FrSky Horus X10S Express

FrSky Horus X10S Express Radio Transmitter User Manual

Model: Horus X10S Express

1. Introduction

The FrSky Horus X10S Express is an advanced 24-channel radio transmitter designed for various RC models, including gliders, helicopters, multirotors, and fixed-wing aircraft. This manual provides essential information for setting up, operating, and maintaining your Horus X10S Express transmitter.

Featuring an industrial LCD color screen, high-accuracy MC12P hall sensor gimbals, and the ACCESS communication protocol, the Horus X10S Express offers precise control and a robust link for your RC activities. It also includes a spectrum analysis function and supports balancing charge for 2S Li-ion batteries.

2. Key Features

- High-speed module digital interface with installed ACCESS protocol.
- Supports spectrum analyzer function for checking airwaves for RF noise.
- New PARA wireless training system for high-speed, low-latency training.
- Compatible with FrSky Free Link App and AirLink S via mobile devices.
- Dual internal antennas and a single detachable external antenna for robust link.
- Antenna detection and SWR warning.
- Industrial LCD: 480*272 readable outdoor color screen.
- Supports 2S Li-battery balancing charge via Mini USB interface.
- Easily accessible battery compartment (batteries not included).
- MC12P all CNC digital higher accuracy ten bearings hall sensor gimbals and extendable stick ends.

3. Setup Guide

3.1 Battery Installation

The Horus X10S Express requires two 18650 Li-ion batteries (not included). The battery compartment is designed for easy access.

1. Locate the battery compartment cover on the back of the transmitter.
2. Open the cover and insert two 18650 Li-ion batteries, ensuring correct polarity.
3. Close the battery compartment cover securely.



Image: Rear view of the FrSky Horus X10S Express, highlighting the accessible battery compartment.

3.2 Initial Charging

Before first use, fully charge the installed 2S Li-ion batteries. The transmitter supports balancing charge via its Mini USB interface.

- Connect the Mini USB cable to the transmitter's USB port.
- Connect the other end of the USB cable to a 5.0V USB adaptor with a current output greater than 2.0A.
- The charging indicator on the transmitter will show the charging status.

4. Operating the Transmitter

4.1 Controls Overview

The Horus X10S Express features a comprehensive set of controls, including gimbals, switches, and rotary knobs, designed for intuitive operation.



Image: Front view of the FrSky Horus X10S Express, showing the industrial LCD color screen, gimbals, switches, and rotary controls.

- **Gimbals:** High-accuracy MC12P hall sensor gimbals provide precise control over your model's movements.
- **Switches (SA-SH):** Configurable switches for various functions such as flight modes, gear, or flaps.
- **Rotary Knobs (S1, S2):** Analog inputs for fine-tuning parameters.
- **Toggles (T1-T6):** Additional two-position or three-position switches.
- **Power Button:** Located centrally for turning the transmitter on/off.

4.2 LCD Color Screen Interface

The 480*272 industrial LCD color screen displays critical flight data, model settings, and system information. Navigation is typically done using the scroll wheel and buttons located around the screen.

