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FEELWORLD MG-L1PLUS

FEELWORLD L1 Plus Multi-Camera Video Mixer Switcher User Manual

Model: MG-L1PLUS

1. Introduction

The FEELWORLD L1 Plus is a compact multi-camera video mixer and switcher designed for live production, streaming, and recording. It features four HDMI inputs, USB 2.0 recording, USB 3.0 fast streaming, PTZ camera control, and a 2-inch TFT touch screen for intuitive operation. This manual provides detailed instructions for setting up, operating, and maintaining your L1 Plus device.

2. Safety Information

Please read and understand the following safety precautions before using the device:

- Do not expose the device to rain, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating.
- Use only the provided power adapter or a compatible power source.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.

3. Product Overview

Familiarize yourself with the various components and ports of your FEELWORLD L1 Plus.

3.1 Front Panel



Image 1: The front panel of the FEELWORLD L1 Plus, showing the 2-inch TFT touch screen, input selection buttons (1-4), T-Bar for transitions, joystick for PTZ control, and menu/switch buttons.

- **Input Buttons (1-4):** Select video input sources.
- **T-Bar:** Manual control for video transitions.
- **2-inch TFT Touch Screen:** Displays current program output, input previews, and menu options.
- **Joystick:** Controls PTZ camera movement, Picture-in-Picture (PIP) position, and logo overlay size.
- **MENU Button:** Accesses system settings and advanced features.
- **SW Button:** Toggles between program and preview outputs.

3.2 Rear and Side Panels



Image 2: Various views of the FEELWORLD L1 Plus, highlighting the rear panel with HDMI inputs/output and USB-C power, and side panels with audio, control, and USB ports.

- **HDMI IN (1-4):** Connect up to four HDMI video sources.
- **HDMI OUT:** Connect to a monitor for program output.
- **USB-C:** Power input for the device.
- **USB 2.0 (RECORD):** Connect a USB storage device for recording.
- **USB 3.0 (WEBCAM):** Connect to a computer for fast streaming as a webcam source.
- **CONTROL (RJ45):** Ethernet port for remote control and PTZ camera communication.
- **LINE IN (3.5mm):** External audio input.
- **HEADPHONE (3.5mm):** Audio monitoring output.
- **ON/OFF Switch:** Power control for the device.

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4. Setup

Follow these steps to set up your FEELWORLD L1 Plus for operation.

4.1 Connecting Power

1. Connect the provided USB-C power adapter to the USB-C port on the rear panel of the L1 Plus.
2. Plug the power adapter into a suitable electrical outlet.
3. Toggle the ON/OFF switch to the 'ON' position to power on the device.

4.2 Connecting Video Sources

1. Connect your HDMI cameras or other video sources to the HDMI IN 1-4 ports on the rear panel. The L1 Plus supports up to 4K@60Hz input.
2. Connect an HDMI monitor to the HDMI OUT port to view the program output.

4.3 Connecting Audio



Image 4: Close-up view of the side panel showing the Line In, Control (Ethernet), and Webcam (USB 3.0) ports, along with a headphone jack.

- **HDMI Embedded Audio:** The L1 Plus automatically detects audio embedded in the HDMI input signals.
- **External Audio:** Connect an external audio source (e.g., microphone mixer) to the LINE IN (3.5mm) port.
- **Audio Monitoring:** Connect headphones to the HEADPHONE (3.5mm) port to monitor the mixed audio.

4.4 Connecting to Computer for Streaming/Recording

- **For Streaming:** Connect the USB 3.0 (WEBCAM) port to your computer using a USB 3.0 cable. The L1 Plus will be recognized as a webcam, allowing you to use it with streaming software.
- **For Recording:** Connect a USB storage device (e.g., USB flash drive, external hard drive) to the USB 2.0 (RECORD) port for direct recording of the program output.

4.5 Connecting PTZ Cameras

Connect compatible PTZ cameras to the CONTROL (RJ45) Ethernet port for joystick control functionality.

5. Operating Instructions

This section details the operation of the FEELWORLD L1 Plus.

