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FrSky Twin X-Lite

FrSky Twin X-Lite Transmitter Dual 2.4G Radio System User Manual

Model: Twin X-Lite

1. INTRODUCTION

The FrSky Twin X-Lite is a compact and ergonomic dual 2.4G radio system designed for remote control applications. It features the innovative TW active-active protocol, which utilizes dual 2.4G frequency bands simultaneously for enhanced reliability, lower latency, and wider coverage compared to traditional single-antenna systems. This transmitter also supports ACCST D16, ACCESS, and ELRS 2.4G (Compatible) modes, offering broad compatibility with various receivers. The integrated 3.5-inch color touch slide screen and customizable controls provide a versatile user experience.

2. KEY FEATURES

- Ergonomic and Compact Lightweight design
- Slide Screen Design with 3.5-inch Color Touch-Screen Display
- 6 Trims & 4 Quick-Mode Custom Buttons
- 2 Momentary Buttons & 2 Sliders & 4 Switches on the Top
- Lite Type External Module Bay
- Foldable Tab for Attaching Radio Strap
- Built-in Dual 2.4G Band Internal RF Module supporting ACCST D16 / ACCESS / ELRS (Compatible) / TW Mode
- TW Mode: Highly resilient RF module providing dual 2.4G signals working simultaneously
- Long-range control (range varies based on RF Power settings)
- Low-latency (<4ms) supporting full telemetry
- Built-in 1G Flash Storage
- External TF card slot for storage extension
- Haptic Vibration Alerts and Voice Speech Outputs
- Supports Recharge System for 2S Li-ion Battery
- High-Speed PARA Wireless Training System
- ETHOS Operating System

3. SETUP

3.1. Unboxing and Initial Inspection

Carefully remove the Twin X-Lite transmitter from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the product packaging are present.

3.2. Battery Installation and Charging

The Twin X-Lite includes a 2100mAh Li-ion battery. The battery bay is easily accessible for installation or replacement. To charge the battery, connect a Type-C USB cable to the charging port on the transmitter and a suitable USB power source. The charging status will be indicated on the screen.



Figure 3.2.1: Rear view of the Twin X-Lite, highlighting the battery compartment.

3.3. Powering On/Off

To power on the transmitter, locate the power button, typically found under the slide screen. Press and hold the power button until the screen illuminates. To power off, press and hold the power button again until the shutdown sequence is complete.

3.4. Screen Operation

The 3.5-inch color touch-screen allows for intuitive navigation of the ETHOS operating system. The screen can be slid upwards to reveal additional controls and the power button. Use touch gestures (tap, swipe) to interact with menus and settings.



Figure 3.4.1: Twin X-Lite with the slide screen extended, showing additional controls.

3.5. Binding to a Receiver

Refer to the specific receiver's manual for detailed binding procedures. Generally, the process involves putting the receiver into binding mode and then initiating the binding sequence on the Twin X-Lite transmitter through the ETHOS operating system's RF system settings. Ensure both the transmitter and receiver are set to the same RF protocol (e.g., TW Mode, ACCESS, ACCST D16, or ELRS Compatible).

4. OPERATING INSTRUCTIONS

4.1. RF Protocols and TW Mode

The Twin X-Lite supports multiple RF protocols: ACCST D16, ACCESS, ELRS 2.4G (Compatible), and TW Mode. The TW Mode is an active-active dual 2.4G system, providing enhanced signal reliability and reduced latency. Select the appropriate protocol in the model settings to match your receiver.

4.2. Controls Overview

The transmitter features precision gimbals for primary control inputs. Six trims (four standard, two additional) allow for fine

adjustments. Four quick-mode customizable buttons, two momentary buttons, two sliders, and four switches are strategically placed for easy access and customization within the ETHOS system. The momentary buttons are designed for increased durability and comfort.



Figure 4.2.1: Front view of the Twin X-Lite, illustrating gimbals and primary controls.



Figure 4.2.2: Top view of the Twin X-Lite, showing switches and sliders.

4.3. Storage Management

The transmitter includes 1GB of built-in flash storage for models, sounds, and other system files. An external TF card slot is available for additional storage capacity, allowing for extensive model memory and media files.



Figure 4.3.1: Side view of the Twin X-Lite, showing ports including the TF card slot.

4.4. Haptic and Voice Alerts

The Twin X-Lite provides haptic vibration alerts and voice speech outputs to inform the user of critical system statuses, telemetry data, and warnings. These features can be configured within the ETHOS operating system.

4.5. Wireless Training System

The High-Speed PARA Wireless Training System allows for wireless trainer/student functionality, enabling experienced pilots to teach new users without the need for a physical trainer cable.

4.6. ETHOS Operating System

The transmitter runs on the ETHOS operating system, which provides a comprehensive and customizable interface for model setup, system configuration, and flight adjustments. Detailed information on ETHOS functionality can be found in the dedicated ETHOS manual available on the FrSky website.

5. MAINTENANCE

5.1. Battery Care

Regularly charge the 2S Li-ion battery using the integrated Type-C charging port. Avoid over-discharging or over-charging the battery to prolong its lifespan. If storing the transmitter for extended periods, ensure the battery is charged to approximately 50% capacity.

5.2. Cleaning

Clean the transmitter's exterior with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, ensuring no moisture enters any openings. Avoid using harsh chemicals or abrasive materials.

5.3. Storage

Store the Twin X-Lite in a cool, dry place away from direct sunlight and extreme temperatures. Protect the gimbals and screen from physical impact. Consider using a protective case for transport and long-term storage.

6. TROUBLESHOOTING

6.1. Transmitter Not Powering On

- Ensure the battery is fully charged.
- Verify the battery is correctly installed in its compartment.
- Try connecting the Type-C charger to see if the charging indicator appears.

6.2. Binding Issues

- Confirm that both the transmitter and receiver are set to the same RF protocol (e.g., TW Mode, ACCESS).
- Ensure the receiver is in binding mode as per its manual.
- Keep the transmitter and receiver in close proximity during the binding process.
- Check for firmware compatibility between the transmitter and receiver.

6.3. Range or Signal Loss

- Ensure the transmitter antennas are properly positioned and not obstructed.
- Verify the receiver antenna placement in the model for optimal signal reception.
- Check for potential sources of interference in the operating environment.
- Confirm the RF power settings on the transmitter are appropriate for the operating conditions.

7. SPECIFICATIONS

Feature	Detail
Brand	FrSky
Model	Twin X-Lite
ASIN	B074L5N9YY
Special Feature	Digital Display
Max Number of Supported Devices	1
Compatible Devices	Drone
Date First Available	July 22, 2025

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official FrSky website or contact FrSky customer service directly. Keep your proof of purchase for warranty claims. Firmware updates and additional resources for the ETHOS operating system are also available on the FrSky support page.

FrSky Official Website: www.frsky-rc.com