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FrSky Tandem X20RS

FrSky Tandem X20RS TD-ISRM RS RF Performance Module User Manual

Model: Tandem X20RS | Brand: FrSky

1. Product Overview

The FrSky Tandem X20RS TD-ISRM RS RF Performance Module is a state-of-the-art radio transmitter designed for advanced remote control applications. It features a dual-band 900M/2.4G RF signal link, offering robust and reliable performance. This module supports multiple protocols, including TW and TD, and is capable of operating in dual 2.4G TW RF mode, allowing simultaneous use of TW and ACCESS R9 modes.

Key features include:

- Built-in TD-ISRM RS Dual-Band Internal RF Module (900M/2.4G)
- Support for TD Mode, Dual 2.4G TW Mode, ACCESS 2.4G & ACCESS R9 Modes, and 2.4G ACCST D16 Mode
- Super Low-Latency and Long-Range Control with Telemetry
- 800×480 Resolution Outdoor High Brightness Touchscreen
- MC20R All CNC High-Precision Hall-Sensor Gimbals with 10 Ball-Bearings
- Haptic Vibration Alerts and Voice Speech Outputs (TTS Function)
- Built-in 6-axis Gyroscope Sensor
- High-Speed PARA Wireless Training System
- Data Transmission & Recharge via USB Type-C Interface
- Built-in 8GB Flash Drive Storage



Figure 1.1: Front view of the FrSky Tandem X20RS TD-ISRM RS RF Performance Module, showcasing the touchscreen, gimbals, and control buttons.

2. Setup and Initial Configuration

2.1 Unboxing and Inspection

Carefully remove the transmitter from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the packing list are present.

2.2 Charging the Battery

Before first use, fully charge the internal battery. Connect the provided USB Type-C cable to the transmitter's USB-C port and to a compatible USB power adapter (not included). The charging indicator will show the charging status.

2.3 Powering On/Off

- **To Power On:** Press and hold the power button located on the front panel until the screen illuminates.
- **To Power Off:** Press and hold the power button until the shutdown prompt appears on the screen, then confirm.

2.4 Basic System Navigation

The Tandem X20RS features an 800x480 touchscreen for intuitive navigation. You can also use the scroll wheels and buttons for menu selection and parameter adjustment. Familiarize yourself with the main menu structure and settings.

2.5 Model Creation and Binding

To operate your RC model, you must first create a new model profile on the transmitter and bind it to your receiver. Refer to the specific receiver's manual for its binding procedure.

1. Navigate to the "Model Select" or "Model Setup" menu on the transmitter.
2. Select "Create New Model" and follow the on-screen prompts to configure basic settings (e.g., model type, channel count).
3. Access the "Internal RF" or "External RF" settings within the model setup.
4. Select the desired RF mode (e.g., TW, TD, ACCESS, ACCST D16) that matches your receiver.
5. Initiate the binding process on the transmitter (usually by pressing a "Bind" button on screen).
6. Put your receiver into binding mode (refer to receiver manual). The transmitter and receiver should establish a connection.
7. Verify successful binding by checking the receiver's LED indicator and testing control inputs.



Figure 2.1: Back view of the FrSky Tandem X20RS TD-ISRM RS RF Performance Module, showing the ergonomic grips and external

antenna connectors.

3. Operating the Transmitter

3.1 Gimbal Operation

The MC20R Hall-Sensor Gimbals provide precise control. Move the gimbals smoothly to control your model's movements. The gimbals feature adjustable travel and rotatable panels for personalized comfort.

3.2 Using Switches and Knobs

The transmitter is equipped with various switches, knobs, and slider levers. These can be assigned to control different functions on your model (e.g., landing gear, flaps, flight modes). Refer to your model's setup menu to customize these assignments.

- **Slider Levers:** Two angle-adjustable slider levers.
- **Knobs:** Two knobs for proportional control.
- **Trims:** Four standard trims and two extra trims for fine-tuning control surfaces.
- **Custom Buttons:** Six quick-mode custom buttons (front) and two momentary buttons (rear).

3.3 Telemetry Display

The Tandem X20RS supports real-time telemetry data display on its high-brightness touchscreen. This can include battery voltage, signal strength, altitude, and more, depending on your receiver and sensors. Configure telemetry screens in the system settings.

3.4 Safety Guidelines

- Always perform a range check before flying.
- Ensure your model's battery is fully charged and securely connected.
- Never operate your RC model in crowded areas or near obstacles.
- Be aware of local regulations regarding RC model operation.
- Always power on the transmitter first, then the model. Power off the model first, then the transmitter.

4. Maintenance

4.1 Cleaning

Wipe the transmitter's surface with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used. Avoid using harsh chemicals or abrasive cleaners, which can damage the finish or screen.

4.2 Storage

Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50% to prolong its lifespan.

4.3 Firmware Updates

FrSky regularly releases firmware updates to improve performance, add features, and fix bugs. Visit the official FrSky website for the latest firmware and instructions on how to update your Tandem X20RS via the USB Type-C interface.

4.4 Battery Care

To maximize battery life, avoid fully discharging the battery frequently. Recharge the battery when the low voltage warning is triggered. Use only the recommended charging methods.

5. Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Low battery; Power button not held long enough; Internal fault.	Charge the battery; Hold power button for 3-5 seconds; Contact support if issue persists.
Cannot bind to receiver.	Incorrect RF mode selected; Receiver not in binding mode; Too far/close during binding.	Ensure RF mode matches receiver; Verify receiver binding procedure; Maintain appropriate distance (e.g., 1 meter).
Poor range or signal loss.	Antenna orientation; Environmental interference; Low receiver voltage.	Adjust antenna position; Avoid flying near metal structures or strong RF sources; Check receiver battery.
Telemetry data not displayed.	Telemetry not enabled; Sensor not connected/configured; Receiver not supporting telemetry.	Enable telemetry in model setup; Ensure sensors are properly connected and calibrated; Use a telemetry-capable receiver.

6. Specifications

Feature	Detail
Model Name	Tandem X20RS
Internal RF Module	TD-ISRM RS Dual-Band (900M/2.4G)
Supported Protocols	TW, TD, ACCESS 2.4G, ACCESS R9, ACCST D16
Display	800×480 Resolution Outdoor High Brightness Touchscreen
Gimbals	MC20R All CNC High-Precision Hall-Sensor Gimbals (10 Ball-Bearing)
Storage	Built-in 8GB Flash Drive
Connectivity	USB Type-C for Data Transmission & Recharge
Alerts	Haptic Vibration Alerts, Voice Speech Outputs (TTS)
Sensors	Built-in 6-axis Gyroscope Sensor
Dimensions	8 x 7 x 10 inches (Product Dimensions)
Weight	2 pounds (Item Weight)
Manufacturer	FrSky

7. Warranty and Support

7.1 Warranty Information

FrSky products typically come with a limited warranty covering manufacturing defects. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official FrSky website. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact FrSky customer support. You can find contact information, FAQs, and additional resources on the official FrSky website:

Visit FrSky Official Website

Please have your product model and serial number ready when contacting support.

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