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AKK A11T

AKK A11T 5.8G Micro AIO Camera User Manual

Model: A11T

1. Introduction

The AKK A11T is a compact, all-in-one (AIO) FPV camera, video transmitter (VTX), and dipole antenna system designed for micro drones and RC hobby applications. It features switchable power output (25mW/200mW) and supports Smart Audio for convenient OSD configuration.

2. Features

- Integrated FPV camera, video transmitter, and dipole antenna.
- Support for Smart Audio for OSD configuration.
- One-button frequency and power setup.
- Super tiny dimensions: 14mm x 12mm.
- Switchable power output: 25mW and 200mW.

3. Package Contents

Verify that all items are present in your package:

- AKK A11T Micro AIO Camera Unit
- Power Cable
- Signal Cable
- Instruction Manual



Image: Contents of the AKK A11T package, including the camera unit, cables, and manual.

4. Product Overview and Dimensions

The AKK A11T is designed for minimal footprint and weight, making it ideal for micro and small drone builds. Below are detailed views and dimensions of the unit.

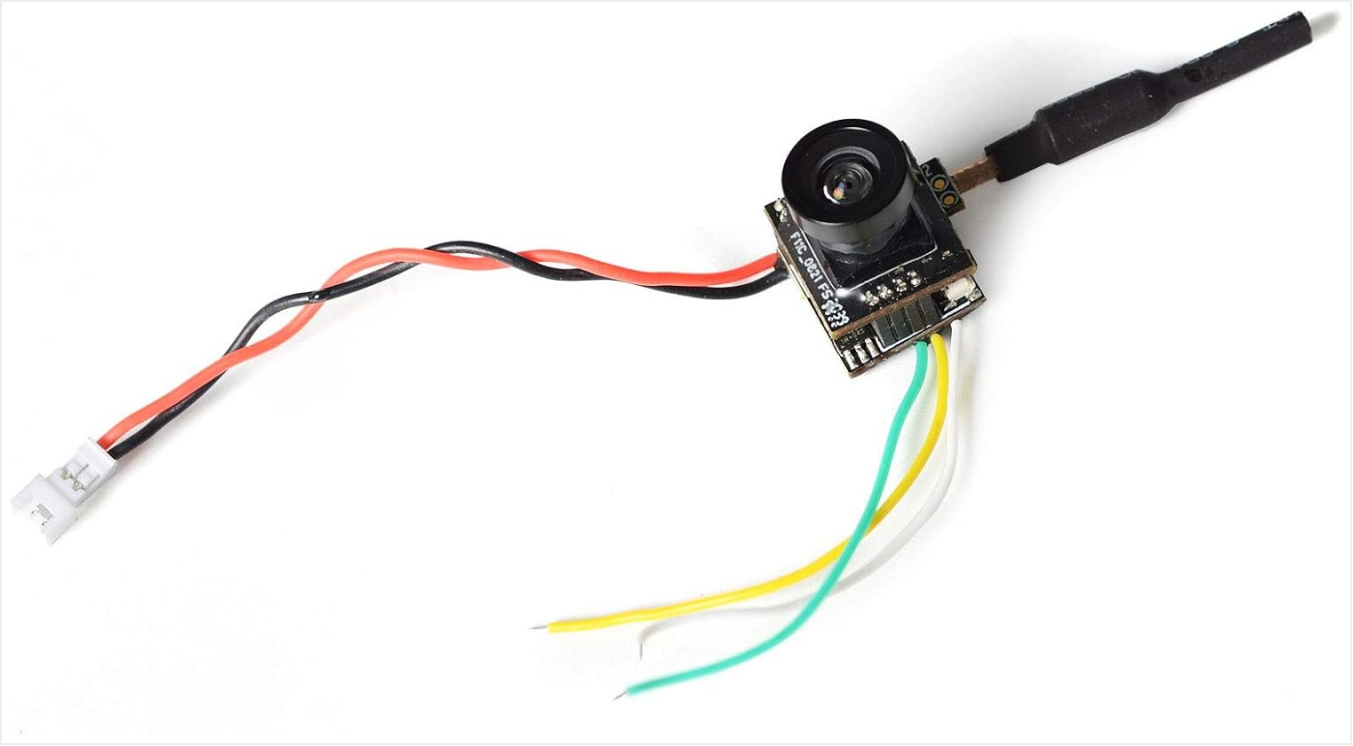


Image: Front view of the AKK A11T camera, showing the lens and antenna connection.



