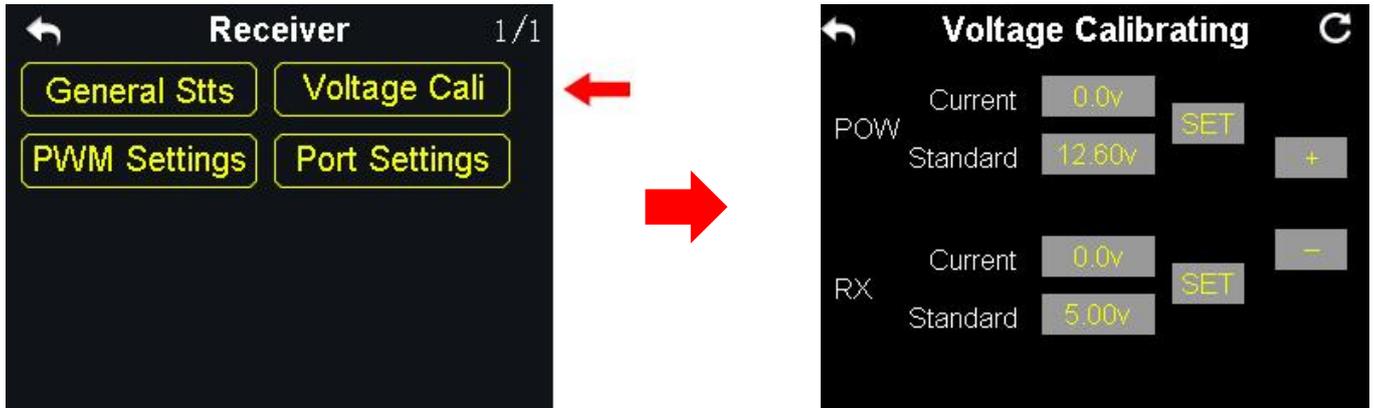
7.1.3 Remote Control Relay

Remote control relay function helps users with long distance flight relay. It supports two transmitters at most.

How to Use Remote Control Relay Function

1. Prepare two XT32 transmitters, mark them with 1 and 2;
2. Please link transmitter 1 to receiver first, then turn on "Remote Control Relay" in "General Settings Relay" menu; transmitter 1 is the slave transmitter;
3. Then link transmitter 2 to receiver; transmitter is always the master transmitter even if you restart receiver or transmitter.

7.2 Voltage Calibrating



Before using XR32 receiver, we suggest users to manually calibrate receiver telemetry voltage and aircraft power telemetry voltage once.

Here are some preparing work before calibrating.

Power on receiver and transmitter;

Link receiver to transmitter.

Steps to Calibrate Receiver Telemetry Voltage (RX)

1. Power on receiver through any PWM port, voltage range is from 3.6V to 10V, measuring with a multi-meter;
2. Let's take an example of 6.0V; select "Standard Voltage" in RX menu, tap on "+/-" to set standard voltage to 6.0V;
3. Tap on "SET", in screen it pops up "Calibrating Succeed", receiver telemetry voltage calibrating is finished.

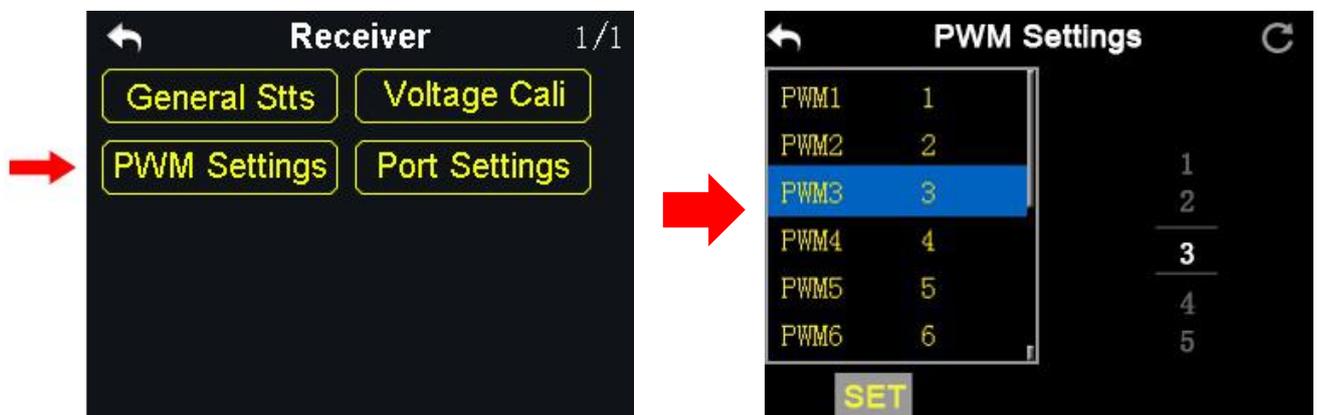
Steps to Calibrate Aircraft Power Telemetry Voltage (POW)

