

## FoMaKo M1

# FoMaKo M1 4K HDMI Video Mixer Switcher Instruction Manual

Model: M1

## 1. PRODUCT OVERVIEW

The FoMaKo M1 is a versatile 5-channel live streaming video mixer switcher designed for professional video production. It supports multiple video inputs, including 4K HDMI, and offers various features for live switching, recording, and streaming.

Key features include:

- 6 video source inputs (2x 4K HDMI, 2x 1080P HDMI, 2x USB, 1x webcam, NDI HX support).
- 3 video outputs (2x HDMI, 1x UVC Streaming).
- Simultaneous recording to USB and SD cards.
- Professional audio mixing with 2 mic/line inputs and 1 line output.
- Multi-streaming capabilities to two platforms simultaneously via IP, and USB-A 3.1 plug-and-play streaming.
- Rich effects and transitions including Luma key, Chroma key, Logo insertion, PIP, and DSK.
- Advanced USB 3.1 connectivity for high-speed live streaming and USB 2.0/SD card for PGM recording and firmware updates.
- Built-in web server for remote control via computers or mobile devices.
- Intelligent PTZ camera control and preset functions.
- Support for both portrait and landscape video modes.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- FoMaKo M1 Video Mixer Switcher Unit
- Power Supply
- USB 3.1 Cable
- Instruction Manual



Before operation, ensure all connections are secure.

1. Connect the provided power supply to the DC 12V IN port on the rear panel of the M1 switcher.
2. Connect your video sources (cameras, laptops, etc.) to the HDMI IN ports. The M1 supports 2x 4K HDMI inputs and 2x 1080P HDMI inputs.
3. For UVC streaming, connect a USB 3.1 cable from the UVC AUX port to your computer.
4. Connect a monitor to the HDMI PGM Output for program output or to the HDMI AUX Output for auxiliary display.
5. Insert an SD card into the SD card slot for video storage and recording.
6. Connect microphones or other audio devices to the MIC/LINE IN ports.
7. For network control and IP streaming, connect an Ethernet cable to the LAN port.