5.1 Basic Switching

- **Direct Switching:** Press input buttons (1-4) to directly switch the program output to the selected source.
- **T-Bar Transitions:** Use the T-Bar to manually perform smooth transitions between the preview and program outputs.
- **SW Button:** Press the SW button to instantly switch between the currently selected preview input and the program output.

5.2 Touch Screen Interface

The 2-inch TFT touch screen provides access to various settings and monitoring functions.

- Tap icons to navigate menus and adjust settings.
- The screen displays input previews, program output, and system status.

5.3 PTZ Control

Use the joystick to control connected PTZ cameras. The joystick allows for pan, tilt, and zoom adjustments, as well as focus control.

5.4 Chroma Key

The L1 Plus supports Chroma Key functionality for green screen or blue screen effects. Access Chroma Key settings via the touch screen menu to adjust parameters for seamless background removal.

5.5 Transitions and PIP Modes

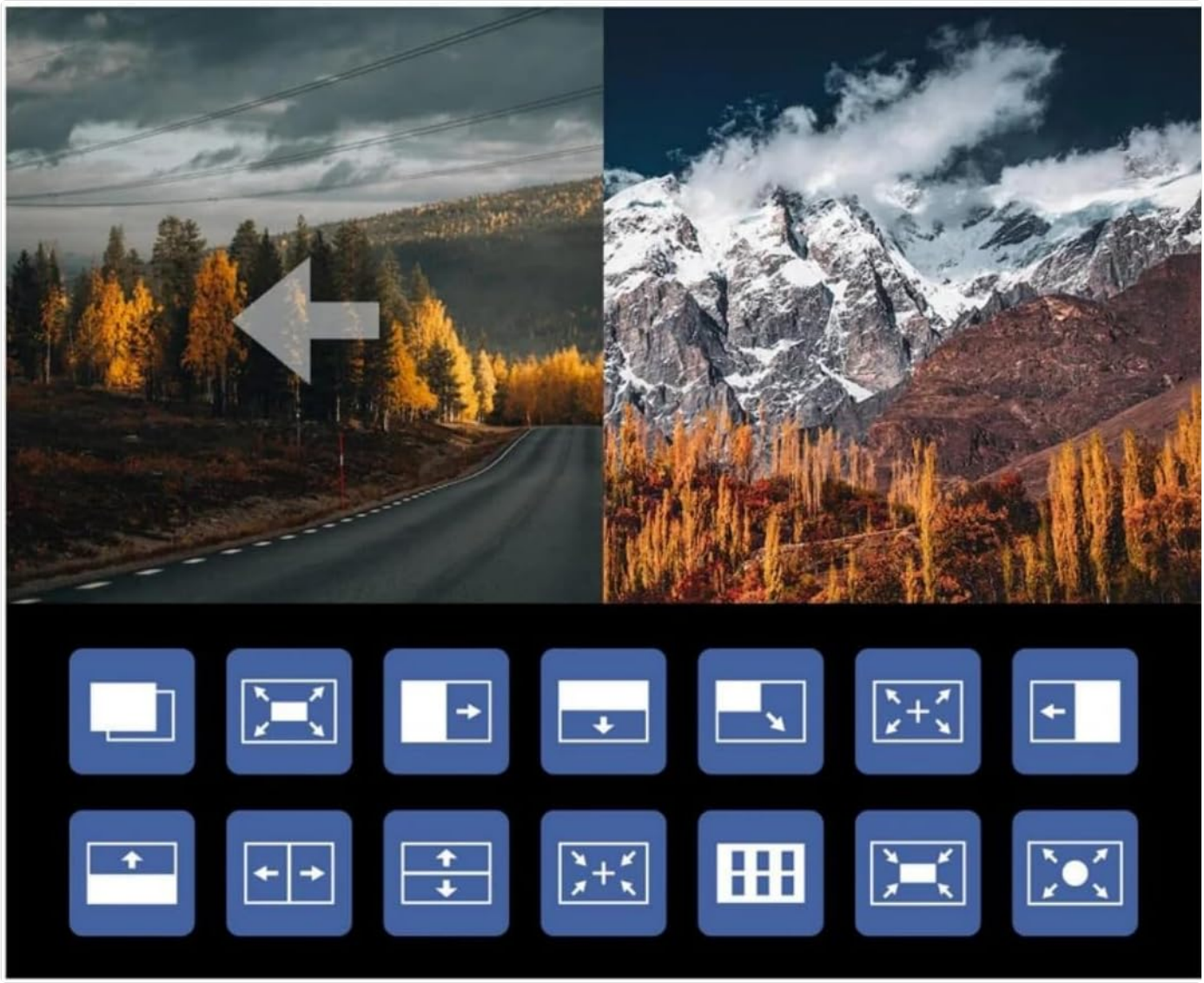


Image 3: An illustration showing various transition effects and Picture-in-Picture (PIP) modes available on the FEELWORLD L1 Plus.

- The L1 Plus offers 14 transition effects and 8 Picture-in-Picture (PIP) modes.
- Select desired transitions and PIP layouts through the touch screen menu.
- Adjust transition duration from 0 to 10 seconds.
- Use the joystick to position and resize PIP windows.