1. Power on receiver through POW port, voltage range is from 3.3V to 50V,

measuring with a multi-meter;

2. Let's take an example of 25V; select "Standard Voltage" in POW menu, tap on "+/-" to set standard voltage to 25V;
3. Tap on "SET", in screen it pops up "Calibrating Succeed", aircraft power telemetry voltage calibrating is finished.

7.3 PWM Settings



In XT32 transmitter users can redefine XR32 receiver's output channel in PWM mode (Channel 1-9 in default), so that if receiver's channel 9 is already working in SBUS or PPM mode, PWM ports 1 to 8 can still be defined to output transmitter channels 1 to 16.

Steps to Set PWM

1. Power on transmitter and receiver, make sure that they are linked with each other;
2. Transmitter PWM port 1 is mapping to receiver channel 1 PWM port, transmitter PWM port 2 is mapping to receiver channel 2 PWM port...and so on;

3. In “PWM Settings” menu, tap on a PWM port, select your requiring channel through virtual turntable in screen;
4. Tap on “SET” to finish.

7.4 Port Settings



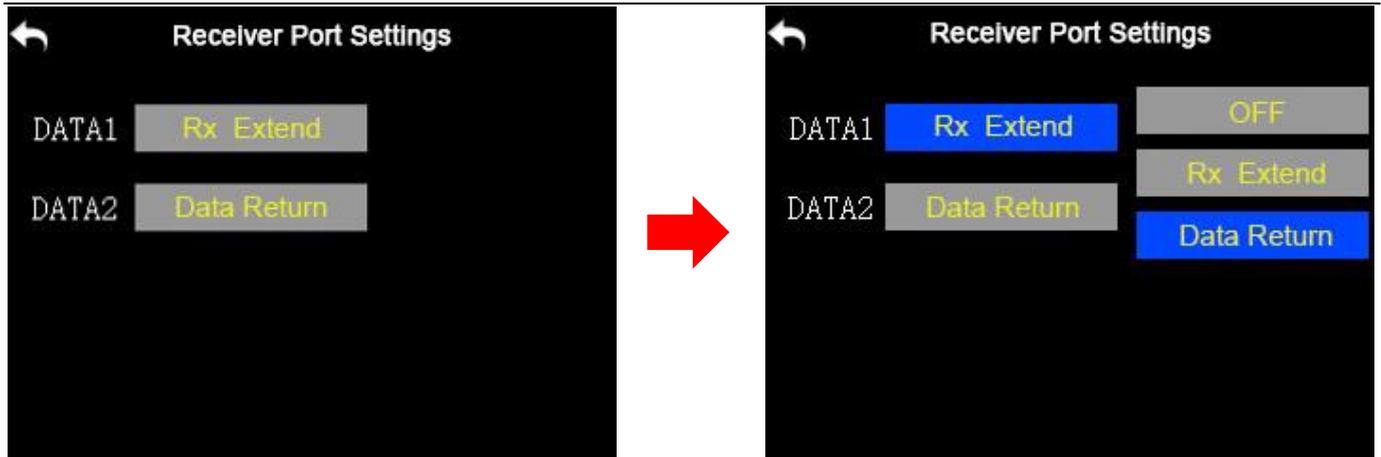
Port settings help users switch receiver DATA1/DATA2 port’s output mode (Receiver Extension / Data Telemetry) in transmitter

Receiver Extension: supports dual XR32 receiver interconnection.

