FrSky 2.4GHz ACCESS Taranis X9 Lite/Taranis X9 Lite S Manual

Introduction

Taranis X9 Lite/X9 Lite S inherits its classic form factor from the FrSky Taranis X9D series remote control, with the addition of a program scroll button adding convenience when navigating the menu further improving the user experience. Some additions the S version has are dual momentary buttons on the top shoulders and hall sensor gimbals. The changes are not only on the exterior, this upgraded version features Accurate SWR indicator along with the addition of our PARA Wireless Trainer Function, making it compatible with the FrSky Free Link App and AirLink S, while the wired training port is still retained. Balance charging for 2S Li-ion battery is now possible via the USB with an included USB cable

The Taranis X9 Lite/X9 Lite S also uses the latest ACCESS communication protocol, along with ErskyTX/OpenTX open-source operating system, which boasts 24 channels with a faster baud rate and lower latency because of its high-speed module digital interface. ACCESS features like wireless firmware updates and wireless configurations are completely supported, providing a more reliable more secure link between the transmitter and model. Even more practical features will be unlocked gradually, making the X9 Lite/X9 Lite S a fully functioning remote control with a ton of extra features

Due to unforeseen changes in production, the information contained in this manual is subject to change without notice. Pay special attention to safety where indicated by the following marks:

Meanings of Special Markings

ODANGER - procedures which may lead to dangerous conditions and cause death/serious injury if not carried out properly

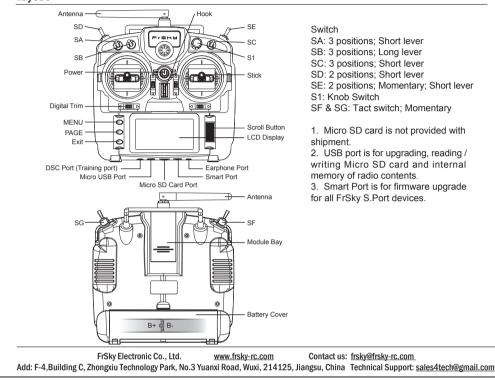
MARNING - Procedures which may lead to a dangerous condition or cause serious injury and even death to the user if not carried out properly or procedures where the probability of superficial injury or physical damage is high.

(CAUTION - Procedures where the possibility of serious injury to the user is small, but there is a danger of injury or physical damage, f not carried out properly

(i)NOTE – Steps, Tips or information

MARNING - Always keep electrical components away from children.

Layout



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▲ Warnings for Battery

Do not remove the battery from the Taranis X9 Lite/Taranis X9 Lite S transmitter while the voltage warning is blinking as this could cause internal settings and memories to be destroyed.

Do not use the transmitter if a "Backup Error" warning occurs.

Specifications

- Dimension: 184*170*101mm (L*W*H)
- Weight: Taranis X9 Lite 505g (without battery) Taranis X9 Lite S 525g (without battery)
- Operating system: ErskyTX/OpenTX
- Number of channels: 24 channels
- Internal RF Module: ISRM-N/ISRM-S-X9
- Operating voltage range: 6.0~8.4V Operating current: 160mA@7.4V
- Operating Temperature: -10°C~60°C (14°F~140°F)
- Backlight LCD resolution: 128*64
- Model memories: 60 models (expandable by Micro SD card)
- Smart Port, Micro SD card slot, Micro USB Port and DSC Port

Features

- Ergonomic and compact design
- Installed with ACCESS protocol
- Supports spectrum analyzer function
- High-speed module digital interface
- G7 Noble potentiometer gimbal (Taranis X9 Lite)
- G7-H92 hall gimbal (Taranis X9 Lite S)
- Supports wired training function
- Haptic vibration alerts and voice speech outputs
- Easily accessible battery compartment (*Batteries not included.adaptive with replaceable 18650 button top Li-ion batteries for X9 Lite/flat-top Li-ion batteries for X9 Lite S)

