

MT-VIKI MT-L4UHD-DE

MT-VIKI HDMI Live Stream Switcher (Model: MT-L4UHD-DE) User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. INTRODUCTION

Thank you for choosing the MT-VIKI HDMI Live Stream Switcher, Model MT-L4UHD-DE. This device is designed to simplify multi-camera live productions, allowing you to switch between up to four HDMI video sources, mix audio, and output a professional program feed for live streaming or recording. This manual provides detailed instructions to help you set up, operate, and maintain your switcher effectively.

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Video 1.1: Introduction to the MT-VIKI Video Mixer Switcher. This video provides a brief overview of the device's capabilities and primary functions, demonstrating its role in live video production workflows.

2. SAFETY INFORMATION

- **Power Supply:** Use only the provided power adapter. Ensure the voltage matches the requirements specified on the adapter.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the device to prevent overheating.
- **Moisture:** Keep the device away from water, rain, and high humidity. Do not operate with wet hands.
- **Placement:** Place the device on a stable, flat surface. Avoid placing it near heat sources or in direct sunlight.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to open or service the device yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Please check the package for the following items:

- MT-VIKI HDMI Live Stream Switcher (MT-L4UHD-DE)
- Power Adapter
- Ethernet Cable (for software control/updates)
- User Manual (this document)



Image 3.1: Package Contents. This image displays the MT-VIKI HDMI Live Stream Switcher, its power adapter, and an Ethernet cable, which are typically included in the product packaging.

4. PRODUCT OVERVIEW

Familiarize yourself with the layout of the MT-VIKI HDMI Live Stream Switcher.