Data Telemetry: supports flight controller data telemetry.

Steps to Set Receiver Ports

1. In “Port Settings” menu, tap on “DATA1 / DATA2”;
2. Tap on “Receiver Extension / Data Return” to switch receiver DATA1 / DATA2 port’s output mode.



8 Datalink Settings (For XT32 Datalink Version)



Datalink settings function requires SIYI 2.4GHz or 915MHz datalink, please make sure that you've bought XT32 transmitter datalink version. Before setting datalink, please read datalink sky station's user manual carefully.

Functions



Basic Stts (Basic Settings): Set datalink module's basic functions.

Advance Stts (Advanced Settings): Set auto link function and baud rate.

Bluetooth: Choose the Bluetooth module for your flight controller.

8.1 Basic Settings



Functions

Device: Displays datalink device serial number.

Version: Datalink firmware version.

Power: Turn on / off datalink ground station.

Linking: Link datalink ground station with datalink sky station.

Port: Select a transmitter output way to smartphone or tablet. Available ports: A-USB output, Micro-USB output and Bluetooth output.

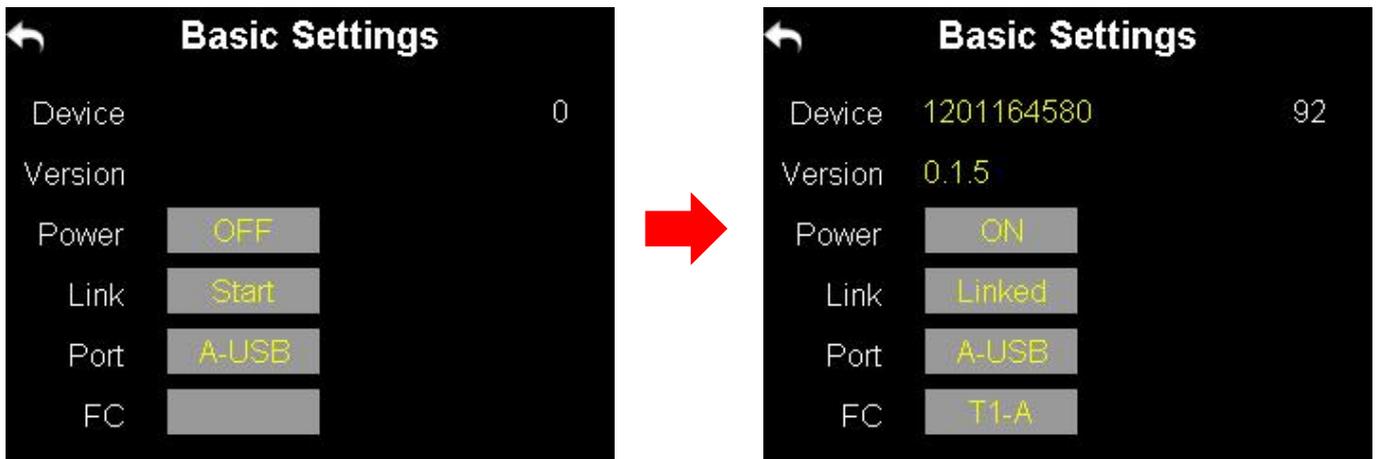
Flight Controller: Select a flight controller. XT32 supports all major flight controllers in market such as TOPXGUN(T1-A), WOOZOOM(THEONE-A), EFY(FINIX200M), BOYING(PALADIN), CHIAO(MATRIX), JIYI(K3-A), PIX, APM, CFUAS(C1-A) and other flight controllers under open source Mavlink agreement flight controllers such as PIX and APM.

