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Xiangtat TX15

RadioMaster TX15 Max V5.0 Remote Control Transmitter User Manual

Model: TX15 | Brand: Xiangtat

INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your RadioMaster TX15 Max V5.0 Remote Control Transmitter. Designed for RC drone applications, this transmitter features advanced technology including ELRS 2.4GHz/900MHz integration, AG02 Hall sensor gimbals, and support for EdgeTX firmware. Please read this manual thoroughly to ensure proper use and to maximize the performance and longevity of your device.

KEY FEATURES

- **Blazing-Fast Performance:** Powered by an STM32 H7 chip for rapid processing.
- **Touchscreen Display:** 3.5-inch, 480 x 320 IPS touchscreen for clear visuals and intuitive navigation.
- **Precision Gimbals:** Premium AG02 Hall sensor gimbals with adjustable travel for enhanced smoothness and control.
- **Built-in ExpressLRS:** Integrated 2.4GHz / 900MHz ExpressLRS for reliable and long-range control.
- **Smart Balance Battery Circuit:** Optimizes battery efficiency and extends battery life.
- **Powerful Cooling System:** Features low-noise, high-output fans and an aluminum heat sink to maintain optimal operating temperature.
- **Customizable RGB Gimbal Light-Ring:** Integrated RGB LED lights around the gimbals, controllable via LUA scripts.
- **Foldable Antenna:** Compact design for easy storage without compromising signal strength.
- **Built-in Gyro:** Enables trigger switches, pan/tilt camera control, or telemetry callouts through radio tilting.
- **Memory:** Integrated 4GB of onboard flash memory and external MicroSD card support (MicroSD card not included).
- **Interchangeable Shoulder Switches:** Allows customization of controls to suit individual flying styles.
- **Firmware Support:** Compatible with EdgeTX (version 3.0.0 or later) and ExpressLRS module firmware.

SETUP GUIDE

1. Unboxing and Initial Inspection

Upon receiving your TX15 Max, carefully unbox all components. Inspect the transmitter for any visible damage. The package contents typically include the TX15 Max Radio Controller, a carrying case, and various accessories such as switches, springs, and a USB-C cable.



Image: Contents of the RadioMaster TX15 Max package, including the transmitter, carrying case, USB-C cable, switches, and other small accessories.

2. Battery Installation

The TX15 Max requires a 7.4V 2-cell Lithium-Polymer battery, two 3.7V 18650 Lithium-Ion cells, or a 21700 5000mAh battery (batteries are not included). Ensure correct polarity when installing. The Smart Balance Battery Circuit helps manage battery efficiency.



Image: Rear view of the RadioMaster TX15 Max transmitter, highlighting the battery compartment cover at the bottom.

3. MicroSD Card Installation

For expanded memory and firmware updates, install a 32GB/FAT32 formatted MicroSD card (not included). Note that inserting a MicroSD card will disable the onboard 4GB flash memory.

4. Antenna Attachment

Attach the foldable antenna securely to the designated port. Ensure it is fully extended during operation for optimal signal strength.

5. Initial Power On and Firmware

Power on the transmitter. The TX15 Max runs on EdgeTX firmware (requires version 3.0.0 or later) for the transmitter and ExpressLRS for the RF module. It is recommended to check for the latest firmware updates via USB-C, SD card, or the EdgeTX Buddy/Companion PC software.

OPERATING INSTRUCTIONS

1. Basic Controls Overview

The TX15 Max features two main gimbals for primary control inputs (throttle, aileron, elevator, rudder). Various switches (SA, SB, SC, SD, T1-T4) and potentiometers (S1, S2) are available for auxiliary functions. The 3.5-inch IPS touchscreen provides access to menus and settings.



Image: Front view of the RadioMaster TX15 Max remote control transmitter, showing the gimbals, switches, potentiometers, and touchscreen display.

2. Navigation and Settings

Utilize the touchscreen and navigation buttons (SYS, RTN, PAGE>, PAGE<, TELE) to access and adjust settings within the EdgeTX firmware. Refer to the EdgeTX documentation for detailed menu navigation and model setup procedures.