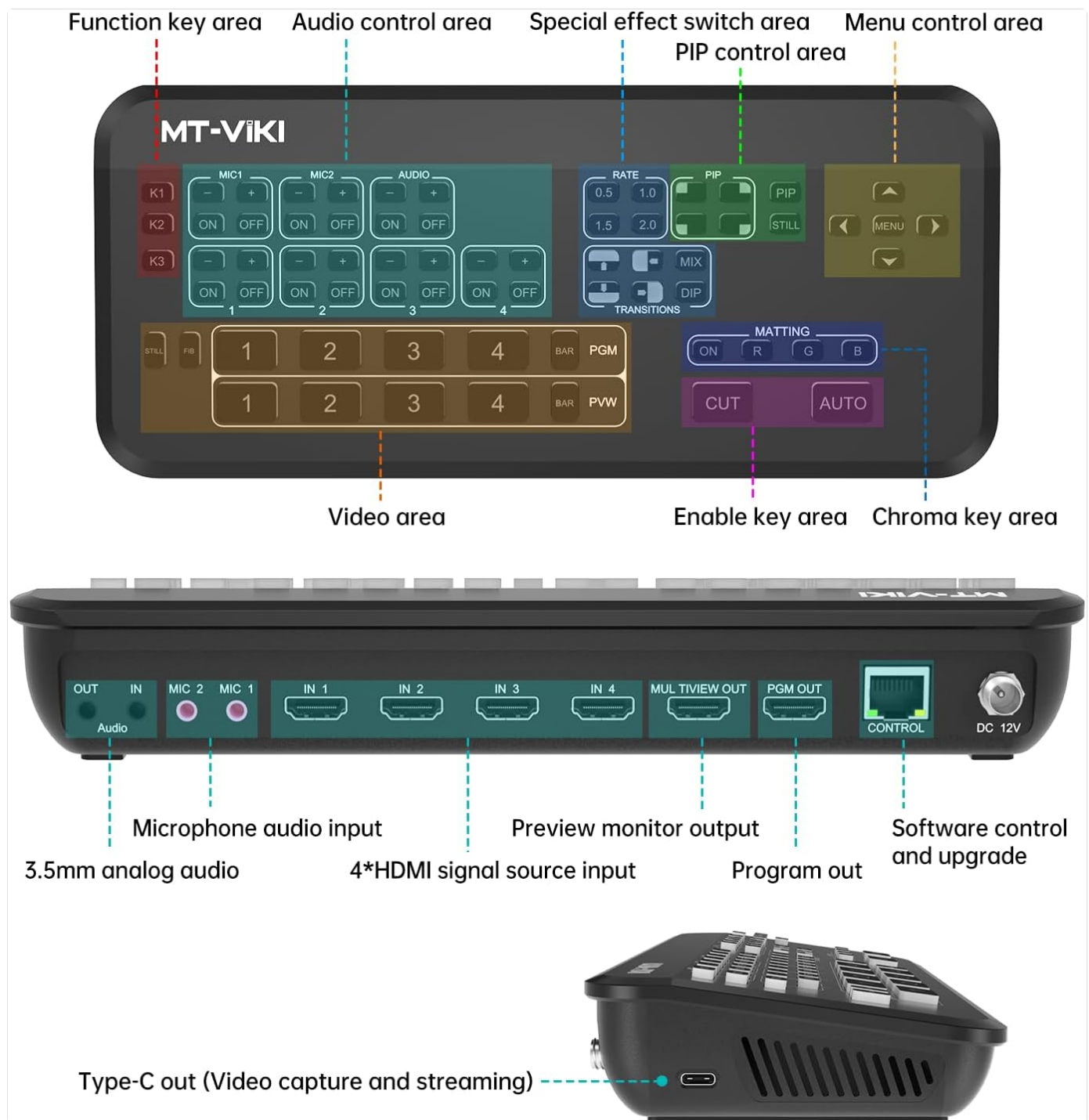


Image 4.1: Front and Rear Panel Layout. This diagram labels the various function areas on the top panel (Function Key, Audio Control, Special Effect, PIP Control, Menu Control, Video Area, Enable Key, Chroma Key) and the input/output ports on the rear panel (Microphone Audio Input, 3.5mm Analog Audio, HDMI Signal Source Inputs, Preview Monitor Output, Program Out, Software Control and Upgrade, DC 12V Power, and Type-C Video Capture/Streaming port).

4.1 Front Panel Controls

- **K1, K2, K3 Buttons:** Function keys for specific operations.
- **MIC1/MIC2/AUDIO Controls:** ON/OFF switches and +/- buttons for adjusting microphone and analog audio input levels.
- **RATE:** Adjusts the speed of transitions (0.5, 1.0, 1.5, 2.0 seconds).
- **PIP Controls:** Buttons for Picture-in-Picture activation, position, and size adjustments.
- **STILL:** Activates still image function.

- **MENU:** Accesses the device's menu system.
- **Video Area (1-4 PGM/PVW):** Buttons to select input sources for Program (PGM) and Preview (PVW) outputs.
- **TRANSITIONS (MIX/DIP/WIPE):** Selects different video transition effects.
- **MATTING (ON/R/G/B/CUT/AUTO):** Controls for Chroma Key (green screen) functionality.

4.2 Rear Panel Ports

- **AUDIO OUT:** 3.5mm stereo analog audio output.
- **MIC 2 / MIC 1:** 3.5mm microphone audio inputs.
- **AUDIO IN:** 3.5mm stereo analog audio input.
- **IN 1 / IN 2 / IN 3 / IN 4:** HDMI video signal source inputs.
- **MULTIVIEW OUT (PVW):** HDMI preview monitor output.
- **PGM OUT:** HDMI program output.
- **CONTROL:** RJ45 Ethernet port for software control and firmware updates.
- **DC 12V:** Power input port.

4.3 Side Panel Port

- **Type-C OUT:** USB Type-C port for video capture and streaming to a computer.

5. SETUP

Follow these steps to set up your MT-VIKI HDMI Live Stream Switcher:

1. **Connect Power:** Connect the provided 12V DC power adapter to the "DC 12V" port on the rear panel and plug it into a power outlet. The device will power on automatically.
2. **Connect HDMI Sources:** Connect your HDMI cameras, gaming consoles, computers, or other video sources to the "IN 1" through "IN 4" HDMI input ports on the rear panel.
3. **Connect HDMI Outputs:**
 - Connect a monitor to the "MULTIVIEW OUT" (PVW) port to view all input sources simultaneously, along with program and preview feeds.
 - Connect another monitor or a video recorder to the "PGM OUT" port for your main program output.
4. **Connect Audio Inputs (Optional):**
 - Connect microphones to the "MIC 1" and "MIC 2" 3.5mm ports.
 - Connect an external audio device (e.g., music player) to the "AUDIO IN" 3.5mm port.
5. **Connect Audio Output (Optional):** Connect headphones or external speakers to the "AUDIO OUT" 3.5mm port to monitor the mixed audio.
6. **Connect to Computer for Streaming/Recording (Optional):** Connect a USB Type-C cable from the "Type-C OUT" port on the side of the switcher to a USB port on your computer. This allows the switcher to be recognized as a webcam for streaming software (e.g., OBS, vMix) or for direct recording.
7. **Connect to Network for Control/Updates (Optional):** Connect an Ethernet cable from the "CONTROL" port to your network router or directly to a computer for software control and firmware updates.