Steps to Set Datalink

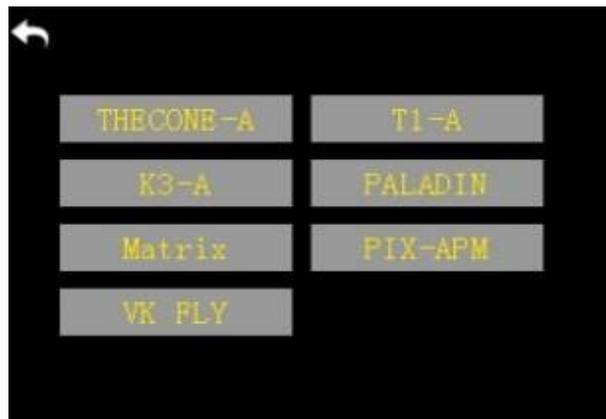
1. In “Datalink Settings” menu, tap on “Power” to turn on / off datalink ground

station;

2. Connect datalink sky station to flight controller, power on flight controller to power datalink sky station; then press down “linking” button on datalink sky station, its status indicator blinks red quickly;
3. Return to “Datalink Settings” menu, tap on “Linking”, datalink ground “Start Linking”;



4. Tap on “Flight Controller” menu, in screen it shows a list of all flight controllers, select your requiring flight controller.



CAUTION

Before connecting transmitter’s Micro-USB port to smartphone or tablet for communication with flight controller, you need to switch Micro-USB port settings to Datalink Mode.

Steps to Switch Transmitter Micro-USB Port Mode

In “System Settings” menu, tap on “Port Settings”; tap on “Micro-USB” to switch port mode from “Parameter” to “Datalink”.

Mark: When you switch Micro-USB port mode to “Datalink”, transmitter can no longer communicate with computer through the port. If you need communication with computer for firmware upgrading, please switch it back to “Parameter”.

8.2 Advanced Settings



Automatic Linking

When datalink sky station is powered on, the automatic linking function is turned on, and receives no signal from datalink ground station in 20 seconds, datalink sky station starts linking to ground station automatically.

Automatic linking function is to simplify procedure. We suggest users to turn on the function when datalink sky station is installed in aircraft body, thus they have no approach to sky station’s linking button.

⚠ CAUTION

Do not turn on automatic linking when you are using more than one pair of datalink sky station and ground station at the same time.

Baud Rate

In “Basic Settings”, if your requiring flight controller type was not there in list, you can set a baud rate to match your flight controller.

Steps to Set Baud Rate

Make sure that datalink sky station is linked with ground station; in “Datalink Settings – Advanced Settings” menu, select “Baud Rate”, tap on your requiring baud rate to finish.

8.3 Bluetooth



Before connecting transmitter to datalink ground station, please select the right external Bluetooth device according to your requiring flight controller.

Standard

Select this device for using any flight controllers except Topxgun ones.

Topxgun

Select this device for Topxgun flight controller.

9 Firmware and Voice Upgrading

XT32 transmitter supports firmware and voice broadcast upgrading.

Please download “SIYI Assistant” software and connect transmitter with computer. Files and software can be downloaded on SIYI Technology’s official website.

Steps to Upgrade Firmware and Voice Broadcast

1. Please visit SIYI Technology’s official website (<http://www.siyi.biz>);
2. In XT32 transmitter product description page, tap on “Downloads”;
3. Select SIYI Assistant software, driver, the latest firmware and voice broadcast files, tap on “Download”;
4. Unzip the files, install SIYI Assistant and driver to computer;

5. When installation is finished, use an USB cable, connect its one end to the Micro-USB port on XT32 transmitter, another end to computer;
6. Open SIYI Assistant, check transmitter's current firmware version; if it was not the latest version, tap on "Upgrade" to firmware upgrading menu;
7. Load the latest firmware, tap on "Upgrade" to upgrade firmware;
8. If you need to upgrade voice broadcast files, please repeat steps 6-7.

10 After-sale Service

10.1 To-be-repair Procedure

If you meet any difficulties using SIYI Technology's product, please consult our after-sale service center or technical support staff on SIYI's official website.

If it was a product defect or damage confirmed which requires a return, replace or repair, then please proceed with after-sale service procedure steps on official website.

