ARRIS T20S V2

ARRIS Jumper T20S V2 Radio Controller Instruction Manual

Model: T20S V2 (LA0316)

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ARRIS Jumper T20S V2 Radio Controller. Please read this manual thoroughly before using the device to ensure proper function and safety.

KEY FEATURES

- **RDC90 Sensor Gimbals:** Experience precise and sensitive control for your RC devices.
- **Vivid OLED Screen Display:** Stay informed with crucial flight data, telemetry, and settings on a high-resolution screen.
- **ELRS and EdgeTX Compatibility:** Benefit from reliable, extended-range communication and advanced firmware capabilities.
- **Multi-Protocol Support:** Connect effortlessly to a wide array of RC models and brands.
- **Customization for Personalized Flying:** Tailor your control setup with configurable switches, buttons, and functions via EdgeTX.

PRODUCT OVERVIEW

Familiarize yourself with the components and design of your Jumper T20S V2 Radio Controller.

Image: Front view of the Jumper T20S V2 Radio Controller, showing the gimbals, OLED screen, power button, and various control switches and buttons.

Image: Angled front view of the Jumper T20S V2 Radio Controller, highlighting the gimbals and control layout.

Image: Side view of the Jumper T20S V2 Radio Controller, showing the foldable antenna in an extended position.

Image: Rear view of the Jumper T20S V2 Radio Controller, displaying the external cooling fan and battery compartment area.

Image: Diagram illustrating the airflow and cooling fan system integrated into the Jumper T20S V2 for high-power ELRS operation.

Product Specifications

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MCU: STM32F407ZGT6

External module interface: Reserved (1.25mm-5P)

Screen: 1.3" OLED (128*64)

External module power supply: XT30 (2S2A output)

SD card: Chip-based internal (officially recommended by EdgeTX)

Gimbal size: Standard full size gimbal

Voltage: 6-8.4V

Gimbal sensors: RDC90 / Hall optional

Battery: 2pcs 21700

Power Output: Maximum 1W

Weight: 443g(battery not included)

Image: Close-up view of the omnidirectional foldable antenna, designed to provide stable signal support in all directions.

SETUP

1. Battery Installation

1. Open the battery compartment cover located on the rear of the controller.
2. Insert two 21700 batteries, ensuring correct polarity.
3. Close the battery compartment cover securely.

2. Initial Power On

1. Press and hold the power button (located centrally on the front panel) until the OLED screen illuminates.
2. The controller will boot into the EdgeTX operating system.

3. Gimbal Calibration (Recommended)

For optimal performance, it is recommended to calibrate the gimbals after initial setup or if you experience inconsistent control. Refer to the EdgeTX documentation for detailed calibration procedures.

OPERATING INSTRUCTIONS

1. Navigation and Menu System

The Jumper T20S V2 utilizes the EdgeTX firmware. Navigation is primarily done using the scroll wheel and menu buttons. The OLED screen displays all relevant information.

- **Scroll Wheel:** Used to navigate through menus and adjust values.
- **Menu Buttons:** Access various settings and functions.
- **System Menu:** Configure global settings, model setup, and radio calibration.

2. Model Setup and Binding

To control an RC model, you must first create a model profile and bind the controller to the receiver.

1. Navigate to the Model Select screen in EdgeTX.
2. Create a new model or select an existing one.
3. Configure the internal or external RF module settings (e.g., ELRS, Multi-Protocol) to match your receiver.
4. Initiate the binding process on both the controller and the receiver according to their respective manuals.
5. Verify successful binding by checking receiver telemetry or control response.

3. Customizing Controls

The Jumper T20S V2 offers extensive customization. You can assign functions to switches, buttons, and sliders through the EdgeTX firmware.

- Access the Mixer and Special Functions menus within EdgeTX to configure control assignments.
- Adjust gimbal tension and stick settings by disassembling the radio, if desired (refer to advanced user guides for detailed instructions).

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the controller. Avoid abrasive cleaners or solvents.
- **Storage:** Store the controller in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Firmware Updates:** Regularly check for and install the latest EdgeTX firmware updates to ensure optimal performance and access new features. Refer to the official EdgeTX website for instructions.
- **Gimbal Care:** Keep gimbals free from dust and debris. Avoid applying excessive force.

