

## Introduction ManufactureFrSky Electronic Co., Ltd.

The FrSky Taranis X9D Plus 2019 is a re-designed version with additions like an additional momentary button placed on the top left shoulder making it ergonomically friendly for DLG pilots to activate launch mode, and features a program scroll wheel making it even easier to navigate the menus. The upgraded MCU is used in conjunction with a re-designed mainboard that further increases the computing capability and increases the data storage. The upgrades not only improve the running of LUA scripts, it also optimizes overall performance like voice speech outputs.

The 2019 version uses the latest ACCESS communication protocol, it boasts 24 channels with a faster baud rate and lower latency with a high-speed module digital interface. Along with the new spectrum analysis function added to the OpenTX firmware, it is now possible to check the airwaves for RF noise. This version will give you a further improved experience based on the classic Taranis remote control. Additionally, tons of extra upgrading features that ACCESS brings will make this an ideal transmitter for any skill level.

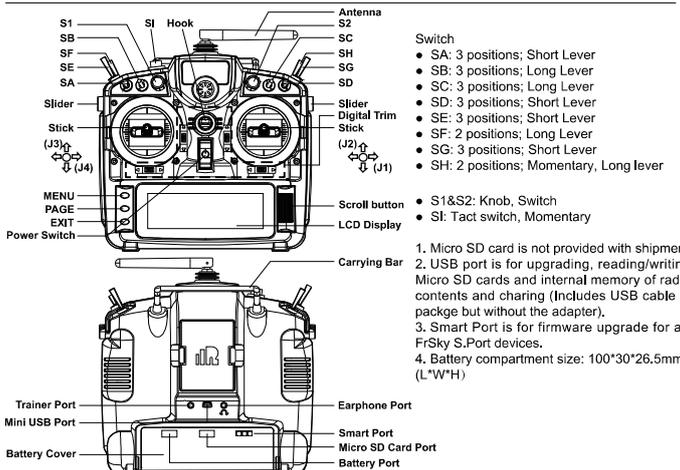
The SE 2019 version is installed with the upgraded switches and M9 hall sensor gimbals and features the addition of a PARA wireless trainer function which makes them compatible with the FrSky Free Link App and AirLink S.

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.
- ℹ NOTE** - Steps, Tips or information
- ⚠ WARNING** - Always keep electrical components away from children.

## Overview



FrSky Electronic Co., Ltd. [www.frsky-rc.com](http://www.frsky-rc.com) Contact us: [frsky@frsky-rc.com](mailto:frsky@frsky-rc.com)  
 Add: F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China Technical Support: [sales4tech@gmail.com](mailto:sales4tech@gmail.com)

## Specifications

- Model name: Taranis X9D Plus 2019/Taranis X9D Plus SE 2019
- Dimension: 200\*194\*110 (L\*W\*H)
- Weight: Taranis X9D Plus 2019: 670g (without battery)  
Taranis X9D Plus SE 2019: 700g (without battery)
- Operating Current: 130mA@8.2V (Typ)
- Backlight LCD resolution: 212\*64
- Model Memories: 60 models (Extendable by Micro SD card)
- Number of channels: 47 channels
- Operating Voltage Range: DC 6.5-8.4V
- Operating Temperature: -10°C-60°C (14°F-140°F)
- Smart Port, Micro SD card slot and USB Port
- OpenTX system

## Features

- Classic Taranis form factor design
- High-speed module digital interface
- Easy Launch Momentary Button
- Installed with ACCESS protocol
- Supports spectrum analyzer function
- SWR indicator
- Haptic vibration alerts and voice speech outputs

## Comparison List

	Taranis X9D Plus 2019	Taranis X9D Plus SE 2019
Operating System	OpenTX	OpenTX
Communication Protocol	ACCST D16 /ACCESS	ACCST D16 /ACCESS
Program Navigation Button	✓	✓
Easy Launch Momentary Button	✓	✓
2S Li-Battery Charging System*	✓	✓
G9D Potentiometer Gimbal	✓	
M9 Hall Sensor Gimbal		✓
Upgraded Switches		✓
Wired Training System	✓	✓
PARA wireless training function		✓
• PARA High-speed training system with a lower latency		✓
• Compatible with FrSky Free Link App and AirLink S via mobile devices		✓

## About USB 2S Li-battery balance charging :

The Green Power indicator LED state:

Led on: charging

Led off: charge end

Led flash: charge fault

### ⓘ 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.

### ⓘ Caution:

Only 2S Li-battery without protective circuit can be applied to balance charging system, and please do not charge any other types of battery.