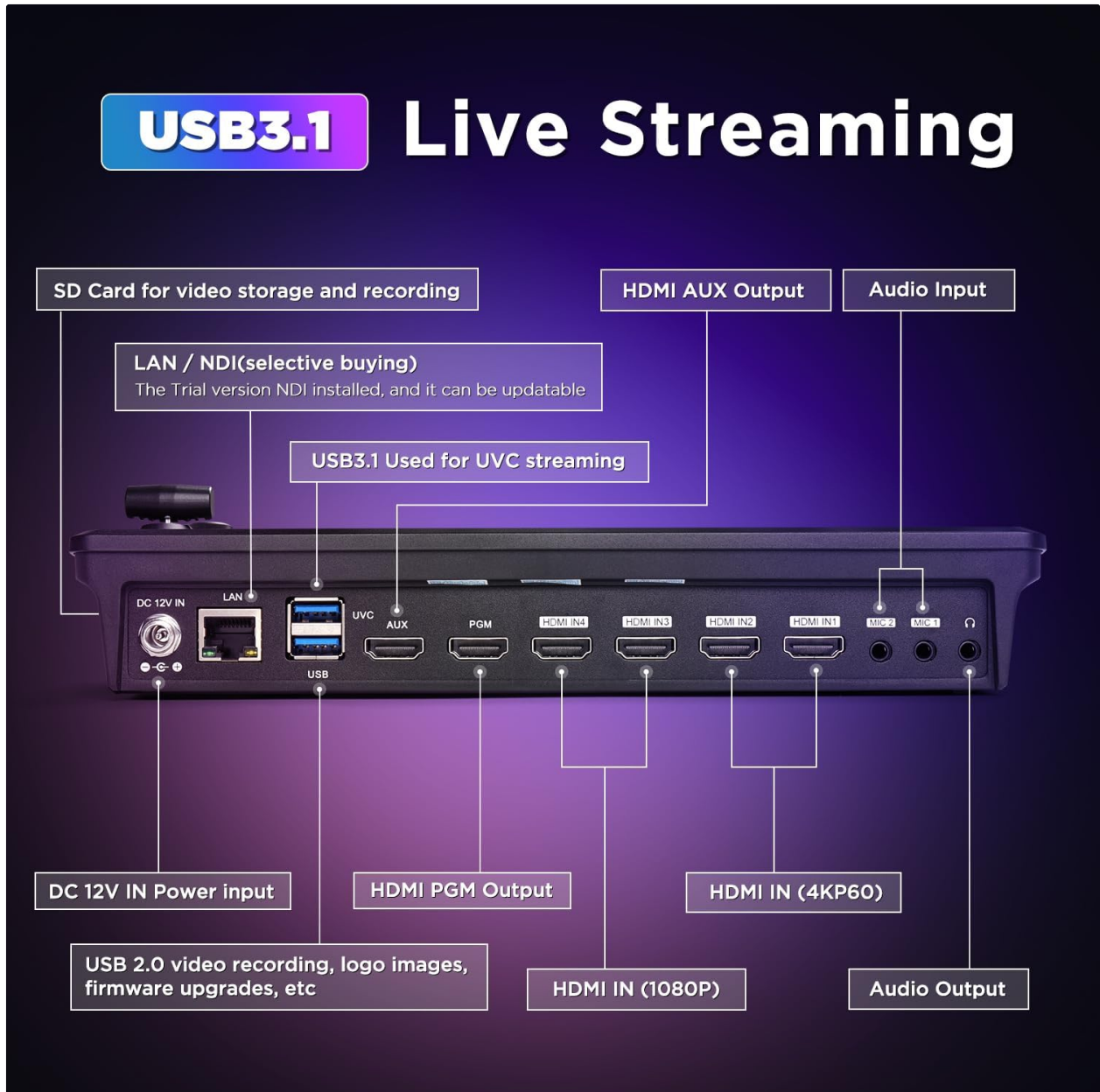


Image: FoMaKo M1 Rear Panel Connections. This diagram illustrates the various input and output ports on the back of the M1 switcher, including DC 12V IN, LAN, USB, UVC AUX, HDMI PGM Output, HDMI AUX Output, HDMI IN (4K60), HDMI IN (1080P), Audio Input, and Audio Output.

