

FOTGA DP500IIIS A70TLS

Fotga DP500IIIS A70TLS 7-Inch On-Camera Field Monitor

User Manual

1. INTRODUCTION

The Fotga DP500IIIS A70TLS is a high-performance 7-inch Full HD IPS video on-camera field monitor designed for professional videography and filmmaking. It offers a 1920x1080 resolution display with touch screen control, advanced monitoring features like 3D LUT, waveform, and vector scope, and versatile connectivity options including 3G SDI and 4K HDMI. This manual provides detailed instructions for setting up, operating, and maintaining your monitor.

Key Features

- **7-inch Full HD IPS Display:** 1920x1080 resolution, 450cd/m2 brightness, 1200:1 contrast ratio, 178° wide viewing angle.
- **Touch Screen Control:** Intuitive touch interface combined with physical buttons for efficient operation.
- **3D LUT Support:** Includes 5 default LUTs and supports importing up to 8 custom LUT files via USB.
- **Versatile Connectivity:** Features 3G SDI and 4K HDMI input/output, 3.5mm headphone output, and USB for firmware upgrades.
- **Flexible Power Options:** Supports dual NP-F series batteries (NP-F970, F770, F550, F570) and AC power. Includes battery output to power your camera.
- **Advanced Monitoring Tools:** Histogram, Peaking Filter, False Colors, Zebra Exposure, Embedded Audio, Pixel-to-Pixel, Check Field, Image Flip, Anamorphic, Image Freeze, Zoom-in.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove all components from the packaging. Verify that all items listed in the product packaging are present and undamaged. If any items are missing or damaged, contact your retailer immediately.

2.2 Powering the Monitor

The monitor can be powered using dual NP-F series batteries or an AC power adapter.

- **Battery Installation:** Insert two compatible NP-F series batteries (e.g., NP-F970, F770, F550, F570) into the dual battery compartments on the rear of the monitor. Ensure correct polarity.
- **AC Power:** Connect a compatible AC power adapter to the DC IN port on the side of the monitor.

- **Camera Power Output:** The monitor features a battery output (BAT OUT) to power your camera directly using a dummy battery (sold separately) when the monitor is powered by NP-F or LP-E6 batteries.
- **LP-E6 Battery Support:** An optional adapter plate (sold separately) allows the use of LP-E6 batteries.



Figure 2.2.1: Power output and double battery setup. The image displays the rear of the monitor with two battery slots, along with various NP-F series batteries (F570, F770, F970) and an LP-E6 battery plate, illustrating the flexible power options.



Figure 2.2.2: Rear panel of the monitor. This view highlights the dual NP-F battery plates, HDMI input/output, SDI input/output, USB port, and DC power input, along with the headphone and battery output ports.

2.3 Connecting to a Camera

The monitor supports both 3G SDI and 4K HDMI connections for video input and output.

- **HDMI Connection:** Connect an HDMI cable from your camera's HDMI output to the monitor's HDMI IN port. For output, use the HDMI OUT port.
- **SDI Connection:** Connect an SDI cable from your camera's SDI output to the monitor's SDI IN port. For output, use the SDI OUT port.
- **Audio:** Connect headphones to the 3.5mm headphone output for audio monitoring. The monitor also has a built-in loudspeaker.



Figure 2.3.1: Monitor mounted on a camera rig. This image demonstrates the monitor in a typical operational setup, connected to a camera, providing a clear view of the display in a production environment.



Figure 2.3.2: Detail of SDI ports. A close-up showing the SDI IN and SDI OUT ports, with an SDI cable connected to the input, illustrating the professional video connectivity.

2.4 Mounting the Monitor

The monitor features multiple connecting holes (1/4", 3/8", M6, and cold shoe connector) for flexible mounting options on camera rigs, cages, or stands.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation and Control

The Fotga DP500IIIS A70TLS monitor supports both touch screen and physical button control. The front frame includes white marks for each button to facilitate quick and effective operation.

- **Power On/Off:** Press and hold the power button (usually located on the top or side) to turn the monitor on or off.
- **Touch Screen Navigation:** Tap icons and swipe to navigate through menus and adjust settings.
- **Physical Buttons:** Use the dedicated buttons for common functions or assign custom shortcuts.

TOUCH SCREEN CONTROL SILENT LIGHT BUTTON



Figure 3.1.1: Touch screen control interface. The image shows a finger interacting with the monitor's touch screen, navigating through display settings such as backlight, color temperature, and color space, demonstrating the intuitive user interface.