### ⚠ Warnings for Battery

Do not remove the battery from the X9D Plus 2019/X9D Plus SE 2019 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.

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## Navigate the Menu

To navigate the menus, Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 has the following elements:

- Scroll Button
- MENU Button
- PAGE Button
- EXIT Button

## Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 supports OpenTX system

### 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

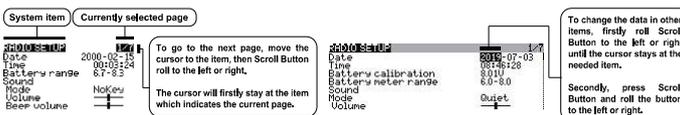
To go to switch the page, press the button.

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



## Overview of the menu tree



Press the MENU button. Press the MENU button, and hold for one second.



Press the PAGE button, and hold for one second.

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## Quick select options



Long press the Scroll Button then 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 X9D Plus 2019/Taranis X9D Plus SE 2019 Internal RF Module



Enter the MODEL SETUP menu.

### Step 1: Set the Mode for Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 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 Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 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 X9D Plus 2019/Taranis X9D Plus SE 2019, 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 [Register] 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.

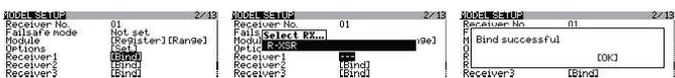


### ⓘ Note:

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)



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**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 X9D Plus 2019/Taranis X9D Plus SE 2019 range check mode. A pre-flight range check should be done before each flying session. Move the cursor to [Range] 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.

① **Have regular maintenance performed.** Although your Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 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**

① Using a fully charged battery (DC 6.5-8.4V). 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.

① **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.

① **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**

① 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.

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.

① 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.

① 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.

① **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.

① **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](http://www.frsky-rc.com))

# DECLARATION OF CONFORMITY

I hereby declare that the product

Description: Digital Telemetry Radio System

Type or model name: Taranis X9D Plus SE 2019, Taranis X9D Plus 2019 , Taranis X9 Lite,Taranis X9 Lite Pro, Taranis X9 Lite S, Taranis X9E ACCESS,Taranis Q X7 ACCESS,Taranis Q X7S ACCESS

Brand name: FrSky

(Name of product, type or model, batch or serial number)

**Hardware version number:** X9DP2019-RF\_REV0.41

**Software version number:** V1.0

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2014/53/EU:

**All essential radio test suites have been carried out.**

**EN 60950-1:2006 + A11:2009 + A1:2010 + A12: 2011 + A2: 2013**

**Draft ETSI EN 301 489-01 V2.2.1(2019-03)**

**Draft ETSI EN 301 489-17 V3.2.0(2017-03)**

**ETSI EN 300 328 V2.1.1(2016-11)**

**EN 50663:2017**

BT 5.0

Frequency Bands:2402-2480 MHz

Modulation Mode: GFSK

Antenna Type: Chip

Antenna Gain:2dBi

EIRP Max power:-6.30dBm

2.4G

Frequency Bands: 2405.5~2474.00 MHz

Modulation Mode: FSK

Antenna Type: DIPOLE

Antenna Gain:2dBi

EIRP Max power:18.11dBm

**NOTIFIED BODY:** PHOENIX TEST-LAB GmbH

– **Address:**

Köningswinkel 10

D-32825 Blomberg

Germany

Identification Number: 0700

**MANUFACTURER or AUTHORISED REPRESENTATIVE:**

– **Address:**

FrSky Electronic Co., Ltd.

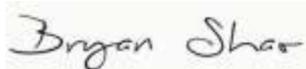
F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorised representative.

**Point of contact:**

2019-09-25

(Signature)



Name (in block letter)

Bryan Shao

Title (in block letter)

Engineer

Company Name

FrSky Electronic Co., Ltd.

Address

F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China

Tel / Fax

+86-0510-82606377/+86-0510-82608677

Email

shaobo111@126.com

## CE Maintenance

1. Use careful with the earphone maybe excessive sound pressure from earphones and headphones can cause hearing loss.



2.The product shall only be connected to a USB interface of version USB2.0.

3.EUT Operating temperature range: -10° C to 60° C .

4.Adapter :

The plug considered as disconnect device of adapter

Input: DC 6.5V-8.4V, 130mA

5.The device complies with RF specifications when the device used at 0mm from your body.

6.To prevent possible hearing damage. Do not listen at high volume levels for long periods.

### Declaration of Conformity

FrSky Electronic Co., Ltd. hereby declares that this Digital Telemetry Radio System is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.In accordance with Article 10(2) and Article 10(10),This product is allowed to be used in all EU member states.



## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.