# Multi-Platform Compatibility

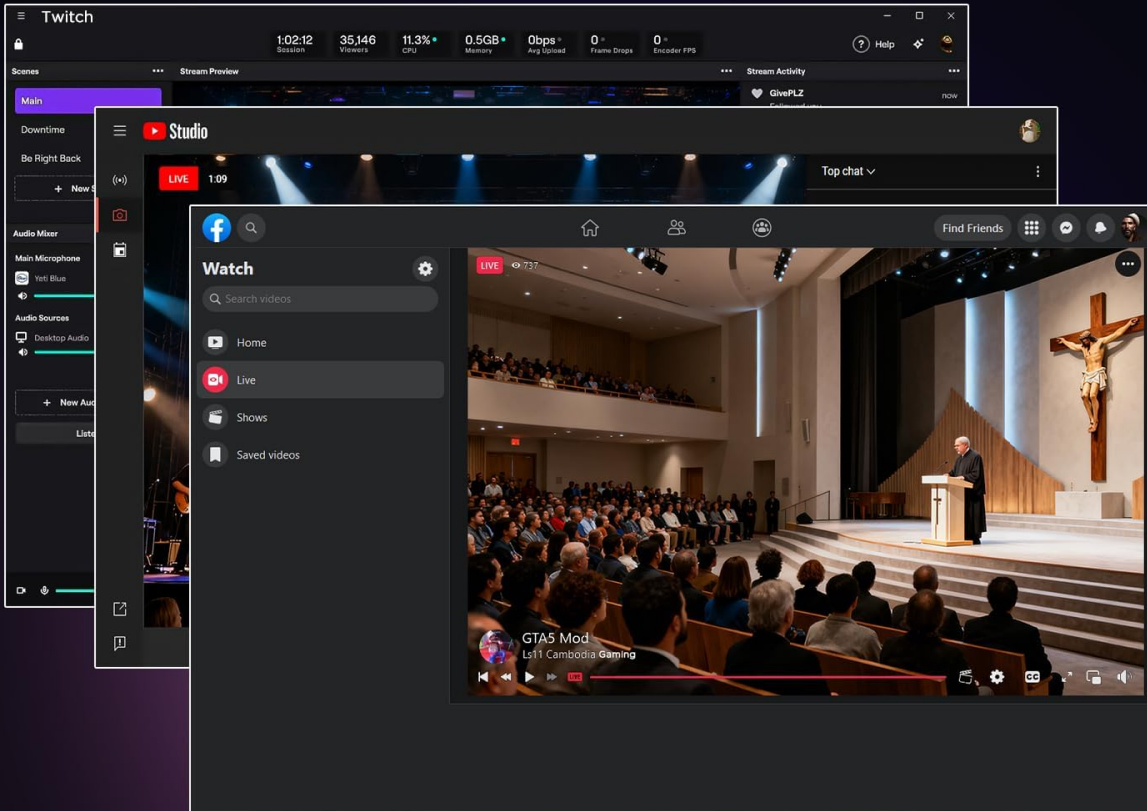


Image: FoMaKo M1 with Multiple HDMI Connections. This image shows the M1 switcher with various HDMI cables connected, demonstrating its multi-input capability for 4K and 1080P sources, and dual HDMI outputs for program and multi-view.

## 4K HDMI Multi-Interfaces Video Switcher



Image: FoMaKo M1 Multi-Interfaces Diagram. This detailed diagram highlights the various input and output interfaces of the M1 switcher, including HDMI, USB, LAN, and audio ports, with labels indicating their functions.



Image: FoMaKo M1 Connection Diagram. This diagram illustrates a complete setup for the M1 switcher, showing connections to cameras, computers, microphones, monitors, routers, and a PoE switch for a comprehensive live streaming workflow.

## 4. OPERATING INSTRUCTIONS

### 4.1 Basic Switching and Transitions

The M1 features an intuitive control panel for live switching.

- Use the numbered buttons (1-4) to select input sources for preview and program.
- The T-bar fader allows for manual control of transitions between sources, providing precise speed and effect control.
- Buttons for "CUT" and "AUTO" enable instant cuts or automatic transitions.
- The switcher supports over 30 transition effects, including Mix, Dip, and Wipe.