Image 5.1: Example Setup. This image illustrates a typical setup with the MT-VIKI switcher connected to multiple cameras, laptops, and external monitors, demonstrating a multi-source live production environment.

6. OPERATING INSTRUCTIONS

This section details the operational features of your MT-VIKI HDMI Live Stream Switcher.

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Video 6.1: Introduction for Live Streaming Switcher. This comprehensive video provides an in-depth guide to the various functions and controls of the MT-VIKI Live Stream Switcher, covering basic operations to advanced features.

6.1 Basic Video Switching

1. **Preview Selection:** Press any of the "1" to "4" buttons in the **PVW** row to send that input source to the preview output (MULTIVIEW OUT). This source will appear in the preview window on your multiview monitor.
2. **Program Selection:** Press any of the "1" to "4" buttons in the **PGM** row to immediately send that input source to the program output (PGM OUT). This is a direct cut.
3. **Transitioning Sources:** To perform a transition, first select your desired next source in the **PVW** row. Then, select a transition effect (MIX, DIP, WIPE) and adjust the RATE. Press the **CUT** or **AUTO** button (if available, or use the transition bar) to execute the transition from the current PGM source to the PVW source.

6.2 Audio Mixing

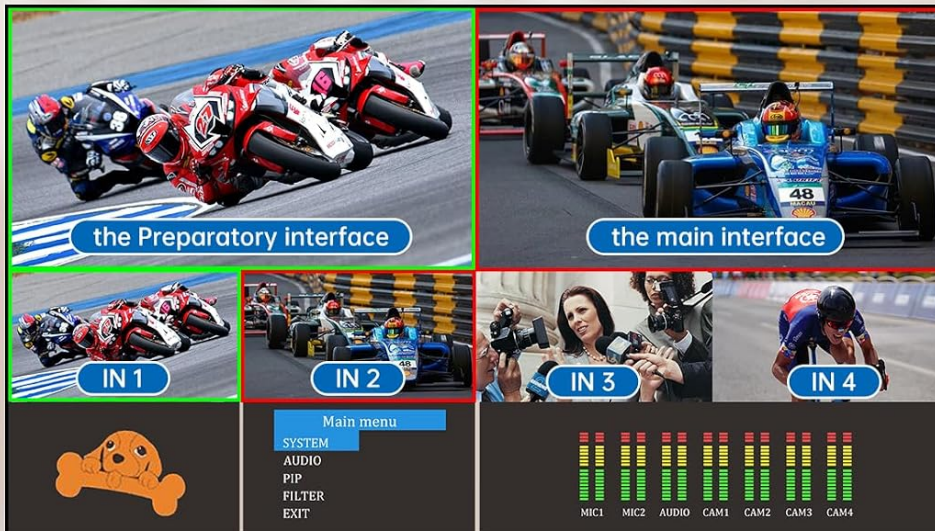
The switcher features a Fairlight audio mixer for all HDMI audio inputs and microphone inputs.

- **Enable/Disable Audio:** Use the "ON/OFF" switches for MIC1, MIC2, and AUDIO (analog input) to enable or disable these audio sources. HDMI audio is typically active when its video source is selected.
- **Adjust Levels:** Use the "+" and "-" buttons next to each audio source (MIC1, MIC2, AUDIO, and HDMI inputs 1-4) to adjust their individual volume levels.

6.3 Picture-in-Picture (PIP)

The PIP function allows you to display one video source as a smaller window over another main video source.

PVW



Multi-format input, support 4-CH FHD HDMI inputs and Multiview PGM out also built-in 2 Mic in & LINE IN/OUT.

PGM



The size, position, and border color of PIP window can be adjusted according to users needs.

Image 6.1: Multi-View and PIP Output. This image demonstrates the multi-view output showing all four inputs, menu, and audio levels, as well as the program output with a Picture-in-Picture (PIP) window, illustrating how PIP size, position, and border color can be customized.