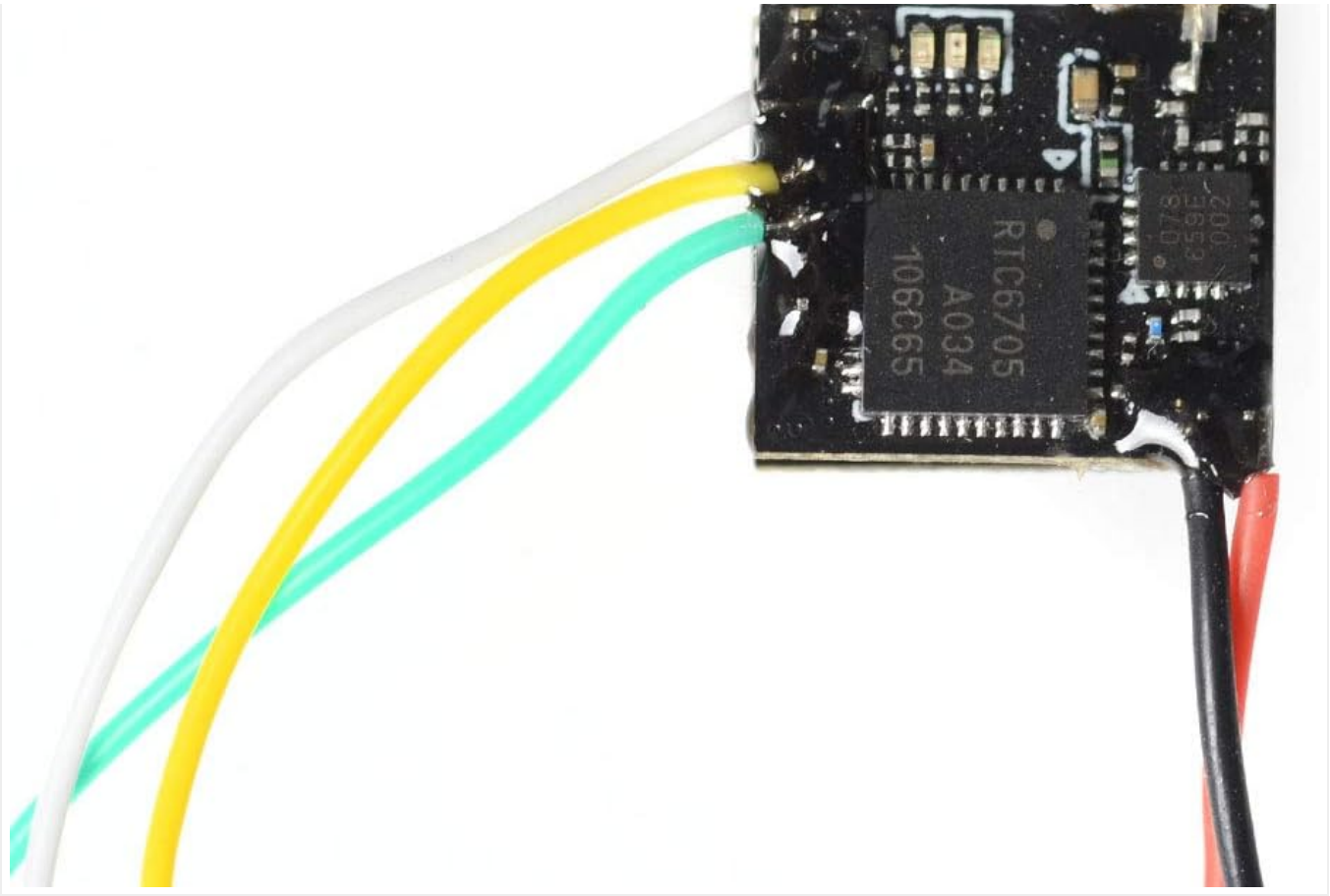


Image: Side view of the AKK A11T, highlighting its compact profile.