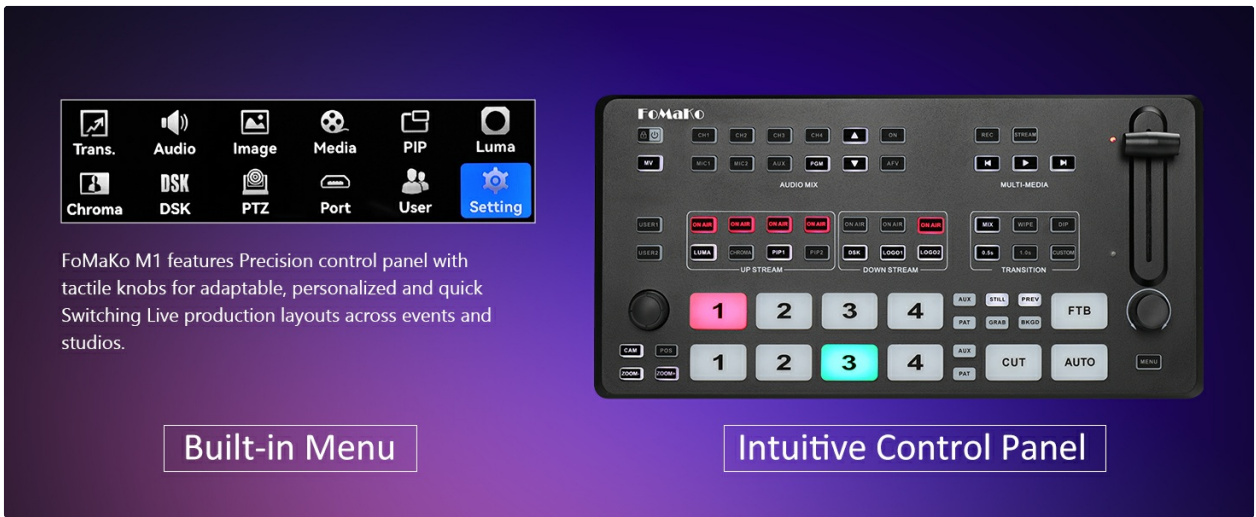


Image: FoMaKo M1 Intuitive Control Panel. This image highlights the control panel of the M1 switcher, showing the numbered input selection buttons, the T-bar fader for transitions, and other control buttons for various functions.



Image: FoMaKo M1 Rich Effects and Transitions. This image showcases the various effects available on the M1, including Chroma Key, Picture-in-Picture (PIP), Logo insertion, 8-layer overlay, remote control options, horizontal/vertical screen modes, and a selection of 30 transition effects.

## 4.2 Audio Mixing

The M1 features a Smart Audio Trinity system for comprehensive audio control.

- Independent channel control for volume, mix, and delay for 4 HDMI and 2 mic inputs.
- AFV (Audio-Follow-Video) mode for automatic audio switching.
- Audio delay adjustment (0-1s) for perfect synchronization.
- Smart noise reduction (ALC) for clear microphone output.

## 4.3 Recording and Playback

The M1 supports simultaneous recording to both USB and SD cards.

- Record program output (PGM) to a USB drive or SD card.
- Supported recording formats include H.264 encoding.
- Supported file system formats for storage devices: FAT32, NTFS, exFAT.
- Video playback from SD/USB will be routed to the AUX output.



Image: FoMaKo M1 Record & Media Playback. This image shows the M1 switcher with a USB disk and an SD card inserted, illustrating its capability for recording and playback of media.



Image: FoMaKo M1 Video Recording and Playback. This graphic details the video recording features, including SD & USB dual recording, H.264 encoding, and supported formats (FAT32, NTFS, exFAT), and video playback via AUX output.

#### 4.4 Live Streaming

The M1 supports multiple streaming methods to various platforms.

- IP Streaming: Stream to two platforms simultaneously.
- USB-A 3.1 Plug and Play Streaming: Direct connection to a computer for UVC streaming.
- Compatible with mainstream platforms such as YouTube Live, Facebook, and TikTok LiveStreaming.

# 4K + 1080P HDMI IN

# 2 HDMI OUT

PGM+Multi-View simultaneously



Image: FoMaKo M1 Multi-Platform Compatibility. This image shows the M1 switcher's compatibility with various streaming platforms like Twitch, YouTube, and Ecamm, displaying a live stream interface.

Your browser does not support the video tag.

Video: FoMaKo Video Switcher: USB Streaming (Plug and Play) M-Series. This video demonstrates the ease of USB streaming with the FoMaKo M-Series switcher, showing a live feed from a church service being streamed to a computer.

## 4.5 Advanced Effects and Graphic Overlays

Enhance your live production with various visual effects:

- **Luma Key** and **Chroma Key**: For green screen effects and background removal.
- **Logo Insertion**: Add custom logos to your stream.
- **PIP (Picture-in-Picture)** and **DSK (Downstream Key)**: Create multi-layered video compositions.
- Supports up to 8 layers of graphics overlay.

Your browser does not support the video tag.

Video: PIP + Meeting Mode Operation (All M-Series Supported). This video demonstrates the Picture-in-Picture (PIP) and meeting mode functionalities of the M-Series switchers, showing how to adjust local position and zoom within a video feed.

Your browser does not support the video tag.

Video: FoMaKo M1 4K HDMI Video Mixer Switcher, 5-Channel. This video provides a demonstration of the M1 switcher's capabilities, including double channel chroma keying and PTZ camera control with speed adjustment.