Comparison List

	Taranis X9 Lite	Taranis X9 Lite S
Operating System	ErskyTX/OpenTX	ErskyTX/OpenTX
Communication Protocol	ACCESS/ACCST D16	ACCESS/ACCST D16
High-speed module digital interface	\checkmark	\checkmark
Wired Training System	\checkmark	\checkmark
Haptic Vibration Alerts	\checkmark	\checkmark
Voice Speech Outputs	\checkmark	\checkmark
Outdoor Legible Backlit LCD	\checkmark	\checkmark
Battery Charging System (via micro USB Port) - 2S Li-battery	×	\checkmark
New PARA wireless training system • High-speed training system with a lower latency • Compatible with FrSky Free Link App and AirLink S via mobile devices	×	~
Accurate SWR indicator	×	N
Additional 2 momentary buttons	×	\checkmark

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About USB 2S Li-battery balance charging

The Green Power indicator LED state

Led on: charging Led off: charge end Led flash: charge fault

(i) Note:

1. Charge the battery with the USB adapter (Voltage:5V+0.2V Current: >2.0A) when you use the USB charging function 2. The lower the initial charging voltage, the better the charging effect is when the voltage difference between the two cells exceed 50 mV

Navigate the Menu

To navigate the menus, Taranis X9 Lite/Taranis X9 Lite S has the following elements:

- Scroll Button
- MENU Button
- PAGE Button

EXIT Button

Taranis X9 Lite/Taranis X9 Lite S supports ErskyTX / OpenTX system

About ErskyTX:

Scroll Button

To navigate menus or widgets, roll the button to left or right as navigation.

MENU Button

To go to the main menu, press the button, and hold for one second.

PAGE Button

To go to switch the page, press the button.

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Enter the MODEL SETUP menu.

Step 1: Set the Mode for Taranis X9 Lite/Taranis X9 Lite S Internal RF.

Press Scroll button or MENU button and hold one second, go to the main menu, select [Model Setup], go to [Protocol], select the [Internal] [Enable], and select [Proto] [Acces].

Step 2: Set the Channel Range

The Internal RF module of Taranis X9 Lite/Taranis X9 Lite S supports up to 24 channels. The channel range is configurable, and needs to be confirmed before use.

Step 3: Set the Receiver Number

When you create a new model, the system will assign you a receiver number automatically, but this can be easily changed. The range of the receiver number is 00-63, with the default number being 01 (use 00 is not recommended). Once the receiver is set to desired number and is bound to the Taranis X9 Lite/Taranis X9 Lite S, the bind procedure will not need to be repeated unless the receiver number is changed. In this case, either set the receiver number to the previous one or repeat the bind procedure.

Step 4: Registration

Note:

Select [Register], press F/S button, and power it on, The display will show the RX xx and press the Menu button or the Scroll button to complete process. then power down the receiver

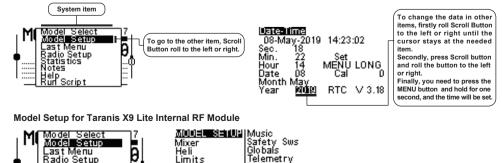
Enable Proto Acce Channels Name	Internal s 24 frsky001		Register Name UID Name	frsky001 O IG-RX8	Regis Name UI Na	frsky001 Registration Ok
RxNum Register Receiver 1	BIND	1			3	Ok

If two or three receivers are used at the same time, the UID should be set to different values

EXIT Button

To exit current page or operation widgets.

Where am I in the menu tree

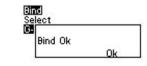


M Model Sel Accessed Last Menu Badio Setu Statistics Notes Help Run Script		ii G nits T po/D.Rate \ .Modes T rves L	Music Jafety Sws Jobals Celemetry JoiceAudio Timers General	
Erotocol Trainer Internal OFF External OFF	En Pr Ch Na Ro Re	atocol Interi able annels me frsk Num gister ceiver 1 G-R	24 cy001 1	
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Step 5: Automatic binding (Smart Match™) Move the cursor to Receiver 1 [BIND], and select it, power your receiver,The display will show the RX xx and press the Menu button or the Scroll button to complete process. the system will confirm "Bind ok". (You do not need to press the "F/S" button in ACCESS Protocol to bind. Refer to the receivers manual for details.)





Step 6: Set Failsafe mode

There are 4 failsafe modes: No pulse, Hold, Custom and receiver. No Pulse: on loss of signal the receiver produces no pulses on any channel. Hold: the receiver continues to output the last positions before signal was lost.

