## Introduction

As a portable radio, the FrSky Taranis X9 Lite is a remarkable fusion of traditional radio design with the innovations of the latest ACCESS protocol. The X9 Lite inherits its classic form factor from the FrSky Taranis X9D series remote control, along with completely preserving the comfort of the classic grip design, it also adds a scroll button adding convenience when navigating the menu further improving the user experience. For beginners, the wired training function is retained, allowing beginners to improve their skills with the security of an instructors input upon command.

Like the Taranis X-Lite Pro, the new Taranis X9 Lite also uses the latest ACCESS communication protocol, along with ErskyTX / OpenTX open source operating system, it boasts 24 channels with a faster baud rate and lower latency with a high-speed module digital interface. Additional ACCESS features like wireless firmware updates and wireless configurations will be gradually unlocked, providing a more reliable, more secure link between the remote and model. Making the X9 Lite a fully functioning remote control with tons 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

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

⚠ WARNING - 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, if not carried out properly.

ⓘNOTE – Steps, Tips or information

⚠ WARNING - Always keep electrical components away from children.

Layout
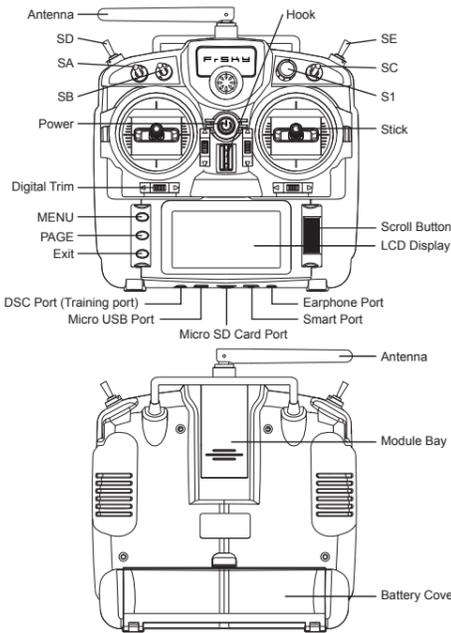
Switch
SA: 3 positions; Short lever
SB: 3 positions; Long lever
SC: 3 positions; Short lever
SD: 2 positions; Short lever
SE: 2 positions, Moment, Short lever
S1: Knob Switch

1. Micro SD card is not provided with shipment.
2. USB port is for upgrading, reading/writing Micro SD card and internal memory of radio contents.
3. Smart Port is for firmware upgrade for all FrSky S.Port devices.

⚠ Warnings for Battery

Do not remove the battery from the X9 Lite 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: 505g (without battery)
- Operating system: ErskyTX / OpenTX
- Number of channels: 24 channels
- Internal RF Module: ISRM-N
- Operating voltage range: 6.0~8.4V
- Operating current: 190mA@7.4V
- Operating Temperature: -10℃~60℃ (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
- 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)

Comparison List

	Taranis X9D Plus	Taranis Q X7	Taranis X9 Lite
Operating System	OpenTX	OpenTX	ErskyTX/OpenTX
Communication Protocol	ACCST	ACCST	ACCESS/ACCST D16
High-speed module digital interface	×	×	√
Wired Training System	√	√	√
Haptic Vibration Alerts	√	√	√
Voice Speech Outputs	√	√	√
Outdoor Legible Backlit LCD	√	√	√
Easily Accessible Battery Compartment	√	√	√
Potentiometer Gimbal	√	√	√
Battery Charging System	√	×	×

Navigate the Menu

To navigate the menus, Taranis X9 Lite has the following elements:
- Scroll Button
- MENU Button
- PAGE Button
- EXIT Button

Taranis X9 Lite 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.

EXIT Button
To exit current page or operation widgets.

Where am I in the menu tree

To go to the other item, Scroll Button roll to the left or right.

To change the data in other items, firstly roll Scroll Button the cursor stays at the needed item.
Secondly, press Scroll button and roll the button to the left or right.
Finally, you need to press the MENU button and hold for one second, and the time will be set.

Model Setup for Taranis X9 Lite Internal RF Module

Enter the MODEL SETUP menu.

Step 1: Set the Mode for Taranis X9 Lite 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 X9 Lite 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

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number and is bound to the X9 Lite, 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
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.

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

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 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.

MENU Button
To go to the [Model] menu,press the button.
To go to the [RADIO SETUP] menu, press the button, and hold for one second.

PAGE Button
To go to switch the page,press the button.
To go to the [Telemetry] menu, press the button, and hold for one second.