TROUBLESHOOTING

Controller does not power on:
Ensure batteries are correctly installed and fully charged. Check battery polarity.

No response from RC model:
Verify that the controller is properly bound to the receiver. Check model settings in EdgeTX for correct RF protocol and channel assignments. Ensure the RC model's battery is charged and connected.

OLED screen is blank or flickering:
Restart the controller. If the issue persists, ensure firmware is up to date. Contact support if the problem continues.

Gimbal movement is erratic:
Perform a gimbal calibration through the EdgeTX system menu. Check for any physical obstructions or damage to the gimbals.

SPECIFICATIONS

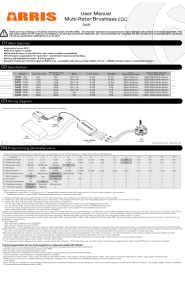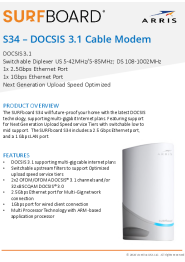| Feature	Detail
MCU	STM32F407ZGT6

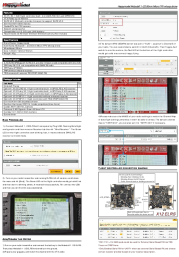|	
External Module Interface	Reserved (1.25mm-5P)
Screen	1.3" OLED (128*64)
External Module Power Supply	XT30 (2S2A output)
SD Card	Chip-based internal (officially recommended by EdgeTX)
Gimbal Type	Standard full size gimbal
Voltage	6-8.4V
Gimbal Sensors	RDC90 / Hall optional
Battery	2pcs 21700 (not included)
Power Output	Maximum 1W
Weight	449g (battery not included)
Item Model Number	LA0316
Package Dimensions	8.7 x 7.91 x 3.78 inches
Item Weight (with batteries)	Approximately 10.6 ounces (300g)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official ARRIS website. Keep your proof of purchase for warranty claims.
For further assistance with EdgeTX firmware, visit the official EdgeTX project website and community forums for comprehensive resources and community support.

Related Documents - T20S V2

[ARRIS Swift Multi-Rotor Brushless ESC User Manual](#)
Comprehensive user manual for the ARRIS Swift series of Multi-Rotor Brushless Electronic Speed Controllers (ESCs), detailing features, specifications, wiring diagrams, programming parameters, and operational procedures for RC models.

[ARRIS SURFboard S34 DOCSIS 3.1 Cable Modem Specifications](#)
Detailed specifications for the ARRIS SURFboard S34 DOCSIS 3.1 Cable Modem, highlighting its features, performance, and connectivity options for multi-gigabit internet plans.

	[Jumper T20 V2 Radio System Quick Start Manual](#) A quick start guide for the Jumper T20 V2 radio system, covering introduction, first boot procedures, model setup, binding, frequency tuning, outputs, channel monitoring, gimbal calibration, battery charging, and firmware updates.
	[EdgeTX v2.9 Benutzerhandbuch: Anleitung für Fernsteuerungen mit monochromem Bildschirm](#) Umfassendes Benutzerhandbuch für EdgeTX v2.9, das die Bedienung von Fernsteuerungen mit monochromen Bildschirmen detailliert beschreibt. Enthält eine Liste kompatibler Modelle wie FrSky, Jumper und RadioMaster.
	[Happymodel Mobula8 1-2S 85mm Micro FPV Drone Manual & Setup Guide](#) Comprehensive guide for the Happymodel Mobula8 1-2S 85mm Micro FPV whoop drone, covering features, specifications, setup, binding, configuration, ESC settings, VTX channels, and firmware updates. Includes detailed instructions for optimal performance.
	[ILIFE T20s Self-Empty Robot Vacuum Cleaner User Manual](#) Comprehensive user manual for the ILIFE T20s Self-Empty Robot Vacuum Cleaner, detailing setup, operation, maintenance, and troubleshooting for optimal home cleaning.