## 4.6 PTZ Camera Control

The M1 can control up to 4 PTZ cameras simultaneously.

- Supports VISCA IP control.
- One-touch preset recall: Activate cameras and instantly call saved positions (1-7) by pressing ON AIR buttons.

## 4.7 Remote Control

Control the M1 switcher remotely via its built-in web server.

- Access the device control interface through a web browser on a computer or mobile phone.
- Monitor video input, audio status, recording, and streaming information in real-time.
- Scan a QR code to access the control interface.

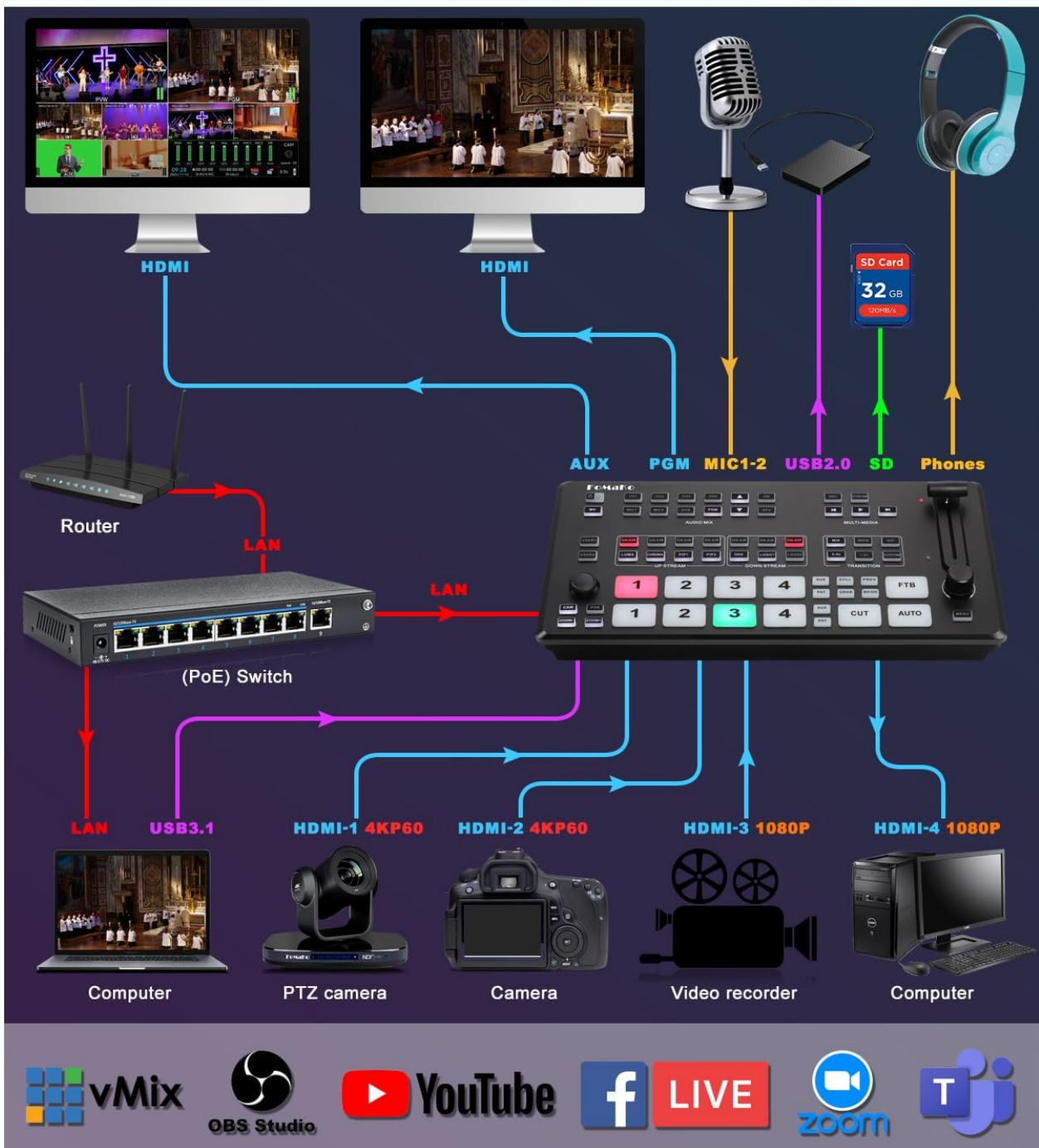


Image: FoMaKo M1 Remote Control. This image displays the remote control capabilities of the M1 switcher, showing its interface accessible via computer, tablet, and smartphone.

## 4.8 Portrait and Landscape Modes

The M1 supports flexible switching between landscape and portrait modes to adapt to different live streaming needs. Note that PTZ cameras must also support vertical livestreaming mode for this feature to function correctly.

# LANDSCAPE & PORTRAIT MODE

Users can choose **vertical** or **horizontal** Screen mode freely according to different needs.



Tip:(PTZ Cameras need to support vertical livestreaming mode)



Image: FoMaKo M1 Horizontal & Vertical Screen Mode. This graphic illustrates the M1's ability to switch between landscape and portrait video orientations, showing examples of multi-view displays in both modes.

## 5. MAINTENANCE

### 5.1 Firmware Updates

Firmware updates can be performed via the USB 2.0 port. Refer to the official FoMaKo website or support documentation for the latest firmware and update instructions.

### 5.2 Cooling System

The M1 features a built-in cooling fan system. The fan speed adjusts automatically based on the switcher's temperature to ensure optimal performance and longevity during long hours of operation.



Image: FoMaKo M1 Built-in Cooling Fan System. This image highlights the integrated cooling fan system of the M1 switcher, designed to regulate temperature for extended operation.

## 6. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, contact customer support.

- **No Video Output:**
