



Notice: Older V8 receivers are not supported by the internal module but can be used with an external DJT module in V8 mode. Taranis X9D Plus-EU version only has D16-EU mode.

	FrSky Electro	nic Co. Ltd		



E-mail: frsky@frsky-rc.com Technical Support: sales4tech@gmail.com A Cautions on handling antenna

O Do not touch the antenna during operation. Doing so could interfere with transmission, causing a crash.

Rotating Antenna

O Do not carry the transmitter by the antenna. The antenna wire could break and prevent transmission.

O Do not pull the antenna forcefully. The antenna wire could break and prevent transmission.



The antenna can be rotated 180 degrees and angled 90 degrees. Forcing the antenna further than this can cause damage to the antenna. The antenna is not removable.

#### Angle adjustment of the antenna

The antenna rotation and angle can be adjusted. The antenna features week radio signal in the forward direction and strong radio signal in the sideways directions. Adjust the antenna angle to match your flying style

Operating Temperature: -10~60°C

Backlight LCD Screen: 212'04, 2 court commences to server. Model Memories: 60 (extendable by SD card) Compatibility: FrSky X series, D series and V&-II series receivers (plus other receivers if an external module is used) Taranis X9D Plus-EU version is only compatible with X series receiver EU version.

- Quad Ball Bearing Gimbals
- Receiver Signal Strength Indicator (RSSI) Alerts
- Super Low Latency Smart Port Supported
- Vibration Aler

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Step 2: Set the Channel Range The internal RF module of Taranis X9D Plus supports up to 16 channels. The channel range is configurable, and needs double check 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 o 00 is not recommended). Once the receiver is set to the desired number and is bound to the Taranis X9D Plus, 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, repeat the bind oncedure imber to the previous one, repeat the bind procedure.

Step 4: Bind Bind refers to Taranis X9D Plus binding mode. Move the cursor to "Bind", press ENTER button, the cursor will flash and the speaker will beep to remind you that the RF module has entered the bind mode. Then put your receiver into binding mode and finish the bind procedure(refer to the receiver's manual for details). Press Enter or EXIT to exit,

Step 5: Set Failsafe mode

- Step 5: Set Failsate mode There are 4 failsafe modes: No Pulse, Hold, Custom, Receiver (this mode only used above opentx-v2.0.0 firmware) 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
- 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 ENTER, you will see FAILSAFE SETTING screen below. Move the cursor to the channel you want to set failsafe on, and press ENTER. When moving the cursor points discs or switches, you will see the channel bar to the place you want for failsafe and long press ENTER to finish the setting. Wait 9 seconds before the failsafe takes effect. Receiver; set the failsafe on the receiver(see receiver instructions) in D16 mode, select it in the menu and wait 9 seconds for the failsafe to take effec.

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#### Notice:

The above instructions do not apply to D-series and Lesreirs receivers, which require the internal RF module of Taranis XBD Plus to be in D8 mode or LR12 mode. For these receivers, failisate must be set on the receiver side (see receiver instructions).

Step 6: Range Range refers to Taranis X9D Plus range check mode. A pre-flight range check should be done before each flying session. Move the cursor to "Range" and press ENTER. In range check mode, the effective distance will be decreased to 1/30. Press Enter or EXIT to exit.

Model Setup for Taranis X9D Plus External RF Module

Internal RF Mode	
Mode	
Channel Range CH1-16 Receiver No. 01 [Bind]	[Pando]
Failsafe mode Hold	rranaet.
External RF	
ModuleOEE	

The external RF module can be powered on or off by software. The setup process is the same as that for the internal RF. If you use other brand RF module than FrSky, please choose PPM mode.

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Technical Support: sales41ech@email.com



www.sisky.st.au

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# Fr<sup>®</sup>5KY Where to Flv

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

Q 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, tail buildings, or communication facilities as there may be radio interference in their vicinity.

# 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.

FCC Statement

Make sure you set the country code to your corresponding country to match the regulations

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 corract the interference by one or more of the following measures: -Recrinet or relocate the receiving antenna. -Increase the separation between the equipment and receiver. -Connect the equipment indo 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.

#### RF warming statement:

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



Battery © Chargo the batteries! Using the standard Taranis battery and charger, always recharge the transmitter and receiver batteries for at least 8 hours before each flying session. A low battery will soon die, causing loss of control and a crach. When you begin your hying session, need your transmitter a ball-in timer, and during the session pays alterition to the duration of usage. Nac, if your mode uses a separate receiver, battery, make sure it is fully charged before each Tying session.