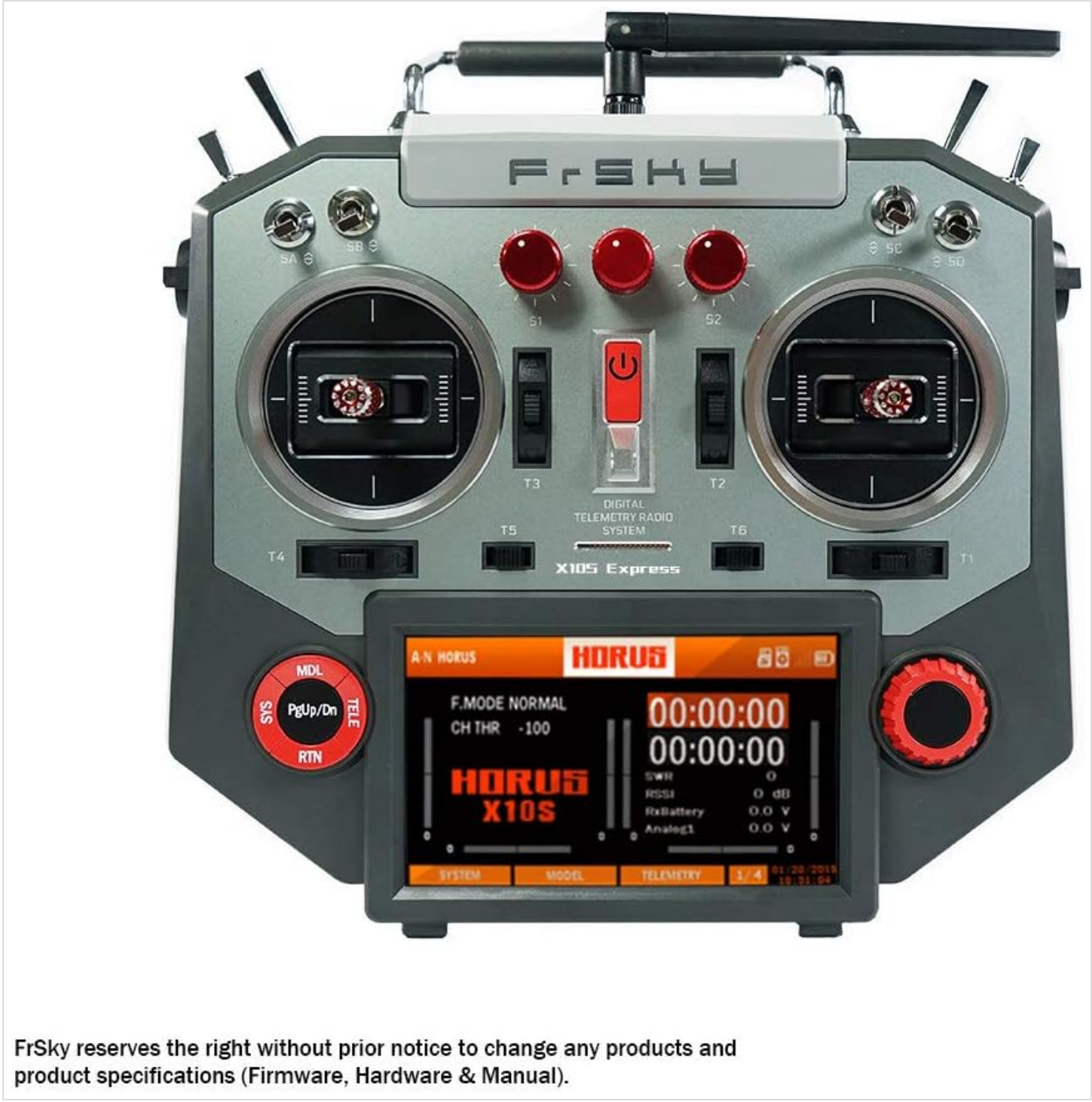


Image: Close-up of the FrSky Horus X10S Express screen, showing the main menu interface with model and telemetry information.

The screen allows access to various menus, including:

- **Model Setup:** Configure new models, assign channels, and set up mixes.
- **Telemetry:** View real-time data from your model, such as battery voltage, RSSI, and GPS coordinates (requires compatible sensors).
- **System Settings:** Adjust global transmitter settings, calibrate gimbals, and update firmware.

5. Maintenance

Proper maintenance ensures the longevity and reliable performance of your FrSky Horus X10S Express transmitter.

- **Cleaning:** Use a soft, dry cloth to clean the transmitter's exterior. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

- **Battery Care:** Always use recommended 18650 Li-ion batteries. Do not overcharge or deep discharge batteries. If the transmitter will not be used for a long time, charge the batteries to storage voltage (around 3.8V per cell).
- **Gimbal Protection:** When transporting, ensure gimbals are protected from impact.

6. Troubleshooting

This section addresses common issues you might encounter with your Horus X10S Express transmitter.

- **Transmitter does not power on:**
  - Check if batteries are correctly installed with proper polarity.
  - Ensure batteries are sufficiently charged.
  - Verify the power button is pressed and held correctly.
- **No signal to receiver:**
  - Confirm the receiver is properly bound to the transmitter.
  - Check the internal and external antennas for damage or loose connections.
  - Ensure the correct model is selected on the transmitter.
  - Check for SWR warnings on the screen, indicating antenna issues.
- **Screen is blank or unresponsive:**
  - Restart the transmitter.
  - Ensure battery voltage is adequate.
  - If the issue persists, contact FrSky support.

7. Specifications

Attribute	Value
Dimension	213*225*112mm (L*W*H)
Weight	950g (without battery)
Operating System	FrOS / OpenTX
Internal RF Module	ISRM-S-X10
Number of Channels	24 channels
Operating Voltage Range	6.5 ~ 8.4V (2S Li-battery)
Operating Temperature	-10℃ - 60 ℃ (14℉ -140℉)
Charging Current	≤1A ±200mA
USB Adaptor Voltage	5.0+0.2V
USB Adaptor Current	>2.0A
Backlit LCD Resolution	480*272
Compatibility	ACCST D16 and ACCESS receivers
Manufacturer Recommended Age	14 years and up

8. Warranty and Support

For detailed warranty information, please refer to the documentation included with your purchase or visit the official FrSky website. FrSky provides technical support and resources for their products.

You can find more information and support resources on theFrSky Store on Amazon or their official website.

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Example: How do I reset this device or fix this error?

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