Custom: pre-set to required positions on lost signal

Receiver: set the failsafe on the receiver (see receiver instructions) in ACCESS Protocol.

Step 7: Range

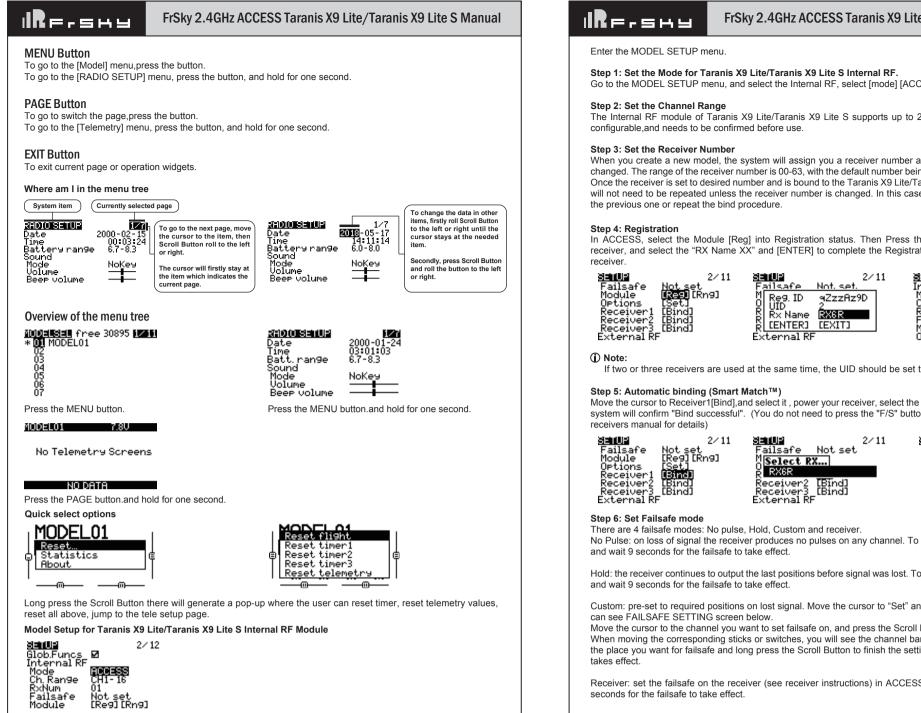
Range refers to Taranis X9 Lite/Taranis X9 Lite S range check mode. A pre-flight range check should be done before each flying session. Move the cursor to [Range Check] and press the Scroll Button. In range check mode, the effective distance will be decreased to 1/30. Press the EXIT to exit.

About OpenTX:

Scroll Button

To navigate menus or widgets, roll the button to left or right as navigation

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Step 7: Range

Range refers to Taranis X9 Lite/Taranis X9 Lite S range check mode. A pre-flight range check should be done before each flying session. Move the cursor to [Rng] and press the Scroll Button. In range check mode, the effective distance will be decreased to 1/30. Press the Scroll Button or EXIT to exit.

Model Setup for Taranis X9 Lite/Taranis X9 Lite S External RF Module

The external RF module can be powered on or off by software. The setup process is the same as that for the internal RF

FCC

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

CE

The product may be used freely in these countries: Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway, France and Iceland.

FLYING SAFETY

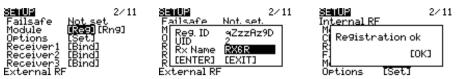
- **∆** Warning:
- To ensure the safety of yourself and others, please observe the following precautions.
- (1) Have regular maintenance performed. Although your X9 Lite protects the model memories with non-volatile
- and of

Go to the MODEL SETUP menu, and select the Internal RF, select [mode] [ACCESS]

The Internal RF module of Taranis X9 Lite/Taranis X9 Lite S supports up to 24 channels. The channel range is

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In ACCESS, select the Module [Reg] into Registration status. Then Press the F/S button and power on your receiver, and select the "RX Name XX" and [ENTER] to complete the Registration process then power down the



If two or three receivers are used at the same time, the UID should be set to different values.