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

Website:<u>www.frskv-rc.com</u>

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NAME STREET CONT

#### Nickel-metal hydride Battery Safety and Handling instructions

IMPORTANTI The Nickel-metal Hydride battery (NIMH) batteries included in the TARANIS X9D Plus transmitter are not to be confused with Lithlum-Polymer (LIPo) batteries, or any other type of rechargeable battery (including NiCd and LIP6). NIMH batteries require special charging oriteria different than other rechargeable batteries. Use only the FrSky transmitter charger included with this set for, or other chargers approved by FrSky, to charge the NIMH batteries in the TARANIS X9D Plus transmitter.

S Do not attempt to disassemble NIMH packs or cells,

- O Do not allow NIMH cells to come in contact with moisture or water at any time.
- Aways provide adequate ventilation around NIMH batteries during charge, discharge, while in use, and during elorage.
- O not leave a NIMH battery unattended at any time while being charged or discharged.
- O Do not attempt to charge NIMH batteries with a charger that is NOT designed for NIMH batteries, as permanent damage to the battery and charger could result.
- Aways charge NIMH batteries in a fireproof location. Do not charge or discharge NIMH batteries on carpet, a cuttered workbench, near paper, plastic, vinyl, leather or wood, or inside an RIC model or full-sized automobile! Monitor the charge area with a smoke or fire alarm.
- O not charge NIMH batteries at currents greater than the "10" rating of the battery ("C" equals the rated capacity of the battery).
- O not allow NIMH cells to overheat at any time! Cells which reach greater than 140 degrees. Fahrenheit(60°C) should be placed in a freproof location.
- NIMH cells will not charge fully when too cold or show full charge.
  It is normal for the batteries to become warm during charging, but if the charger or battery becomes excessively hot disconnect the battery from the charger immediately! I Aways inspect for potential damage any battery which has previously overheated for potential damage, and do not re-use if you suspect it has been damaged in any way.
- O Do not use a NIMH battery if you suspect physical damage has occurred to the pack. Carefully inspect the battery for even the smallest of denits, cracks, splits, punctures or damage to the wiring and connectors. DO NOT allow the battery's internal electrolyte to get into eyes or no skin—wash affected areas immediately if they come in.

Secure Digital (SD) Memory Card Handling Instructions

FrSky Electronic Co., Ltd E-mail: <u>frsky@frsky-rc.com</u>

#### MicroSD Catd

Website:<u>www.frskv-rc.com</u>



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At the flying field To prevent possible damage to your radio gear, turn the power switches on and off in the proper sequence;
 Pull through the proper model memory has been selected.
 Turn on the transmitter power and allow your transmitter to reach its home screen.
 Confirm the proper model memory has been selected.
 Turn on your receiver power.
 Test all controls. If a serve operates abnormally, don't altempt to fly until you determine the cause of the problem. (For PCM systems only: Test to ensure that the Fallstate settings are correct by waiting all least 2, minutes after adjusting then, turning the transmitter off and confirming the proper surface/throttle movements. Turn the transmitter back on;
 Start your engine.
 Complete a full range check.
 After fing, bring the throttle stick to idle position, engage any kill ewitches 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. O Make sure your transmitter can't tip it over, if it is knocked over, the thrattle stick may be accidentally moved causing the engine to speed up. Also, damage to your transmitter may occur. O 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. O Do not grasp the transmitter's antenna during fight. Doing so may degrade the quality of the radio frequency transmission and could result in loss of control. O As with all radio frequency transmissions: the strongest area of signal transmission is from the addes of the transmitter's antenna. As such, the antenna should not be pointed directly at the model. If your flying siyle creates this situation, easily move the antenna to correct the situation. O Before taxling, 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 erraits openation or loss of control. If you must fly in wel weather during a contest, be sure to cover your transmitter with a plastic beg or waterproof barrier. Never fly, if ighthing is expected. FrSky Electronic Co., Ltd E-mail: frsky@frsky-rc.com Technical Support: sales4tech@gmail.com Website:www.frsky.rc.com





#### Read data from a PC

Music and image files edited by a PC can be transferred onto the MicroSD card and used on your TARANIS X9D Plus transmitter. Equipment for reading and writing MicroSD cards is available at most electronics stores.

#### Stored data

The life of the MicroSD card is limited due to the use of Flash memory. If you have a problem saving or reading data such as picture data after a long period of use you may need to purchase a new MicroSD card. • We are not responsible for, and cannot compensate for any failure to the data stored in the memory card for any reason.Be sure to keep a backup of your models and data in your MicroSD card. • TARANIS X9D Plus transmitters and MicroSD cards use non-volatile memory devices so that the data stored is retained, even without a backup battery. Nevertheless, it is good practice to back up the data in the transmitter to the MicroSD card. The clock for the transmitter does depends on the lithium battery, which may need to be replaced occasionally.