3.2 Menu Functions

Access the main menu by tapping the screen or pressing the menu button. Key menu categories include:

- **Display Settings:** Adjust brightness, contrast, saturation, backlight, color temperature, and color space (e.g., DCI-P3).
- **Function Settings:** Enable/disable monitoring tools such as Peaking, False Color, Zebra, Histogram, Waveform, Vector Scope, etc.
- **LUT Settings:** Manage 3D LUTs.
- **System Settings:** Language, firmware information, reset options.



Figure 3.2.1: Advanced monitoring tools. This image illustrates the monitor's capability to display 3D LUTs, waveform, vector scope, and other professional analysis tools simultaneously, aiding in precise image evaluation.

3.3 3D LUT Function

The monitor supports 3D LUT (Look Up Table) functionality for accurate color grading and preview. There are 5 undeletable internal LUT files, and you can import up to 8 additional custom LUT files.

- **Importing LUTs:** Connect a USB disk containing your .cube LUT files to the monitor's USB port. Navigate to the LUT settings in the menu and select the option to import.
- **Applying LUTs:** Select the desired LUT from the menu to apply it to your video feed for real-time preview.

3.4 Remote Control (J6 Port)

The monitor features a J6 port that allows for remote control of its functions when connected to compatible JTZ DP30 accessories such as a top handle, hand grip, or follow focus system. Refer to the documentation of your JTZ DP30 accessory for specific instructions on remote operation.

4. MAINTENANCE

4.1 Cleaning the Monitor

- Use a soft, lint-free cloth to gently wipe the screen and body of the monitor.
- For stubborn smudges, slightly dampen the cloth with water or a screen-cleaning solution. Avoid harsh chemicals or abrasive materials.
- Ensure the monitor is powered off and disconnected from all power sources before cleaning.

4.2 Firmware Upgrade

Firmware updates may be released to improve performance or add new features. You can download the latest firmware from the official Fotga website.

- **Procedure:** Transfer the firmware file to a USB disk. Connect the USB disk to the monitor's USB port. Follow the on-screen instructions or refer to the specific firmware update guide provided on the Fotga website.
- **Important:** Ensure the monitor remains powered throughout the entire firmware upgrade process. Do not power off the device during an update, as this may cause irreversible damage.

5. TROUBLESHOOTING

If you encounter issues with your Fotga DP500IIIS A70TLS monitor, refer to the following common troubleshooting steps:

- **No Power:**
 - Check battery charge levels or ensure the AC adapter is securely connected and functioning.
 - Verify that batteries are inserted with correct polarity.
- **No Video Signal:**
 - Ensure the HDMI or SDI cable is securely connected to both the camera and the monitor.
 - Verify the camera's video output settings match the monitor's input capabilities (e.g., resolution, frame rate).
 - Confirm the correct input source (HDMI IN or SDI IN) is selected on the monitor.
 - Test with a different cable or camera if possible.
- **Screen Flickering or Distorted Image:**
 - Check cable connections for looseness or damage.
 - Ensure the input signal is stable and within the monitor's supported range.
 - Try resetting the monitor to factory default settings.
- **Touch Screen Unresponsive:**
 - Restart the monitor.
 - Ensure the screen is clean and free of debris.
 - If the issue persists, use physical buttons for navigation and consider a firmware update.

If these steps do not resolve the issue, please contact Fotga customer support for further assistance.

6. SPECIFICATIONS

Feature	Specification
---------	---------------

Model	DP500IIIS A70TLS
Screen Size	7 inch
Screen Type	Wide Color Gamut IPS Display
Resolution	1920x1080
Brightness	450 cd/m²
Contrast Ratio	1200:1
Viewing Angle	178° (H/V)
Input Ports	3G SDI, 4K HDMI
Output Ports	3G SDI, 4K HDMI, 3.5mm Headphone, BAT OUT
Other Ports	USB (for firmware/LUT import), DC IN, J6 Remote
Power Source	Dual NP-F Battery (NP-F970, F770, F550, F570), AC Power Adapter
Dimensions	25.91 x 17.53 x 8.89 cm
Weight	1.12 kg

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Fotga website. Keep your purchase receipt as proof of purchase for warranty claims.
Official Fotga Website: www.fotga.com (Please note: This is a placeholder URL. Refer to your product's official documentation for the correct support website.)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question