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FrSky FRS03010130

FrSky Taranis X9D Plus 2019 User Manual

Model: FRS03010130

Introduction

Welcome to the user manual for the FrSky Taranis X9D Plus 2019 ACCST D16 /Access Telemetry Radio. This advanced FPV transmitter is designed for enthusiasts seeking high performance and versatility. The 2019 version features significant upgrades, including an enhanced MCU, a re-designed mainboard for increased computing capability and data storage, and the latest ACCESS communication protocol. It offers 24 channels, faster baud rates, lower latency, and a high-speed module digital interface. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Taranis X9D Plus 2019.

Product Overview

The Taranis X9D Plus 2019 retains the classic Taranis form factor while introducing new ergonomic features and technological advancements. Key features include:

- **Classic Taranis Form Factor:** Familiar and comfortable design.
- **Easy Launch Momentary Button:** An additional button on the top left shoulder, ideal for DLG pilots.
- **Program Navigation Button:** A scroll wheel for easier menu navigation.
- **High-Speed Module Digital Interface:** Ensures rapid communication.
- **ACCESS Protocol:** Supports 24 channels with faster baud rate and lower latency.
- **Spectrum Analyzer Function:** Allows checking airwaves for RF noise (with OpenTX firmware).
- **SWR Indicator Warning:** Provides alerts for antenna standing wave ratio.
- **G9D Potentiometer Gimbal:** For precise control.
- **Haptic Vibration Alerts and Voice Speech Outputs:** Enhanced user feedback.
- **Wired Training Function:** Supports trainer mode for learning.
- **Smart Port, Micro SD Card Slot, and DSC Port:** For connectivity and expansion.
- **Mini USB Interface:** Supports 2S Li-battery balancing charge.
- **60 Model Memories:** Expandable via Micro SD card.
- **Compatibility:** Works with ACCST D16 and ACCESS receivers.



Figure 1: Front view of the FrSky Taranis X9D Plus 2019 FPV Transmitter, showcasing its classic design, dual gimbals, and LCD screen.



Figure 2: The Taranis X9D Plus 2019 with its LCD screen displaying "Open TX", indicating the open-source firmware.



Figure 3: Rear view of the FrSky Taranis X9D Plus 2019, showing the external module bay and USB port.

Setup

1. Initial Charging and Battery Installation

The Taranis X9D Plus 2019 supports 2S Li-battery balancing charge via its Mini USB interface. Ensure the battery is fully charged before first use. If your model did not come with a pre-installed battery, carefully insert it into the battery compartment located at the rear of the transmitter, ensuring correct polarity. Connect the battery's balance lead to the appropriate port if using for balancing charge.

2. Powering On/Off

- **To Power On:** Press and hold the power button (located below the central FrSky logo) for approximately 4 seconds until the radio vibrates and the screen illuminates.
- **To Power Off:** Press and hold the power button until the shutdown prompt appears, then confirm.

3. Firmware and OpenTX

The Taranis X9D Plus 2019 runs on OpenTX firmware, an open-source operating system known for its flexibility and extensive features. It is highly recommended to update to the latest stable version of OpenTX upon receiving your transmitter. This process typically involves connecting the transmitter to a computer via USB and using the OpenTX Companion software. Refer to the OpenTX official documentation for detailed flashing instructions.

4. Binding with Receivers

To establish communication between your transmitter and a receiver, you must perform a binding procedure. The Taranis X9D Plus 2019 supports both ACCST D16 and ACCESS protocols. The binding process varies slightly depending on the receiver and protocol. Generally, it involves putting both the transmitter and receiver into bind mode. Consult your receiver's manual for specific binding steps.

Operating Instructions

1. Navigation and Controls

The transmitter features a monochrome LCD screen and several buttons for navigation:

- **MENU Button:** Accesses the main menu.
- **PAGE Button:** Navigates between pages within a menu.
- **EXIT Button:** Returns to the previous screen or exits a menu.
- **Program Navigation Button (Scroll Wheel):** Used for scrolling through options and confirming selections by pressing.
- **Gimbals:** Control the primary flight surfaces (aileron, elevator, rudder, throttle).
- **Switches (SA, SB, SC, SD, SE, SF, SG, SH):** Assignable switches for various functions (e.g., flight modes, gear, flaps).
- **Potentiometers (S1, S2):** Rotary knobs for proportional control of auxiliary channels.

