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› Acouto FPV Video Transmitter (Model Acoutogfu52ex38i) User Manual

Acouto Acoutogfu52ex38i

Acouto FPV Video Transmitter (Model Acoutogfu52ex38i) User Manual

Model: Acoutogfu52ex38i | Brand: Acouto

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Acouto FPV Video Transmitter, model Acoutogfu52ex38i. This device is designed for First Person View (FPV) drone quadcopters, enabling real-time video transmission for an immersive flying experience. Please read this manual thoroughly before installation and operation to ensure proper functionality and to prevent damage.

2. SAFETY INFORMATION

- Always ensure correct polarity when connecting power to avoid damage to the transmitter and other components.
- Operate the video transmitter within its specified voltage range (7-28V input).
- Avoid touching the transmitter during operation, as it may become hot. Allow it to cool before handling.
- Ensure proper ventilation around the transmitter to prevent overheating.
- Do not operate the transmitter without an antenna connected, as this can cause permanent damage.
- Comply with all local regulations regarding FPV drone operation and radio frequency usage.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x FPV Video Transmitter
- 2 x Connecting Cables
- 1 x Instruction Manual (this document)

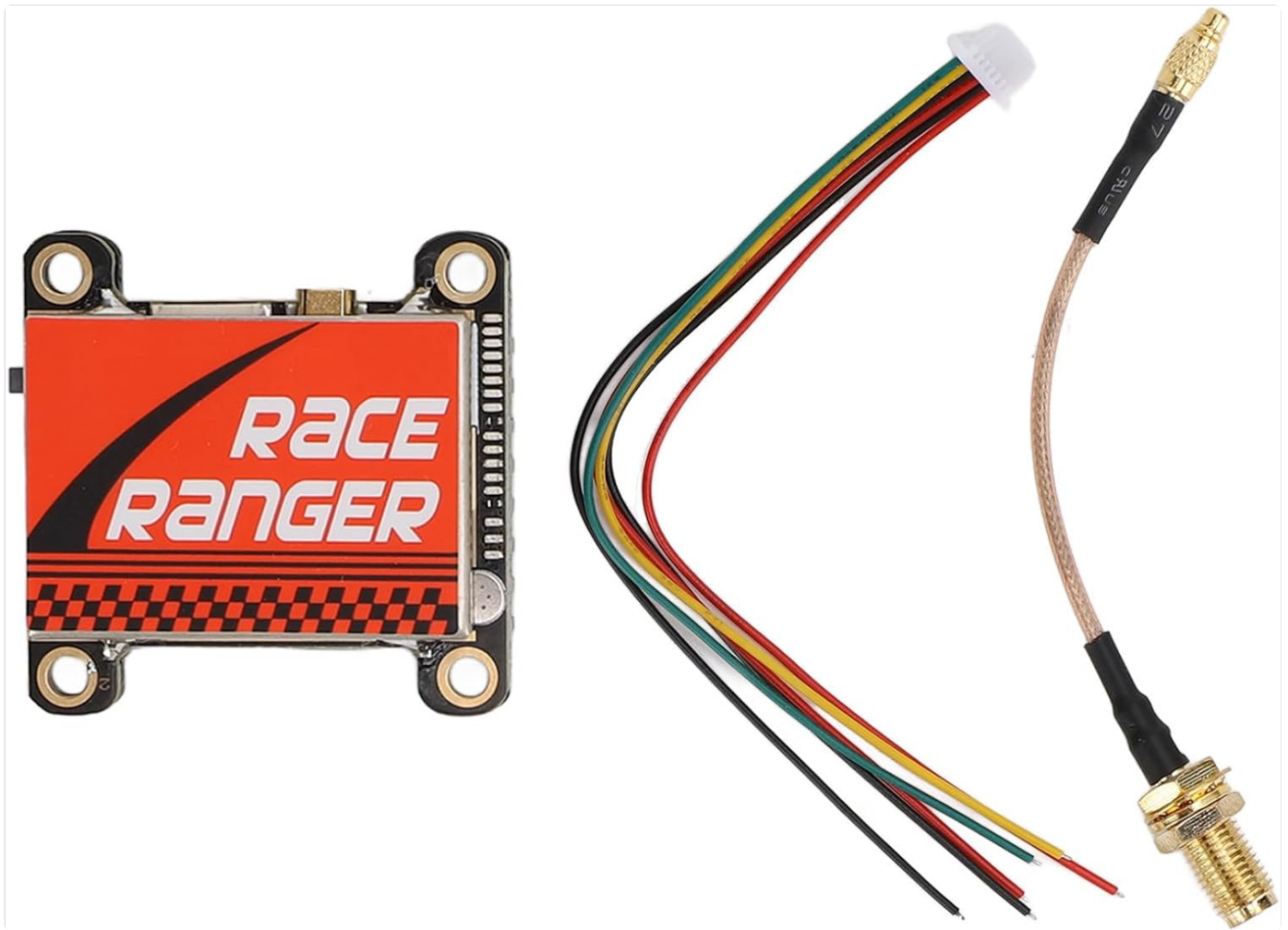


Image: The Acouto FPV Video Transmitter shown alongside its two connecting cables, illustrating the complete package contents.