5.6 Recording and Streaming

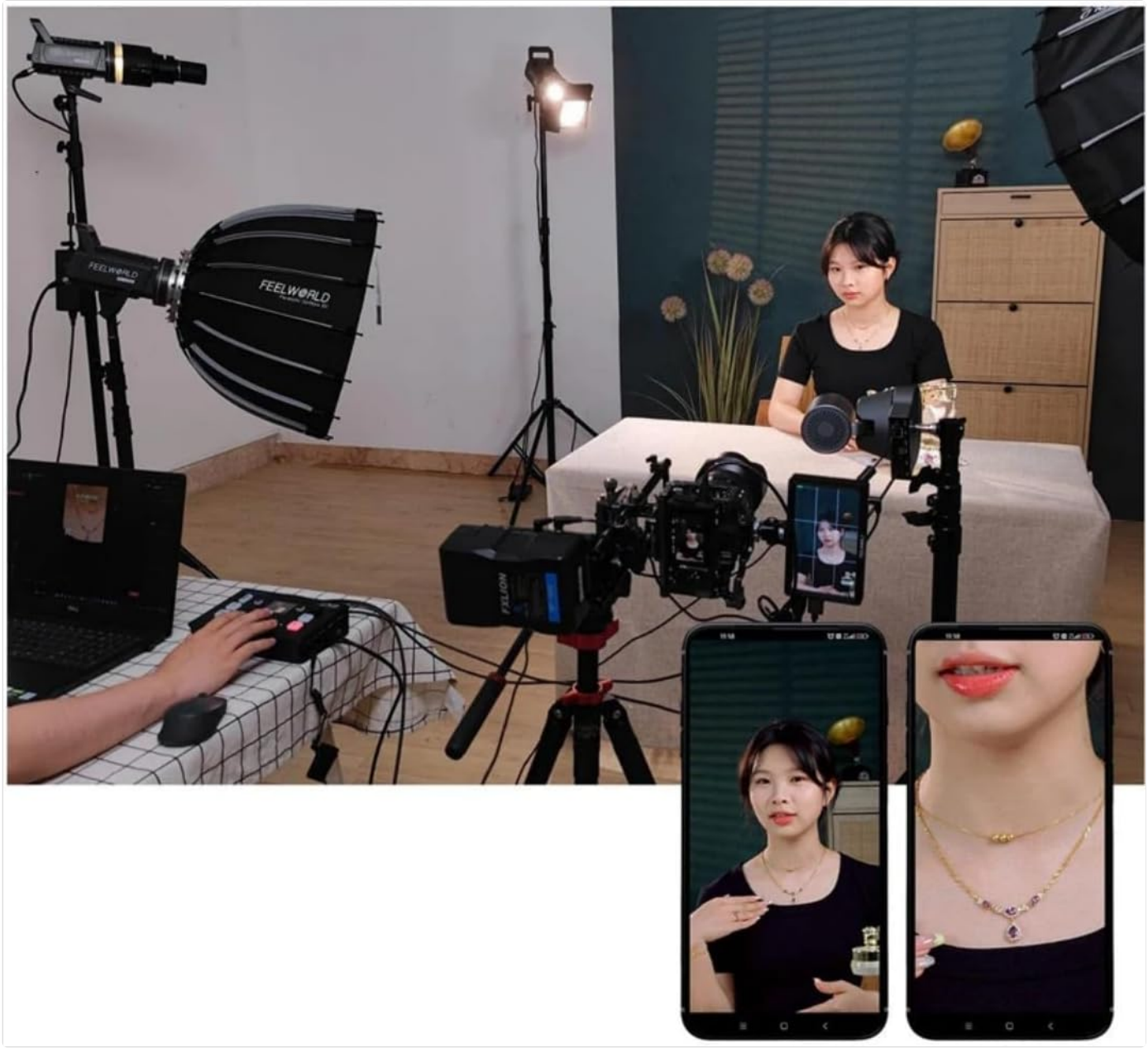


Image 5: A typical live streaming setup demonstrating the FEELWORLD L1 Plus connected to cameras and a computer for broadcasting.

- **Recording:** Insert a formatted USB storage device into the USB 2.0 (RECORD) port. Use the touch screen menu to initiate and manage recordings.
- **Streaming:** Connect the USB 3.0 (WEBCAM) port to your computer. The L1 Plus will appear as a video input source in your streaming software (e.g., OBS, vMix).

5.7 Audio Mixing

The L1 Plus supports mixing HDMI embedded audio with external audio from the LINE IN port. Adjust audio levels and apply delay compensation via the touch screen menu.

5.8 Remote Control

The device can be remotely controlled via a PC or smartphone application. Refer to the FEELWORLD website for specific software and connection instructions.

5.9 Views Saving and Fast Call



Image 6: A close-up of the L1 Plus touch screen displaying the 'Views Saving' interface, allowing users to store and recall specific camera configurations.



Image 7: A close-up of the L1 Plus touch screen displaying the 'Fast Call' interface, enabling quick recall of saved views. The L1 Plus allows you to save and quickly recall specific camera views and configurations, streamlining multi-camera productions. Access 'Views Saving' and 'Fast Call' options through the touch screen menu.

6. Maintenance

To ensure the longevity and optimal performance of your L1 Plus:

- Clean the device with a soft, dry cloth. Avoid liquid cleaners.
- Store the device in a cool, dry place when not in use.