  - Ensure all HDMI cables are securely connected to both the M1 switcher and the display/source devices.

- Verify that the input sources are active and sending a signal.
  - Check the selected program output on the M1.
- **No Audio Output:**
    - Confirm audio input levels are correctly set on the M1.
    - Check audio connections from microphones or other audio sources.
    - Ensure the output device (speakers, headphones) is properly connected and powered.
- **Difficulty with Internet Connection for Streaming/Remote Control:**
    - Verify the Ethernet cable is securely connected to the LAN port on the M1 and to a working router or network switch.
    - Check network settings on the M1 (if configurable) and ensure it has a valid IP address.
    - Consult your network administrator or internet service provider if network issues persist.
- **Recording Issues:**
    - Ensure the USB drive or SD card is properly inserted and has sufficient free space.
    - Verify that the storage device is formatted to a supported file system (FAT32, NTFS, exFAT).
    - Check recording settings on the M1.

## 7. SPECIFICATIONS

Feature	Detail
Brand	FoMaKo
Model Number	M1
Color	Glossy Black
Connector Type	HDMI, USB Type-C
Compatible Devices	Camera, Laptop, Monitor
Number of Ports	7
Item Dimensions (D x W x H)	7"D x 14"W x 4"H
Item Weight	1 Kilogram
UPC	735530570630
GTIN	735530570630

## 8. WARRANTY AND SUPPORT

FoMaKo provides comprehensive support for the M1 Video Mixer Switcher:

- **Warranty:** 1-Year manufacturer warranty with free replacement for quality defects (excludes misuse, accident, water damage, or normal wear). An optional 3-Year trade-in program is available for upgraded models.
- **Return Policy:** 30-Day no-hassle return and refund.
- **Technical Support:** Lifetime technical support with 24-hour response. Free setup guidance and remote

assistance are available with your order ID.



Image: FoMaKo Customer Support. This image depicts a customer support representative, symbolizing the available technical assistance.



Image: FoMaKo Warranty and Support Information. This graphic outlines the 3-year limited warranty, 30-day money-back guarantee, and lifetime technical support offered by FoMaKo.