1. **Activate PIP:** Press the "PIP" button in the PIP control area.
2. **Select PIP Source:** Use the PGM/PVW buttons to select which input will be the main background and which will be the PIP window.
3. **Adjust PIP:** Use the arrow buttons and other controls in the PIP area to adjust the position, size, and border color of the PIP window.
4. **Still/FTB Function:** The PIP function also supports Still/FTB (Fade to Black) to manage unexpected situations during live broadcasts.

6.4 Transition Effects

The switcher offers various transition effects to switch between video sources smoothly.

- **MIX:** A smooth dissolve between sources.
- **DIP:** Dips to a solid color (usually black) before transitioning to the next source.

- **WIPE:** Offers 4 different wipe patterns to transition between sources.
- **RATE:** Adjust the transition speed using the RATE buttons (0.5, 1.0, 1.5, 2.0 seconds).

6.5 Chroma Key (RGB Background Cutout)

This feature allows you to remove a specific color background (green, blue, or red) from a video source and replace it with another video or still image.

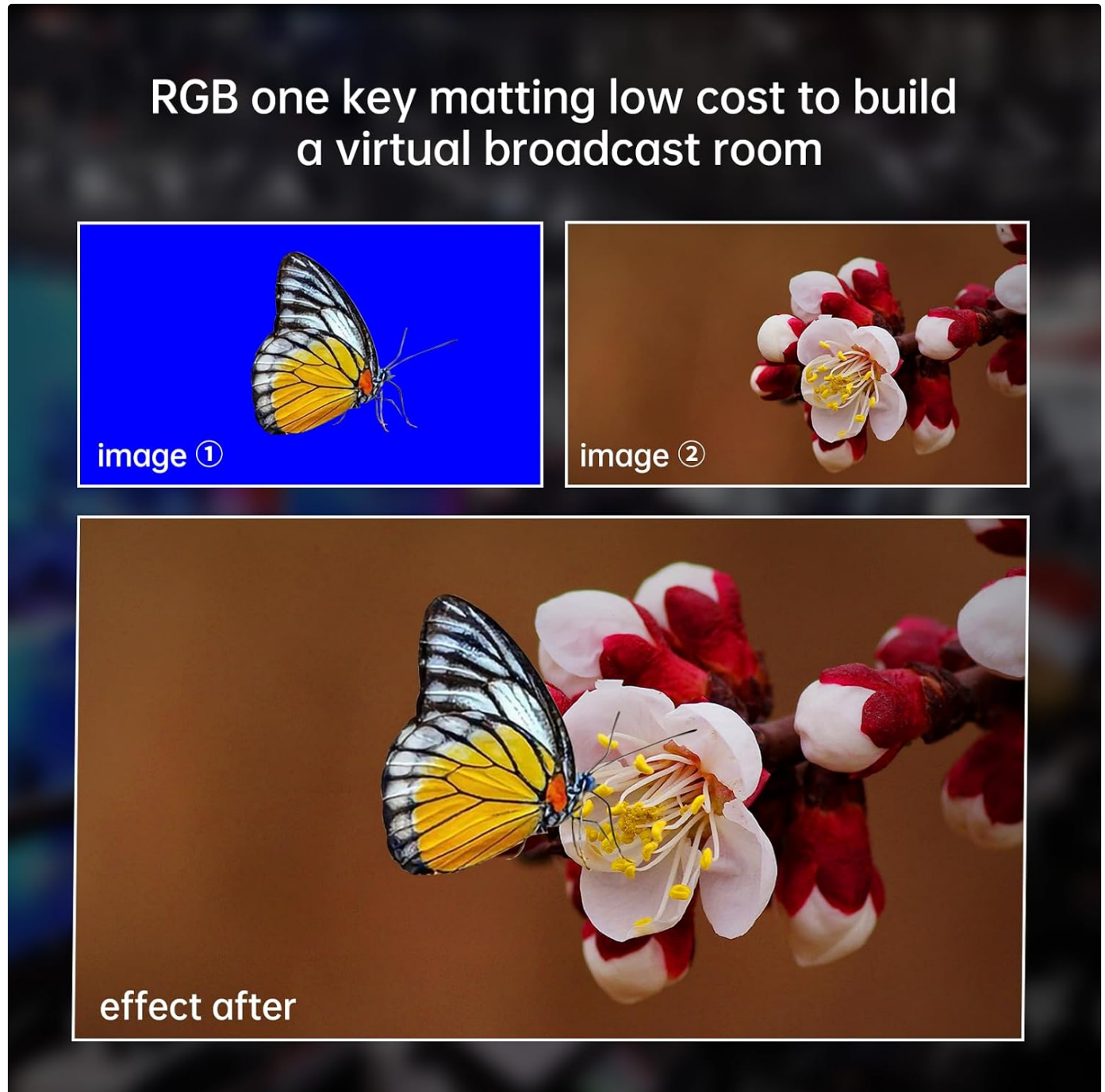


Image 6.2: RGB One-Key Matting. This image demonstrates the chroma key effect, showing an original image with a blue background, a background image, and the final composite image after the blue background has been removed and replaced.