EXIT Button
To exit current page or operation widgets.

Where am I in the menu tree

System item   Currently selected page

```
RADIO SETUP        1/7
Date          2000-02-15
Time            00:03:24
Battery range    6.7-8.3
Sound
Mode             NoKey
Volume
Beep volume
```

To go to the next page, move the cursor to the item, then Scroll Button roll to the left or right.

The cursor will firstly stay at the item which indicates the current page.

```
RADIO SETUP        1/7
Date          2018-05-17
Time            14:11:14
Battery range    6.0-8.0
Sound
Mode             NoKey
Volume
Beep volume
```

To change the data in other items, firstly roll Scroll Button to the left or right until the cursor stays at the needed item.

Secondly, press Scroll Button and roll the button to the left or right.

Overview of the menu tree

```
MODELSEL free 30895 1/11
* 01 MODEL01
  02
  03
  04
  05
  06
  07
```

Press the MENU button.

```
RADIO SETUP        1/7
Date          2000-01-24
Time            03:01:03
Batt. range      6.7-8.3
Sound
Mode             NoKey
Volume
Beep volume
```

Press the MENU button.and hold for one second.

```
MODEL01          7.8V

No Telemetry Screens
```

```
        NO DATA
```

Press the PAGE button.and hold for one second.

Quick select options

```
MODEL01
 Reset...
 Statistics
 About
```

```
MODEL01
 Reset flight
 Reset timer1
 Reset timer2
 Reset timer3
 Reset telemetry
```

Long press the Scroll Button there will generate a pop-up where the user can reset timer, reset telemetry values, reset all above, jump to the tele setup page.

Model Setup for Taranis X9 Lite Internal RF Module

```
SETUP              2/12
Glob.Funcs  ☑
Internal RF
Mode         ACCESS
Ch. Range    CH1-16
RxNum        01
Failsafe     Not set
Module       [Reg] [Rng]
```

Enter the MODEL SETUP menu.

Step 1: Set the Mode for Taranis X9 Lite Internal RF.
Go to the MODEL SETUP menu, and select the Internal RF, select [mode] [ACCESS].

Step 2: Set the Channel Range
The Internal RF module of X9 Lite 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 X9 Lite, 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
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 receiver.

```
SETUP          2/11      SETUP          2/11      SETUP          2/11
Failsafe  Not set        Failsafe  Not set        Internal RF
Module   [Reg][Rng]      M Reg. ID  qZzzAz9D      M
Options   [Set]          O UID      2             O Registration ok
Receiver1 [Bind]         R Rx Name  RX6R          R
Receiver2 [Bind]         R [ENTER]  [EXIT]        F        [OK]
Receiver3 [Bind]                                  
External RF              External RF              Options   [Set]
```

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

Step 5:Automatic binding (Smart Match™)
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 receivers manual for details)

```
SETUP          2/11      SETUP          2/11      SETUP          2/11
Failsafe  Not set        Failsafe  Not set        Failsafe  Not set
Module   [Reg][Rng]      M Select RX...           M
Options   [Set]          O RX6R                    R Bind successful
Receiver1 [Bind]         R                          R
Receiver2 [Bind]         Receiver2 [Bind]          O        [OK]
Receiver3 [Bind]         Receiver3 [Bind]
External RF              External RF               Receiver2 [Add]
```

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. To use this type, select it in the menu and wait 9 seconds for the failsafe to take effect.

Hold: the receiver continues to output the last positions before signal was lost. To use this type, select it in the menu and wait 9 seconds for the failsafe to take effect.

Custom: pre-set to required positions on lost signal. Move the cursor to "Set" and press the Scroll Button, and you can see FAILSAFE SETTING screen below.
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 takes effect.

Receiver: set the failsafe on the receiver (see receiver instructions) in ACCESS, select it in the menu and wait 9 seconds for the failsafe to take effect.

Step 7: Range
Range refers to Taranis X9 Lite 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.

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.
ⓘ **Have regular maintenance performed.** Although your X9 Lite protects the model memories with non-volatile EEPROM memory (which does not require periodic replacement) and of a battery, it still should have regular check-ups for wear and tear. We recommend sending your system to your FrSky Service Center annually during your non-flying-season for a complete check-up and service.

Battery
ⓘ 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.

ⓘ **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
ⓘ 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.
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.

ⓘ **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.

ⓘ 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.

⊘ 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.

⊘ 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.

ⓘ **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.

ⓘ **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)

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and manuals