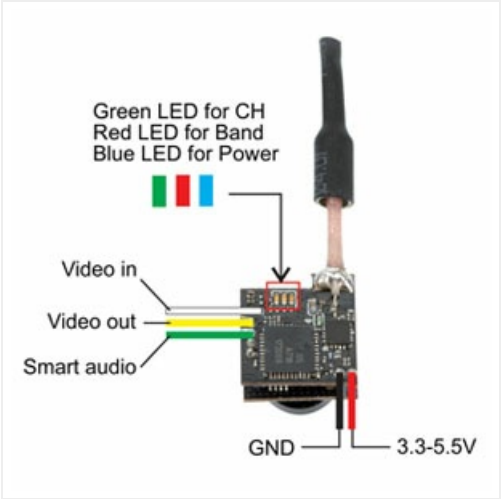


Image: Diagram illustrating the tiny dimensions of the AKK A11T, approximately 14mm x 12mm.

5. Setup and Installation

Proper wiring is crucial for the correct operation of the AKK A11T. Refer to the diagram below for connection details.

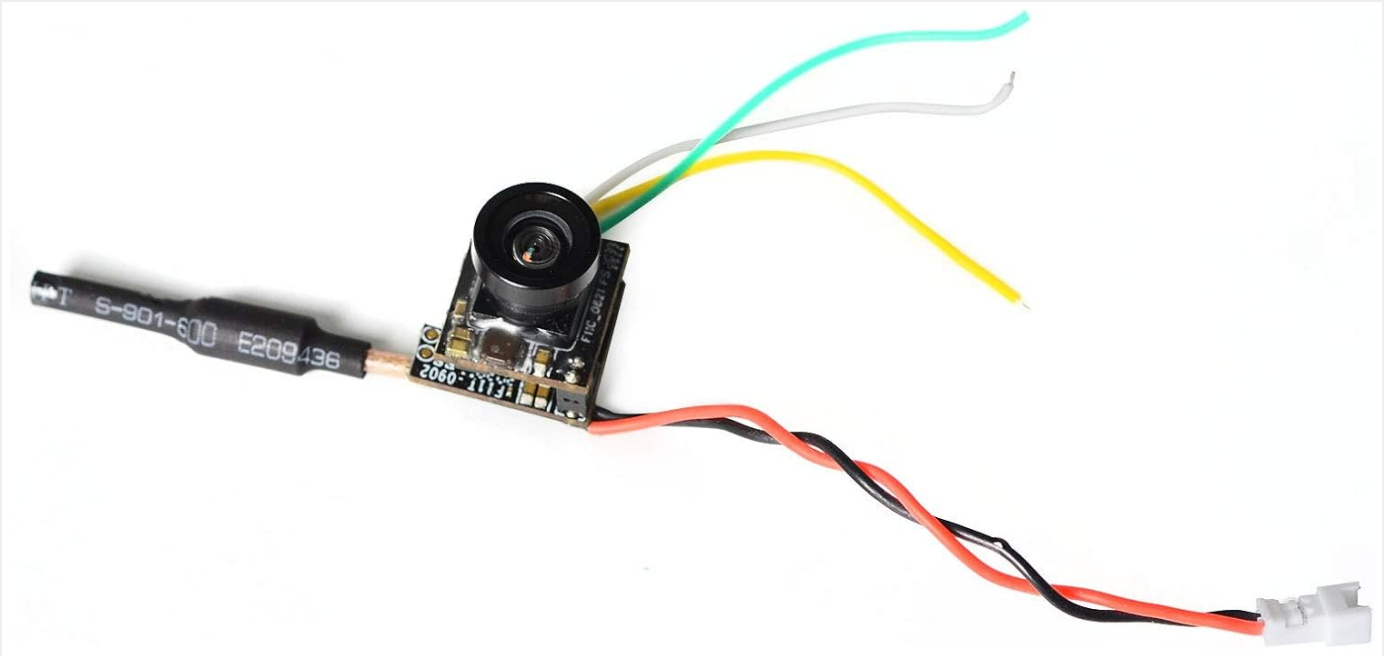


Image: Detailed wiring diagram for the AKK A11T, showing connections for Video In, Video Out, Smart Audio, GND, and Power (3.3-5.5V).