2. Model Setup

OpenTX allows for extensive customization of model settings. To set up a new model:

1. Press the **MENU** button to enter the main menu.
2. Navigate to the "MODEL SELECT" screen.
3. Select an empty model slot or create a new one.
4. Configure model type (e.g., airplane, helicopter, multirotor), channel order, mixes, curves, and logical switches as needed.
5. Save your settings.

Detailed instructions for advanced model setup can be found in the OpenTX manual, which is available online and highly recommended for users to explore the full capabilities of the transmitter.

3. Telemetry and Spectrum Analyzer

When paired with compatible FrSky telemetry receivers, the Taranis X9D Plus 2019 can display real-time data such as battery voltage, RSSI (Received Signal Strength Indicator), and GPS coordinates. The integrated spectrum analyzer function, accessible through OpenTX, allows you to scan the 2.4GHz band for RF noise, helping to identify potential interference sources for safer flying.

Maintenance

1. Cleaning

Regularly clean the exterior of your transmitter with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the finish or screen. Keep the gimbals and switches free from dust and debris.

2. Firmware Updates

FrSky and the OpenTX community frequently release firmware updates that improve performance, add new features, and fix bugs. It is crucial to keep your transmitter's firmware updated. Always back up your model settings and SD card contents before performing any firmware update. Instructions for updating are typically provided with the firmware release

on the OpenTX website.

3. Battery Care

To prolong battery life, avoid overcharging or completely discharging the internal battery. Store the transmitter in a cool, dry place when not in use, especially for extended periods. If using a removable LiPo battery, follow standard LiPo safety guidelines for charging and storage.

4. Storage

When storing the transmitter, especially for long durations, ensure it is powered off. It is recommended to store it in a protective case to prevent physical damage to the gimbals, switches, and screen.

Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Low or dead battery; incorrect power-on procedure; firmware issue.	Charge the battery. Ensure you hold the power button for 4 seconds. If still unresponsive, try flashing firmware in bootloader mode (refer to OpenTX documentation).
Receiver not binding.	Incorrect protocol selected (ACCST D16/ACCESS); receiver too far/close; receiver not in bind mode; firmware mismatch.	Verify the correct protocol is selected in the model settings. Ensure both transmitter and receiver are in bind mode. Update firmware on both transmitter and receiver if necessary.
Controls are unresponsive or erratic.	Incorrect model setup; channel mapping issues; interference; damaged gimbal/switch.	Check model setup in OpenTX Companion. Perform a range check. Check for physical damage to controls. Use spectrum analyzer to check for RF noise.
SD card errors.	Corrupted SD card; incompatible SD card; incorrect file structure.	Format the SD card (FAT32) and copy the correct OpenTX SD card contents. Try a different SD card.

For more in-depth troubleshooting, consult the extensive resources available on the OpenTX website and community forums. Many common issues have documented solutions.

Specifications

Feature	Detail
Product Dimensions	7.9 x 7.6 x 3.9 inches
Item Weight	2.55 pounds (without battery)
Model Number	FRS03010130
Manufacturer Recommended Age	14 years and up
Communication Protocol	ACCST D16 / ACCESS
Channels	Up to 24 (with ACCESS protocol)
Gimbal Type	G9D Potentiometer Gimbal
Charging Interface	Mini USB (supports 2S Li-battery balancing charge)

Feature	Detail
Memory	60 models (expandable via Micro SD card)

Warranty and Support

Warranty Information

For specific warranty terms and conditions, please refer to the official FrSky website or contact your point of purchase. Warranty coverage typically includes manufacturing defects for a specified period from the date of purchase. Keep your proof of purchase for warranty claims.

Customer Support

For technical support, troubleshooting assistance, or inquiries regarding your FrSky Taranis X9D Plus 2019, please utilize the following resources:

- **FrSky Official Website:** Visit www.frsky-rc.com for product information, downloads, and support contacts.
- **OpenTX Community:** The OpenTX project has a vibrant and helpful community. Their website (www.open-tx.org) offers extensive documentation, forums, and software downloads.
- **Online Forums and Groups:** Many RC hobby forums and social media groups are dedicated to FrSky products and OpenTX, where experienced users can provide assistance.

When seeking support, be prepared to provide your product model number (FRS03010130) and a detailed description of the issue.

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