MALTA 16IZSM-TX-FS

FUTABA 16IZ Super Transmitter User Manual

Model: 16IZSM-TX-FS
Brand: MALTA

Introduction

This manual provides essential information for the safe and effective operation of your FUTABA 16IZ Super Transmitter. Designed for drones (multicopters) and robots, this transmitter features a full spring specification for precise control and integrated telemetry functions. Please read this manual thoroughly before use to ensure proper setup and operation.

Product Contents

Upon opening the package, verify that all the following items are included:

- Transmitter Unit (Full Spring Specification, Japan Technical Compliance Mark)
- Transmitter LIPO Battery (7.4V-2000mAh)
- USB Charging Cable
- Instruction Manual (this document)
- Warranty Card

Figure 1: Package contents of the FUTABA 16IZ Super Transmitter. This image displays the transmitter unit, a LIPO battery, a USB charging cable, and the included instruction manual and warranty card, all neatly arranged within the packaging.

Features

- **Full Spring Stick Mechanism:** Both control sticks are spring-loaded to return to the center position, ideal for drone (multicopter) and robot applications. Note that the throttle stick does not hold its position when released, unlike models designed for helicopters or airplanes.
- **Telemetry Functionality:** Equipped with telemetry capabilities for real-time data feedback when used with compatible receivers.
- **Multi-Mode Support:** Initial setting is Mode 1 (right throttle). Software settings allow for easy conversion to Mode 2 (left throttle), Mode 3, and Mode 4 to suit user preference.
- **Wide Receiver Compatibility:** Supports various Futaba receiver protocols including T-FHSS (with telemetry), S-FHSS, FASSTest (with telemetry), and FASST (7CH/12CH/MULTI).

Figure 2: The FUTABA 16IZ Super Transmitter. This image highlights the transmitter's ergonomic design, dual spring-loaded sticks, and the integrated color display, which shows various settings and telemetry data.

Setup

Initial Power-On and Battery Installation

1. Carefully open the battery compartment cover on the back of the transmitter.
2. Connect the provided 7.4V-2000mAh LIPO battery to the designated connector inside the compartment.
3. Ensure the battery is securely placed and close the compartment cover.
4. Press and hold the power button to turn on the transmitter. The screen will illuminate, indicating successful power-on.

Changing Stick Mode (Mode 1 / Mode 2 / Mode 3 / Mode 4)

The transmitter is factory-set to Mode 1 (right throttle). To change the stick mode, follow these software configuration steps:

1. Access the system menu on the transmitter's display. Refer to the on-screen interface for navigation.
2. Navigate to the "System Settings" or "Mode Selection" option.
3. Select your desired stick mode (Mode 2, Mode 3, or Mode 4).

4. Confirm the selection. The transmitter will automatically adjust its stick assignments. No physical modification is required for mode changes.

Operating Instructions

Binding with a Receiver

To establish communication between the transmitter and your receiver, a binding process is required. The specific steps may vary slightly depending on the receiver type (T-FHSS, S-FHSS, FASSTest, FASST). Always refer to your receiver's instruction manual for detailed binding procedures.
Generally, the process involves:

1. Powering on the receiver in binding mode.
2. Activating the binding function on the transmitter via the system menu.
3. Waiting for the binding confirmation (e.g., LED indicator on the receiver).

Control Stick Functionality

The FUTABA 16IZ Super features full spring-loaded sticks. This means both sticks will return to the center position when released. This design is optimized for controlling drones and robots where precise, centered control inputs are often required for stability and maneuverability.

- **Left Stick (Mode 2):** Typically controls Throttle (vertical movement) and Rudder (yaw/rotation).
- **Right Stick (Mode 2):** Typically controls Aileron (roll/side-to-side movement) and Elevator (pitch/forward-backward movement).
- *Note:* Stick assignments will change based on the selected mode (Mode 1, 3, or 4).

Telemetry Function

When paired with a compatible T-FHSS or FASSTest receiver, the transmitter can display real-time telemetry data from your model. This may include battery voltage, temperature, RPM, and other sensor data. Consult your receiver and sensor manuals for specific telemetry setup and display options on the transmitter screen.

Maintenance

Battery Charging

To charge the transmitter's LIPO battery:

1. Connect the provided USB charging cable to the transmitter's USB port.
2. Connect the other end of the USB cable to a suitable USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator on the transmitter will show the charging status. Refer to the transmitter's display for battery level and charging progress.
4. Once fully charged, disconnect the USB cable.

Important: Only use the provided USB charging cable and a compatible USB power source. Do not use damaged cables or chargers. Do not overcharge the battery.

Cleaning and Storage

- Clean the transmitter's exterior with a soft, dry cloth. Avoid using solvents or abrasive cleaners.
- Store the transmitter in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.
- If storing for an extended period, ensure the battery is charged to approximately 50% to prolong its lifespan.

Troubleshooting

This section addresses common issues you might encounter. If you experience problems not listed here, or if the suggested solutions do not resolve the issue, please contact customer support.

Problem	Possible Cause	Solution
Transmitter does not power on.	Battery is not charged or not connected properly.	Ensure the LIPO battery is fully charged and correctly installed in its compartment.
No response from model.	Transmitter and receiver are not bound, or receiver is not powered.	Verify the receiver is powered on. Perform the binding procedure as described in the receiver's manual. Check receiver and transmitter battery levels.
Telemetry data not displayed.	Receiver is not telemetry-compatible, or sensors are not connected/configured.	Ensure you are using a T-FHSS or FASSTest receiver. Verify all telemetry sensors are correctly connected and configured according to their respective manuals.

Specifications

Feature	Detail
Brand	MALTA
Model Number	16IZSM-TX-FS (Manufacturer Model: 4573176136386)
Product Weight	1.34 Kilograms
Package Dimensions	26 x 25.9 x 12.2 cm
Battery Type	1 Lithium Polymer battery (included)
Battery Capacity	7.4V-2000mAh
Control Type	Remote Control
Wireless Communication	Wireless
Special Features	Telemetry function, Multi-mode support
Color	RM
First Available Date	November 27, 2020

Warranty and Support

This product comes with a warranty card included in the package. Please retain your proof of purchase and the warranty card for any warranty claims. For technical support, service, or further inquiries, please refer to the contact information provided on the warranty card or the manufacturer's official website.

Age Restriction: This product is intended for users aged 16 years and older.