You will find a variety of files such as videos, artworks for icons, voice files, detailed user guide, etc. on the pre-installed MicroSD card in Taranis X9D Plus battery compartment.

FrSky is continuously adding features and improvements to our radio systems. Updating (via the pre-installed MicroSD card in Taranis XBD Plus battery compartment) is easy and free. To get the most from your new transmitter, please check the download section of the FrSky website <u>www.frsky-rc.com</u>, for the latest update firmware and how-to guide.

All FrSky radio systems will have open source firmware. Do not hesitate to contact FrSky if you have ideas and suggestions for current and future radio systems, or if you are willing to join the FrSky developing union to be part of the projects.

The currently pre-installed firmware of FrSky Taranis X9D Plus is modified openTX firmware, improved and well tested by FrSky and the developing union. \* More information about openTX can be found on: <u>http:/openrcforums.com</u>.

Website:www.frsky-rc.com

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# Fr®SKY



# RE DIRECTIVE 2014/53/EU

Certificate Number	RE-17060928
Certificate Holder	FrSky Electronic Co., Ltd.
Address	F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China
Manufacturer	FrSky Electronic Co., Ltd.
- Address	F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China
Product Type/Description	Digital Telemetry Radio System
Trade Name	FrSky
Model Number	TARANIS X9D_PLUS, X9E, X9D-SE, X10, X10S, X10 PLUS
Product Identification Element	TARANISX90209EK

Applie	d / Complied Harmonized Standards	Complied
RE Directive 2014/53/EU, Article 3(1)(a) ■ Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	Y
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health	EN 62311:2008	Ŷ.
RE Directive 2014/35/EU, Article 3(1)(b) ■ EMC	EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1	Y
RE Directive 2014/53/EU, Article 3(2) ■ Radio	EN 300 328 V2.1.1	Y

Authorized By: Ba

Issue Date: June 09, 2017

Leslie Bai, Director of Certification

Expiry Date: June 08, 2022

PS: This Certificate is Issued in Accordance with Annex III of the RE Directive 2014/53/EU and is only valid in Conjunction with the Following Annex I. 775 Monlague Expressway, Milpitas, CA 95035, USA Tel: 408 526 1188, Fax: 408 526 1088,

Website: www.siemic.com, Email: info@siemic.com

# Annex I of RED EU-TYPE Examination Certificate

# Certificate Number: RE-17060928

	Product Specifications
Frequency Range	2405-2474 MHz
RF Output Power (EIRP)	19.5 dBm
Type of Antenna	External Antenna
Modulation	2-FSK
Mode of Operation (Simplex / Duplex)	Duplex (Tx/Rx)
Duty Cycle	-
Comments	

# **Technical Documentation Identification**

Test Report			
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health & Safety	17020332-CE-S 17020332-CE-H1 17020332-CE-E1		
RE Directive 2014/53/EU, Article 3(1)(b)			
RE Directive 2014/53/EU, Article 3(2) ■ Radio	17020332-CE-R1		
User Manual			
Product Label			
Block Diagram			
Circuit Diagram			
PCB Layout			
Product Specification			
BOM			
Declaration of Conformity			
Risk Assessment			

Based on the evidence presented, our certificate in accordance with Annex III of Council Directive 2014/53/EU on Radio Equipment Directive and the mutual recognition of their conformity is that the apparatus identified above complies with the requirements of that Directive stated above.

Note: Compliance with the above Directive does not guarantee the right to use the above mentioned equipment in any EU member state. No configuration, other than described above, has been considered and is therefore not included in this certificate.

> 775 Montague Expressway, Milpitas, CA 95035, USA Tel: 408 526 1188, Fax: 408 526 1088

Website: WWW.SIEMIC.COM, email: info@siemic.com

Please check the validation of this certificate at http://certdatabase.siemic.com/siemic db/public/certverification.asp

**TCB** 

# GRANT OF EQUIPMENT AUTHORIZATION

# ТСВ

Certification Issued Under the Authority of the Federal Communications Commission By:

> Siemic Inc. 775 Montague Expressway Milpitas, CA 95035

Date of Grant: 06/20/2013

Application Dated: 06/20/2013

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FrSky Electronic Co., Ltd. No.100 Jinxi Road ,Wuxi,Jiangsu,China Wuxi,Jiangsu,, China

# **Attention: Bryan Shao**

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### NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

-	FCC IDENTIFIER:	XYFX91216DK
	Name of Grantee:	FrSky Electronic Co., Ltd.
	Equipment Class: Notes:	Part 15 Spread Spectrum Transmitter Digital Telemetry Radio System
		Frequency Emission
Grant Notes_	FCC Rule Parts	Range (MHZ) Watts Tolerance Designator
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Power listed is the maxi	mum conducted output	power
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