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Robocraze TIFCM0031

Robocraze Mini AIO FPV Camera 5.8G 40CH Video Transmitter User Manual

Model: TIFCM0031

Introduction

This manual provides instructions for the Robocraze Mini AIO FPV Camera, a compact and lightweight solution for FPV drones and RC vehicles. It features an integrated 5.8G 40-channel video transmitter and an 800TVL CMOS image sensor for clear, real-time video transmission. The 2.1mm wide-angle lens offers an immersive field of view, making it suitable for various FPV applications.

Key features include:

- 25mW 800TVL High Definition FPV Camera
- Lightweight Design
- Clear Imagery
- 2.1mm Wide Angle Lens
- 5.8G 40 Channel Video Transmitter
- Universal Drone Compatibility

What's in the Box

Verify that all components are present upon unpacking:

- 1x Robocraze Mini AIO FPV Camera 5.8G 40CH 25mW 800TVL Video Transmitter



Image: The Robocraze Mini AIO FPV Camera, showing its compact circuit board, integrated antenna, and power connection wires.

Setup Instructions

1. **Power Connection:** Connect the camera's red wire to your drone's positive power supply (typically 3.7V-5V, check your flight controller's specifications) and the black wire to ground. Ensure correct polarity to prevent damage.
2. **Mounting:** Securely mount the camera on your drone or RC vehicle using appropriate mounting hardware (not included). Ensure the lens has a clear, unobstructed view. The lightweight design allows for flexible placement.
3. **Antenna Placement:** Position the integrated antenna away from carbon fiber frames or other conductive materials to optimize signal transmission.
4. **Receiver Pairing:** Power on your FPV goggles or receiver. The camera will automatically begin transmitting on its default channel. Refer to the "Operating Instructions" section to change channels if necessary.



Image: A side view of the Robocraze Mini AIO FPV Camera, highlighting its compact form factor and integrated components.



Image: The Robocraze Mini AIO FPV Camera integrated into a drone frame, demonstrating its compact size and suitability for FPV applications.

Operating Instructions

The Robocraze Mini AIO FPV Camera features a single button for channel and band selection.

1. **Power On:** Connect the camera to a power source. The camera will power on and begin transmitting video.
2. **Channel Selection:** Briefly press the button on the camera module to cycle through the available channels (CH1-CH8) within the current band.
3. **Band Selection:** Press and hold the button for approximately 3 seconds to switch to the next frequency band. The camera will indicate the new band (e.g., via LED flashes, common for AIO VTXs). Repeat to cycle through all 5 bands (40 channels total).
4. **Verify Signal:** Ensure your FPV receiver/goggles are set to the corresponding band and channel for clear video reception.

Important Safety Notes:

- Always ensure the antenna is connected before powering on the video transmitter to prevent damage to the VTX module.
- Operate within legal frequency limits and power output regulations in your region.



Image: A close-up front view of the Robocraze Mini AIO FPV Camera, showing the 2.1mm wide-angle lens.



Image: An FPV pilot operating a drone equipped with the Robocraze Mini AIO FPV Camera, demonstrating real-time video transmission for immersive flight.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your FPV camera.

- **Cleaning:** Gently clean the camera lens with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Storage:** Store the camera in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Physical Inspection:** Regularly inspect the antenna, wires, and connectors for any signs of damage or wear. Replace damaged components immediately.
- **Antenna Care:** Avoid bending or stressing the antenna excessively, as this can degrade signal quality.

Troubleshooting

Problem	Possible Cause	Solution
No video signal	Incorrect power connection; Antenna disconnected; Wrong channel/band selected on receiver; Damaged camera/VTX.	Check power wiring polarity; Ensure antenna is securely connected; Verify receiver is on the correct band and channel; Inspect for physical damage.
Poor video quality (static, lines)	Interference; Weak signal; Damaged antenna; Power fluctuations.	Move away from sources of interference; Ensure antenna is undamaged and properly positioned; Check power supply stability; Try a different channel/band.

Problem	Possible Cause	Solution
Camera not powering on	No power supply; Incorrect voltage; Faulty wiring.	Confirm power source is active; Verify voltage is within specified range; Check all wiring connections.

Specifications

Feature	Detail
Brand	Robocraze
Model Number	TIFCM0031
Connectivity Technology	5.8GHz
Optical Sensor Technology	CMOS
Video Transmitter Power	25mW
TV Lines (Resolution)	800TVL
Channels	40CH
Lens	2.1mm Wide Angle
Item Weight	22 Grams
Country of Origin	China



Image: The Robocraze Mini AIO FPV Camera, illustrating its compact size and key features like the 2.1mm lens and integrated antenna.

Warranty and Support

For warranty information, technical support, or service inquiries, please contact Robocraze directly.

Manufacturer Contact Information: Robocraze, Ground Floor, 912/10 Survey no. 104 4th G street, Chelekare, Kalyan Nagar, Bengaluru - 560043, India. Phone: 8123057137.

You can also visit the official Robocraze store online for additional resources and product information: Robocraze Store.

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