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› ASHATA 1200TVL FPV Camera User Manual

ASHATA ASHATAzcvtrd8bfs

ASHATA 1200TVL FPV Camera User Manual

Model: ASHATAzcvtrd8bfs

INTRODUCTION

This manual provides comprehensive instructions for the ASHATA 1200TVL FPV Camera, designed for FPV racing RC drones. It covers product features, setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

SAFETY INFORMATION

- Always ensure proper power supply voltage to avoid damage to the camera. Refer to specifications for voltage requirements.
- Handle the camera with care to prevent damage to the lens or internal components.
- Keep the camera away from water, moisture, and extreme temperatures.
- Do not attempt to disassemble or modify the camera, as this will void the warranty and may cause damage.
- Ensure all connections are secure before powering on the device.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x FPV Camera
- 1 x 4-Pin Connection Cable
- 1 x Storage Box



Image: Contents of the ASHATA FPV Camera package, including the camera, its connecting cable, and a protective storage box.

PRODUCT OVERVIEW

The ASHATA 1200TVL FPV Camera is a compact and high-performance camera designed for FPV applications. Key features include:

- **1200TVL Resolution:** Provides clear and detailed video feed.
- **Global WDR:** Wide Dynamic Range for improved visibility in varying light conditions, especially beneficial for night viewing.
- **165° FOV:** Wide Field of View to capture more of the environment.
- **1/3in CMOS Sensor:** High-quality sensor for excellent image capture.
- **3D DNR:** 3D Digital Noise Reduction for cleaner images.
- **Compact and Lightweight:** Measures 14 x 14mm and weighs only 2g, ideal for small drones.
- **Adjustable Settings:** Allows for optimal exposure and light compensation.



Image: Front view of the ASHATA 1200TVL FPV Camera, showing the lens and the included 4-pin connection cable.



Image: Side profile of the ASHATA 1200TVL FPV Camera, highlighting its compact design and connection ports.



Adjustable settings, better exposure and light compensation overall features



Image: The ASHATA FPV Camera shown alongside a drone illustration, emphasizing its adjustable settings for optimal exposure and light compensation.

SETUP

1. **Identify Connection Points:** Locate the appropriate connection port on your FPV racing drone for the camera's 4-pin cable.
2. **Connect the Cable:** Carefully connect the provided 4-pin cable to the camera. Ensure the orientation is correct to avoid damage.
3. **Connect to Drone:** Connect the other end of the 4-pin cable to your drone's flight controller or video transmitter, following your drone's specific wiring diagram. Pay attention to power (VCC), ground (GND), video out (VOUT), and potentially control signals.
4. **Mount the Camera:** Securely mount the camera to your drone using appropriate mounting hardware (not included). Ensure the camera has a clear field of view and is protected from impacts.
5. **Power On:** Once all connections are secure and the camera is mounted, power on your drone. The camera should initialize and begin transmitting video.

OPERATING

The ASHATA 1200TVL FPV Camera is designed for immediate use upon proper installation. It does not require complex configuration for basic operation.

- **Video Feed:** Once powered, the camera will output a video signal. This signal should be received by your FPV goggles or monitor connected to your drone's video receiver.
- **Adjustable Settings:** The camera features adjustable settings for optimal exposure and light compensation. These settings are typically accessed via an OSD (On-Screen Display) menu, if supported by your flight controller, or through external control if the camera has dedicated control pins. Refer to your flight controller or video transmitter manual for OSD setup.
- **WDR and DNR:** The Global WDR and 3D DNR features operate automatically to enhance image quality in various lighting conditions and reduce visual noise.

MAINTENANCE

- **Lens Cleaning:** Gently clean the camera lens with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals that could scratch the lens.
- **Dust and Debris:** Keep the camera free from dust and debris. Use compressed air to remove particles from crevices if necessary.
- **Storage:** When not in use, store the camera in its provided storage box or a similar protective container to prevent physical damage and exposure to dust.
- **Connection Integrity:** Periodically check the 4-pin cable and its connections for any signs of wear, fraying, or loose contacts. Replace if necessary.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No video signal	Loose cable connection; Incorrect wiring; Insufficient power; Damaged camera/cable.	Check all cable connections; Verify wiring against drone's diagram; Ensure stable power supply; Test with a known good cable/camera if possible.
Poor image quality (blurry/grainy)	Dirty lens; Low light conditions; Interference; Incorrect camera settings.	Clean the lens; Ensure adequate lighting; Check for sources of electrical interference; Adjust camera settings (exposure, light compensation) if accessible.
Camera not recognized by OSD	Incorrect OSD wiring; OSD not enabled in flight controller.	Verify OSD connection to camera; Enable OSD feature in flight controller software (e.g., Betaflight, INAV).

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Resolution	1200TVL
Sensor	1/3in CMOS
Field of View (FOV)	165°
Features	Global WDR, 3D DNR
Dimensions	14 x 14mm (approx. 0.55 x 0.55 inches)
Weight	2g (approx. 0.07 ounces)
Material	ABS
Application	FPV Racing RC Drones

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the ASHATA official website or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, you may also refer to online FPV community forums and resources, as this camera is widely compatible with various FPV systems.