3. Binding to Receiver

The internal RF module supports ExpressLRS protocols. Follow the specific binding procedure for your ExpressLRS receiver to establish a connection. The transmitter supports a maximum of 16 channels, depending on the receiver.

4. Using the Built-in Gyro

The integrated ICM-42607-C gyro allows for advanced control options. This feature can be configured within EdgeTX to trigger switches, control pan/tilt cameras, or activate telemetry callouts by tilting the radio.

5. Customizing Gimbals and Switches

The AG02 gimbals offer adjustable travel on both vertical and horizontal axes. Interchangeable shoulder switches allow for further customization of your control layout. The RGB gimbal light-ring can be customized via LUA-controlled lighting settings.



Image: Close-up view of one of the AG02 Hall sensor gimbals on the RadioMaster TX15 Max, showing its textured stick and surrounding controls.

MAINTENANCE

1. Battery Care

To ensure optimal battery life, always use the Smart Balance Battery Circuit for charging and discharging. Avoid overcharging or fully depleting the battery. Store the transmitter with the battery at a partial charge if not used for extended periods.

2. Cleaning and Storage

Clean the transmitter regularly with a soft, dry cloth. Avoid using harsh chemicals or solvents. Store the transmitter in a cool, dry place, preferably in its carrying case, away from direct sunlight and extreme temperatures. The powerful cooling system helps manage internal temperatures during operation.



Image: The RadioMaster TX15 Max transmitter positioned next to its protective grey carrying case, illustrating proper storage.

3. Firmware Updates

Regularly check for firmware updates for both the EdgeTX operating system and the ExpressLRS module. Updates can provide new features, performance improvements, and bug fixes. Use the official EdgeTX tools and follow their instructions for safe updating.

TROUBLESHOOTING

- **Transmitter Not Powering On:**
Ensure the battery is correctly installed and fully charged. Check battery connections for any looseness.
- **No Signal to Receiver:**
Verify that the transmitter and receiver are properly bound. Check the RF module settings in EdgeTX. Ensure the antenna is securely attached and extended.
- **Gimbal or Switch Malfunction:**
Inspect the physical condition of the gimbals and switches. Calibrate gimbals within the EdgeTX settings if inputs are erratic. Ensure interchangeable switches are correctly seated.
- **Display Issues:**
If the touchscreen is unresponsive or displays incorrectly, try restarting the transmitter. Ensure firmware is up to date.
- **Firmware Update Failure:**
Ensure a stable USB connection and a properly formatted MicroSD card. Follow official EdgeTX update procedures precisely. Do not disconnect power during an update.

SPECIFICATIONS

Item	TX15 Max Radio Controller
Size	178*168*81mm
Weight	672g (without battery)
Color Options	Red/ Black/ Gold
Frequency	2.400GHz OR Sub-G 900MHz
Internal RF	ELRS 2.4GHz / Sub-G 900MHz
Supported Protocols	Express-LRS
Cooling Fan	Yes
Transmitter Module	Built-in ELRS
Built-in Flash Size	4GB
Built-in Microphone	Yes (Future expansion)
Built-in Gyro	Yes (ICM-42607-C)
MicroSD card	32GB/FAT32 (Not included, disables onboard flash)
Antenna Gain	2dB (transmit power adjustable)
Current	875mA at max power output
Voltage Range	6.6 - 8.4V DC
Radio Firmware	EdgeTX (Transmitter) (requires version 3.0.0 or later)
Module Firmware	ExpressLRS
Channels	Max 16 channels (Receiver dependent)
Display	3.5-inch IPS touchscreen (480 x 320 resolution)
Battery	7.4V 2-cell Lithium-Polymer / Two 3.7V 18650 Lithium-Ion cells / 21700 5000mAh Battery (batteries not included)
Connectivity	USB-C
Gimbals	AG02 CNC Hall sensor gimbals
Gimbal Sticks	M4
Upgrade Method	USB-C (UF2)
Module Bay	JR-compatible module bay for additional modules

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official documentation provided with your purchase or contact the manufacturer, Xiangtat, directly. Keep your proof of purchase for warranty claims.

Manufacturer: Xiangtat