1. **Enable Matting:** Press the "ON" button in the MATTING section.
2. **Select Key Color:** Press "R" (Red), "G" (Green), or "B" (Blue) to select the color you want to remove from your foreground source.
3. **Adjust Cut:** Use the "CUT" button or associated controls to fine-tune the keying effect.
4. **Auto Key:** The "AUTO" button may provide an automatic keying adjustment.

6.6 Recording and Streaming via Type-C

The Type-C video capture interface allows direct recording or streaming to a computer.

1. **Connect:** Connect the Type-C port on the switcher to your computer using a USB Type-C cable.
2. **Software Recognition:** Your computer should recognize the switcher as a USB video device (webcam).
3. **Use with Software:** Open your preferred streaming or recording software (e.g., OBS Studio, vMix, VLC, Potplayer) and select the MT-VIKI switcher as your video input source. You can then record your program output or stream it to platforms like YouTube or Facebook Live.

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Video 6.2: How to Use Video Mixer Switcher. This video demonstrates practical usage scenarios and step-by-step instructions for operating the video mixer switcher, including switching inputs, applying effects, and managing audio.

7. MAINTENANCE

- **Cleaning:** Disconnect the power adapter before cleaning. Use a soft, dry, lint-free cloth to wipe the surface of the device. Do not use abrasive cleaners, solvents, or strong chemicals.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and debris to maintain proper airflow and prevent overheating.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power adapter not connected or faulty.	Ensure power adapter is securely connected to the device and a working power outlet. Test with another outlet if necessary.
No video output	HDMI cables loose or faulty; incorrect input selected; display settings issue.	Check all HDMI cable connections. Ensure the correct input is selected on the switcher and the monitor. Verify monitor input settings. Try different HDMI cables.
No audio output	Audio levels too low; audio source disabled; faulty audio cables.	Check audio level settings on the switcher for all active sources. Ensure MIC/AUDIO inputs are "ON". Verify audio cable connections.
PIP not working	PIP function not activated; incorrect source selection.	Ensure the "PIP" button is pressed. Verify that both main and PIP sources are correctly selected.

Problem	Possible Cause	Solution
Chroma Key not effective	Incorrect key color selected; lighting issues; "CUT" settings.	Ensure the correct RGB color is selected for your background. Optimize lighting for an even background. Adjust the "CUT" settings for better keying.
Computer not detecting device via Type-C	Faulty Type-C cable; USB port issue; driver conflict.	Try a different Type-C cable and a different USB port on your computer. Restart your computer. Check device manager for any driver issues.

9. SPECIFICATIONS

Feature	Detail
Model Number	MT-L4UHD-DE
Input Ports	4 x HDMI, 2 x 3.5mm Microphone, 1 x 3.5mm Stereo Analog Audio
Output Ports	1 x HDMI PGM, 1 x HDMI PVW (Multi-View), 1 x 3.5mm Stereo Analog Audio, 1 x USB Type-C (Video Capture)
Video Resolution	Up to 1080P@60Hz
Audio Mixer	Fairlight audio mixer for all HDMI and microphone inputs
Transition Effects	WIPE (4 modes), MIX, DIP with adjustable speed
Special Features	PIP (adjustable position, size, color), Still/FTB, RGB Background Cutout (Chroma Key)
Control Interface	Network (RJ45) for software control and updates
Power Supply	DC 12V
Color	Black

10. WARRANTY INFORMATION

The MT-VIKI HDMI Live Stream Switcher (Model: MT-L4UHD-DE) comes with a **2-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation. Please retain your proof of purchase for warranty claims. For service or support, refer to the "Customer Support" section.

11. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your MT-VIKI HDMI Live Stream Switcher that are not covered in this manual, please contact MT-VIKI customer support. You can typically find support contact information on the official MT-VIKI website or through your retailer.

When contacting support, please have your product model number (MT-L4UHD-DE) and purchase details ready.

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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