Wiring Connections:

- **Power Input:** Connect the red wire to 3.3V-5.5V DC power source and the black wire to Ground (GND). Ensure the voltage is within the specified range to prevent damage.
- **Video Output:** The yellow wire is the video output. Connect this to your flight controller's video input or directly to your FPV goggles/monitor if not using a flight controller for OSD.
- **Smart Audio:** The green wire is for Smart Audio. Connect this to a UART TX pad on your flight controller to enable OSD configuration via Betaflight or similar software.
- **Antenna:** The integrated dipole antenna is pre-soldered. Ensure it is not bent or damaged.

6. Operating Instructions

Powering On and LED Indicators:

Once correctly wired and powered, the unit will activate. Observe the LED indicators for status:

- **Blue LED:** Indicates power status.
- **Red LED:** Indicates the selected band.
- **Green LED:** Indicates the selected channel.

Frequency and Power Setup:

The AKK A11T supports both one-button manual configuration and Smart Audio for setting frequency and power levels.



Image: Diagram showing the button for switching between 25mW and 200mW power output.

- **Manual Configuration:** Press the button on the unit to cycle through channels, bands, and power levels. Refer to the product's specific channel table (usually printed on the unit or in a separate quick start guide) to identify the desired settings.
- **Smart Audio Configuration:** If connected to a flight controller with Smart Audio enabled, you can change VTX settings (band, channel, power) directly from your OSD menu using your radio transmitter sticks. This method is recommended for ease of use and precise control.

7. Specifications

Detailed technical specifications for the AKK A11T Micro AIO Camera:

Feature	Specification
Brand	AKK
Model Name	AKK A11T
Power Input	3.3V - 5.5V DC
Video Capture Resolution	FHD 1080p (Camera Sensor)
Connectivity Technology	Smart Audio, Bluetooth (for control)
Wireless Communication	Smart Audio
Optical Sensor Technology	CMOS
Material	Plastic
Dimensions	14mm x 12mm (approx.)
Weight	Ultra-lightweight
Output Power	25mW / 200mW (Switchable)

8. Troubleshooting

If you encounter issues with your AKK A11T, refer to the common troubleshooting steps below:

- **No Video Signal / Black Screen:**

- Check all wiring connections, especially power (3.3-5.5V) and video output.
- Ensure your FPV goggles/monitor are on the correct band and channel.
- Verify the camera is receiving power (check blue LED).
- If using a flight controller, ensure the video signal is correctly routed and OSD is configured.

- **Poor Video Quality / Static:**
  - Check for interference from other electronic components on your drone.
  - Ensure the antenna is securely connected and undamaged.
  - Try switching to a different channel or band.
  - Increase the VTX power output to 200mW if range is an issue (ensure local regulations allow this).
  - Ensure your FPV receiver antenna is compatible and properly oriented.
- **Smart Audio Not Working:**
  - Verify the Smart Audio wire is connected to the correct UART TX pad on your flight controller.
  - Ensure Smart Audio is enabled and configured correctly in your flight controller software (e.g., Betaflight).
  - Check for firmware compatibility issues between the VTX and flight controller.

9. Maintenance

To ensure the longevity and optimal performance of your AKK A11T, follow these maintenance guidelines:

- **Cleaning:** Gently clean the camera lens with a soft, dry cloth. Avoid using harsh chemicals.
- **Physical Inspection:** Regularly inspect the unit for any signs of physical damage, especially to the antenna and solder joints.
- **Cable Integrity:** Ensure all connecting wires are intact and not frayed. Replace damaged cables promptly.
- **Storage:** Store the camera in a dry, cool environment away from direct sunlight and extreme temperatures.

10. Warranty and Support

AKK products are designed for reliability and performance. For specific warranty information, please refer to the documentation included with your purchase or visit the official AKK website. For technical support or further assistance, please contact AKK customer service through their official channels.

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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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