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› Fat Shark FSV1225-900TVL CCD WDR Pilot's Camera Instruction Manual

Fat Shark FSV1225

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Instruction Manual

1. INTRODUCTION

The Fat Shark FSV1225-900TVL CCD WDR Pilot's Camera is a high-resolution camera designed for FPV (First Person View) applications. It features a 900TVL CCD imager with Wide Dynamic Range (WDR) capabilities, providing clear and detailed video feedback. Its compact design and low power consumption make it suitable for various aerial platforms.

2. SAFETY INFORMATION

This product is intended for users 14 years and above. Always handle electronic components with care. Ensure proper power connections to avoid damage to the camera or other equipment. Do not expose the camera to extreme temperatures or moisture. Disconnect power before making any wiring changes.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- Fat Shark FSV1225-900TVL Camera
- Power/Video Cable
- Mounting Bracket
- Lens Cleaning Cloth



Figure 3.1: Included power/video cable and lens cleaning cloth.

4. SETUP

4.1 Camera Overview



Figure 4.1: Front view of the camera with connection ports labeled.



Figure 4.2: Side view of the camera, highlighting the lens.

4.2 Mounting the Camera

The camera comes with a custom plastic shell and an adjustable mounting bracket. Secure the camera to your desired platform using appropriate screws or adhesive. Ensure the camera is firmly attached to prevent vibration and movement during operation.

4.3 Wiring Connections

The FSV1225-900TVL camera operates on a voltage range of 3.3V to 5V. Connect the camera using the supplied power/video cable. Refer to the pinout diagram on the camera's back for correct connections:

- **5V:** Power input (3.3V - 5V DC)
- **GND:** Ground connection
- **VID:** Video output (PAL format)
- **OSD:** On-Screen Display control (if applicable, refer to specific OSD controller manual)

Ensure polarity is correct when connecting power to avoid damaging the camera. The camera is designed for low RF interference, making it suitable for use with UHF systems.

5. OPERATING INSTRUCTIONS

5.1 Powering On

Once properly wired and mounted, apply power within the 3.3V-5V range. The camera will automatically power on and begin transmitting video in PAL format.

5.2 Video Output

The camera provides a standard PAL video output. Connect the VID pin to your video transmitter or monitor's video input. The 900 TVL resolution ensures a clear and detailed image.

5.3 Lens Adjustment

The camera features a fixed lens. For optimal focus, ensure the lens is clean and free from obstructions. If the lens is adjustable, gently rotate it to achieve the sharpest image, then secure it if necessary.

6. MAINTENANCE

- **Cleaning:** Use the provided lens cleaning cloth or a soft, lint-free cloth to gently clean the camera lens. Avoid using harsh chemicals.
- **Storage:** Store the camera in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the wiring and connections for any signs of wear or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output	Incorrect wiring, insufficient power, faulty cable, monitor not set to PAL.	Check all wiring connections for correct polarity and secure fit. Verify power supply is within 3.3V-5V. Test with a different cable. Ensure your monitor/receiver supports PAL format.
Fuzzy or blurry image	Dirty lens, out of focus lens (if adjustable), vibration.	Clean the lens with a soft cloth. If the lens is adjustable, gently rotate it to achieve focus. Secure the camera firmly to reduce vibration.
Intermittent video signal	Loose connection, power fluctuations, RF interference.	Check all connections. Ensure stable power supply. Minimize proximity to other RF-emitting devices.

8. SPECIFICATIONS

Feature	Detail
Model Number	FSV1225
Video Format	PAL
Resolution	900 TVL

Feature	Detail
Imager	1/3" Sony CCD
Operating Voltage	3.3V - 5V
RF Compatibility	Low RF for UHF friendly flights
Dimensions (L x W x H)	1" x 1" x 1" (approximate)
Item Weight	1.58 ounces
Lens Type	Wide Angle
Optical Sensor Technology	CCD

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Fat Shark website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

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