Move the cursor to Receiver1[Bind], and select it , power your receiver, select the RX, and complete the process, the system will confirm "Bind successful". (You do not need to press the "F/S" button in ACCESS to Bind. Refer to the



No Pulse: on loss of signal the receiver produces no pulses on any channel. To use this type, select it in the menu

Hold: the receiver continues to output the last positions before signal was lost. To use this type, select it in the menu

Custom: pre-set to required positions on lost signal. Move the cursor to "Set" and press the Scroll Button, and you

Move the cursor to the channel you want to set failsafe on, and press the Scroll Button

When moving the corresponding sticks or switches, you will see the channel bar moving. Move the channel bar to the place you want for failsafe and long press the Scroll Button to finish the setting. Wait 9 seconds before failsafe

Receiver: set the failsafe on the receiver (see receiver instructions) in ACCESS, select it in the menu and wait 9

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4. Turn on your receiver power

5. Test all controls. If a servo operates abnormally, don't attempt to fly until you determine the cause of the problem.

- 6. Start your engine.
- 7. Complete a full range check

8. After flying, bring the throttle stick to idle position, engage any kill switches or otherwise disarm your motor/ engine

If you do not turn on your system on and off in this order, you may damage your servos or control surfaces, flood your engine, or in the case of electric-powered or gasoline-powered models, the engine may unexpectedly turn on and cause a severe injury.

① Make sure your transmitter can't tip it over. If it is knocked over, the throttle stick may be accidentally moved, causing the engine to speed up. Also, damage to your transmitter may occur.

① In order to maintain complete control of your aircraft it is important that it remains visible at all times. Flying behind large objects such as buildings, grain bins, etc. must be avoided. Doing so may interrupt the radio frequency link to the model, resulting in loss of control.

- S Do not grasp the transmitter's antenna during flight. Doing so may degrade the quality of the radio frequency transmission and could result in loss of control
- S As with all radio frequency transmissions, the strongest area of signal transmission is from the sides of the transmitter's antenna. As such, the antenna should not be pointed directly at the model. If your flying style creates this situation, easily move the antenna to correct this situation.

check-ups for wear and tear. We recommend sending your system to your FrSky Service Center annually during vour non-flving-season for a complete check-up and service.

Battery

① Using a fully charged battery (DC 6.0~8.4V). A low battery will soon die, causing loss of control and a crash. When you begin your flying session, reset your transmitter's built-in timer, and during the session pay attention to the duration of usage. Also, if your model used a separate receiver battery, make sure it is fully charged before each flying session.

 \oplus Stop flying long before your batteries become over discharged. Do not rely on your radio's low battery warning systems, intended only as a precaution, to tell you when to recharge. Always check your transmitter and receiver batteries prior to each flight.

Where to Fly

We recommend that you fly at a recognized model airplane flying field. You can find model clubs and fields by asking your nearest hobby dealer.

 Always pay particular attention to the flying field's rules, as well as the presence and location of spectators, the wind direction, and any obstacles on the field. Be very careful flying in areas near power lines, tall buildings, or communication facilities as there may be radio interference in their vicinity.

At the flying field

(i) To prevent possible damage to your radio gear, turn the power switches on and off in the proper sequence:

- 1. Pull throttle stick to idle position, or otherwise disarm your motor/engine
- 2. Turn on the transmitter power and allow your transmitter to reach its home screen.
- 3. Confirm the proper model memory has been selected.

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${\rm \textcircled{O}}$ Before taxiing, be sure to extend the transmitter antenna to its full length.

A collapsed antenna will reduce your flying range and cause a loss of control. It is a good idea to avoid pointing the transmitter antenna directly at the model, since the signal is weakest in that direction

 \oplus Don't fly in the rain! Water or moisture may enter the transmitter through the antenna or stick openings and cause erratic operation or loss of control. If you must fly in wet weather during a contest, be sure to cover your transmitter with a plastic bag or waterproof barrier. Never fly if lightning is expected.

Updates

FrSky is continuously adding features and improvements to our radio systems. Updating (via USB Port or the Micro SD card) is easy and free. To get the most from your new transmitter, please check the download section of the FrSky website for the latest update firmware and guide for adjusting your sticks. (www.frsky-rc.com)

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