4. PRODUCT OVERVIEW

The Acouto FPV Video Transmitter is a high-powered VTX designed for robust and clear video transmission in FPV drone applications. It features switchable power output and a compact design for easy integration.



Image: Top-down view of the Acouto FPV Video Transmitter, highlighting its compact form factor and the "Race Ranger" branding.

Key Features:

- **High Power Output:** Up to 1600mW for extended range and clear signal.
- **Adjustable VTX:** Customizable power settings to suit various flying conditions and regulations.
- **Stable Signal:** Designed for clear and smooth live footage without interference.
- **Wide Voltage Input:** Supports 7-28V input, with a 5V output for camera power.
- **Fast Frequency Lock:** Activates quickly without interfering with other drones.

5. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Item Type	FPV Video Transmitter
Brand	Acouto
Model Name	Acoutogfu52ex38i
Material	Metal, PCB
Input Voltage	7-28V
Output Voltage	5V
Power Levels	Up to 1600mW
Item Weight	1.76 ounces (approximately 50g)
Package Dimensions	3.15 x 2.36 x 1.18 inches

6. SETUP AND INSTALLATION

Follow these steps to properly install your FPV Video Transmitter:

- 1. Connect Antenna:** Before powering on the VTX, securely attach a compatible 5.8GHz antenna to the SMA connector. Operating the VTX without an antenna can cause permanent damage.
- 2. Power Connection:** Connect the provided power cable to the VTX. Ensure correct polarity: typically, red for positive (+) and black for negative (-). Connect the other end to a power source within the 7-28V range on your FPV drone.
- 3. Video and Audio Connection (if applicable):** Connect the video output from your FPV camera to the video input on the VTX using the appropriate cable. If your VTX supports audio, connect the audio output from your camera to the VTX audio input. The VTX also provides a 5V output, which can be used to power your FPV camera.
- 4. Mounting:** Securely mount the VTX to your drone frame using appropriate hardware. Ensure it is positioned to minimize interference with other components and has adequate airflow for cooling.
- 5. Initial Power-Up:** After all connections are secure, power on your FPV drone. The VTX will initiate its power self-check function.



Image: A detailed view of the Acouto FPV Video Transmitter, highlighting the connection pads for power, video, and ground, crucial for proper setup.

7. OPERATION

7.1. Power Self-Check

Upon powering on, the VTX performs a built-in power self-check. This function quickly verifies if the image transmission is normal. Observe your FPV goggles or monitor for a stable video feed.

7.2. Adjusting VTX Settings (Channels and Power)

The Acouto VTX supports adjustable power and channel settings. The specific method for adjusting these settings (e.g., button presses, OSD control, or SmartAudio/TrampHV protocol) depends on your flight controller and FPV system. Refer to your flight controller's manual for detailed instructions on how to configure VTX settings.

- **Channel Selection:** Choose a clear channel to avoid interference with other FPV pilots.
- **Power Output:** Select the appropriate power level (e.g., 25mW, 200mW, 600mW, 1600mW) based on your flying environment and local regulations. Lower power is suitable for close-range flying, while higher power extends range.

7.3. Fast Frequency Lock

The VTX features fast frequency lock, which means it activates quickly without interfering with other drones already in the air. This helps maintain a clean FPV environment.

8. MAINTENANCE

- **Cleaning:** Keep the VTX free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- **Inspections:** Regularly check all connections for looseness or damage. Inspect cables for fraying.
- **Antenna Care:** Ensure the antenna is always securely attached and not bent or damaged. A damaged antenna can significantly reduce performance and harm the VTX.
- **Storage:** Store the VTX in a dry, cool environment when not in use.

9. TROUBLESHOOTING

- **No Video Signal:**
 - Check all power and video connections.
 - Ensure the antenna is securely connected to the VTX.
 - Verify that your FPV goggles/monitor are on the correct channel and band.
 - Confirm the VTX is receiving power within the specified voltage range.
- **Poor Video Quality (Static, Lines, Flickering):**
 - Check for interference from other electronic components on the drone.
 - Ensure the VTX antenna is not obstructed and is positioned optimally.
 - Try a different channel or power level.
 - Inspect the antenna for damage.
 - Ensure the power supply to the VTX is clean and stable (consider adding a capacitor if experiencing noise).
- **VTX Overheating:**
 - Ensure adequate airflow around the VTX.
 - Avoid operating at maximum power for extended periods in enclosed spaces.
 - Never operate without an antenna.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Acouto customer service through their official channels. Keep your proof of purchase for warranty claims.

For further assistance, you may visit the [Acouto Store on Amazon](#).

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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