SIYI Technology After-sale Service Guide

1. Please visit SIYI Technology official website: <http://www.siyi.biz>;
2. In "Service and Support" menu, tap on "To-be-repair Procedure";
3. Find after-sale service center or technical support staff information and consult them with your product issue;
4. If the issue stays unsolved after confirming with SIYI Tech, then please refer to our after-service for filling in a "To-be-repair" form (personal repair form for individuals, distributor repair form for distributors);
5. Send the bill with product to SIYI Technology for final check or repair;

6. If the product is confirmed damaged or defected by SIYI Technology, it goes in repair procedure. Product will be returned to you after repairing.

10.2 After-sale Policy

SIYI Technology guarantees that, subject to the following conditions, Return & Refund Service, Replacement Service and Warranty Repair Service can be requested. Please contact SIYI or your authorized SIYI dealer for more details.

You will be required to fill out a repair form, which should be sent to us along with the to-be-repaired unit.

10.1.1 7-Day Return & Refund

You can request Return & Refund Service:

Within seven (7) days of receiving a product if the product has no manufacturing defect, has not been activated and is still in new or like-new condition.

Within seven (7) days of receiving a product if the product has a manufacturing defect.

Return & Refund Service will not be provided where:

It is requested beyond seven (7) calendar days of receiving a product.

A product sent to SIYI for Return & Refund Service does not include all original accessories, attachments or packaging, or any item is not in new or like-new condition, i.e. with cracks, dents or scratches.

A legal proof of purchase, receipt or invoice is not provided or is reasonably believed to have been forged or tampered with.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Product labels, serial numbers, waterproof marks, etc. show signs of tampering or alteration.

Damage is caused to the product by uncontrollable external factors, including fire, floods, high winds or lightning strikes.

A product is not delivered to SIYI within seven (7) calendar days after Return & Refund Service confirmation is sent from SIYI.

Other circumstances stated in this policy.

10.1.2 15-Day Replacement

You can request Replacement Service:

Within fifteen (15) calendar days of receiving the product if the product has sustained a substantial damage in transit, provided always that the damage proof issued by the carrier can be provided to SIYI.

Within fifteen (15) calendar days of receiving the product if the product does not match the original description of the product in one or more significant respects.

Within fifteen (15) calendar days of receiving the product if the product suffers performance failure.

Replacement Service will not be provided where:

Service is requested more than fifteen (15) calendars days after receiving a product.

Legal proof-of-purchase, receipts, or invoices are not provided, or are reasonably believed to have been forged or tampered with.

A product sent to SIYI for replacement does not include all original accessories, attachments and packaging, or contains items damaged by user error.

A product is found to have no defects after all appropriate tests are conducted by SIYI.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Damage is caused by uncontrollable external factors, including fires, floods, high winds, or lightning strikes.

Received product has not been sent back to DJI seven (7) calendar days after replacement confirmation from DJI.

Proof of damage during transit issued by the carrier cannot be provided.

Other circumstances stated in this policy.

10.1.3 1-Year Warranty Repair

You can request warranty repair service:

If a product does not function as warranted during the warranty period, you may obtain after-sales service by contacting SIYI's service center. You will need to provide a valid proof-of-purchase, receipt or order number for the warranty service.

Charges may apply for services not covered by this Limited Warranty. Please contact SIYI for information specific to your location.

Please note that the warranty service is only available in the respective SIYI service regions where you purchased your SIYI product.

Warranty Repair service will not be provided where:

Crashes or fire damage caused by non-manufacturing factors, including but not limited to pilot errors.

Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.

Damage caused by improper installation, in correct use, or operation not in accordance with official instructions or manuals.

Damage caused by non-authorized service provider.

Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.

Damage caused by operation in bad weather (i.e. strong winds, rain, sand/dust storms, etc.)

Damage caused by operating the product in an environment with electromagnetic interference (i.e. in mining areas or close to radio transmission towers, high-voltage wires, substations, etc.)

Damage caused by operating the product in an environment suffering from interference from other wireless devices (i.e. transmitter, video-downlink, Wi-Fi signals, etc.)

Damage caused by reliability or compatibility issues when using unauthorized third-party parts.

Damage caused by operating the unit with a low-charged or defective battery.

Products or parts with an altered identification label or from which the identification label has been removed.