- Keep ports free of dust and debris.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

- **No Power:** Ensure the USB-C power adapter is securely connected and the ON/OFF switch is in the 'ON' position. Try a different power outlet.

- **No Video Output:** Verify all HDMI cables are securely connected. Check input source settings on connected cameras and output settings on the L1 Plus. Ensure the monitor is set to the correct HDMI input.
- **No Audio:** Check audio input settings on the L1 Plus. Ensure HDMI sources are sending audio and external audio is properly connected to the LINE IN port. Verify headphone connection for monitoring.
- **Streaming Issues:** Ensure the USB 3.0 (WEBCAM) port is connected to your computer and recognized by your streaming software. Check software settings for correct video and audio input selection.
- **PTZ Control Not Working:** Verify PTZ camera is compatible and correctly connected to the CONTROL port. Check PTZ settings within the L1 Plus menu.

For further assistance, please contact FEELWORLD customer support.

8. Specifications

Model Number	MG-L1PLUS
Brand	FEELWORLD
Package Dimensions	8.66 x 5.59 x 4.33 inches
Item Weight	1.98 pounds
Connector Type	HDMI, USB
Compatible Devices	Camera
Number of Ports	5 (4 HDMI In, 1 HDMI Out, USB 2.0, USB 3.0, Line In, Control)

9. Warranty and Support

FEELWORLD products are covered by a limited warranty. For detailed warranty information, technical support, or service inquiries, please visit the official FEELWORLD website or contact their customer service department. Keep your purchase receipt for warranty claims.

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