

FoMaKo M3

FoMaKo M3 4K HDMI Video Mixer Switcher Instruction Manual

Model: M3

1. INTRODUCTION

The FoMaKo M3 is a versatile 5-channel 4K HDMI video mixer switcher designed for professional live streaming and video production. It features a 5.5-inch Full HD LCD screen for direct multi-screen signal monitoring and flexible menu operations. This device supports 4K 60FPS input and 1080p 60FPS output, offering extensive compatibility with popular streaming platforms and software.

Your browser does not support the video tag.

Video: An overview of the FoMaKo M3 4K HDMI Video Mixer Switcher, highlighting its 5.5-inch FHD LCD screen and key features.

2. PRODUCT FEATURES

- **Integrated 5.5-inch FHD LCD Screen:** Provides real-time monitoring of multi-screen signals and facilitates menu navigation.
- **Multi-Camera Live Production:** Equipped with 4 HDMI inputs, 1 USB input, 1 HDMI PGM output, and 1 HDMI AUX output. Supports USB 3.1 lossless output up to YUV2 1080P60.
- **Extensive Software Compatibility:** Seamlessly integrates with streaming platforms and software such as Facebook, YouTube, OBS, and vMix for simultaneous broadcasting.
- **Intuitive Control Panel:** Features an ergonomic design with a T-Bar and joystick for precise control over switching and live productions.
- **Recording and Playback:** Supports dual recording to SD card and U Flash drive. Utilizes H.264 encoding for simultaneous recording and streaming at separate bitrates.
- **Advanced Audio Processing:** Includes 4 HDMI digital audio inputs and 2 independent 3.5mm microphone inputs. Each audio channel offers independent volume, switch, mixing, and delay controls. Supports Audio Follow Video (AFV) mode and has a built-in headphone output for monitoring.

- **Live Streaming Destinations:** Supports simultaneous streaming to up to two platforms via Ethernet RJ45 network streaming and one USB Type-C for UVC streaming.
- **Built-in Fan Temperature Adjustment:** Allows automatic or manual control of fan speed based on temperature to prevent overheating.
- **NDI Upgradeable:** The device is NDI upgradeable upon request.

3. SETUP GUIDE

Follow these steps to set up your FoMaKo M3 Video Mixer Switcher:

Your browser does not support the video tag.

Video: An unboxing video of the FoMaKo M3 All-in-one 4K Video Production Switcher, showing included components.

1. **Unboxing and Inspection:** Carefully remove all components from the packaging. Verify that all accessories, including the power supply, USB 3.1 cable, and instruction manual, are present.
2. **Power Connection:** Connect the DC 12V power adapter to the "DC 12V IN" port on the rear panel of the switcher. Plug the adapter into a suitable power outlet.
3. **Input Connections:** Connect your HDMI video sources (cameras, laptops, etc.) to the HDMI IN1, IN2, IN3, and IN4 ports. For USB video sources, use the USB input port.
4. **Output Connections:** Connect your program monitor to the HDMI PGM output and an auxiliary monitor to the HDMI AUX output. For streaming to a computer, connect the USB Type-C port to your computer.
5. **Audio Connections:** Connect microphones to the 3.5mm MIC IN1 and MIC IN2 ports. Use the Audio Output port for external audio monitoring.
6. **Network Connection (Optional):** For NDI or network streaming, connect an Ethernet cable to the LAN (NDI) port and to your network router or switch.
7. **Storage Devices (Optional):** Insert an SD card into the SD card slot for video storage and recording. Connect a U Flash drive to the USB port for additional recording options.
8. **Power On:** Press the power button to turn on the device. The integrated 5.5-inch LCD screen will display the multi-view interface.

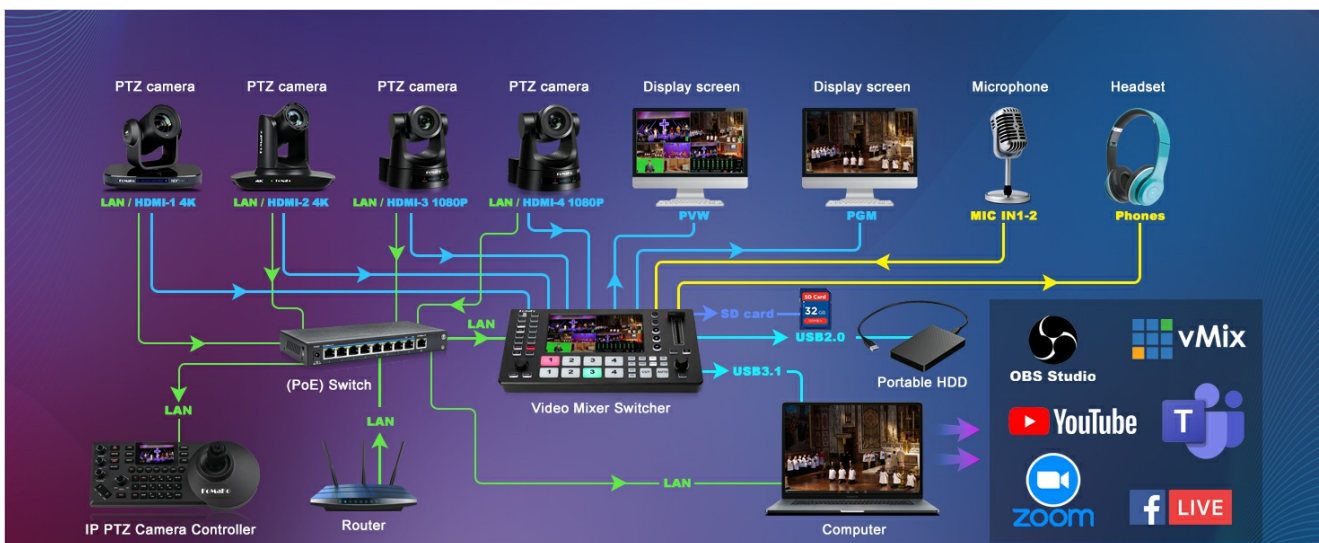
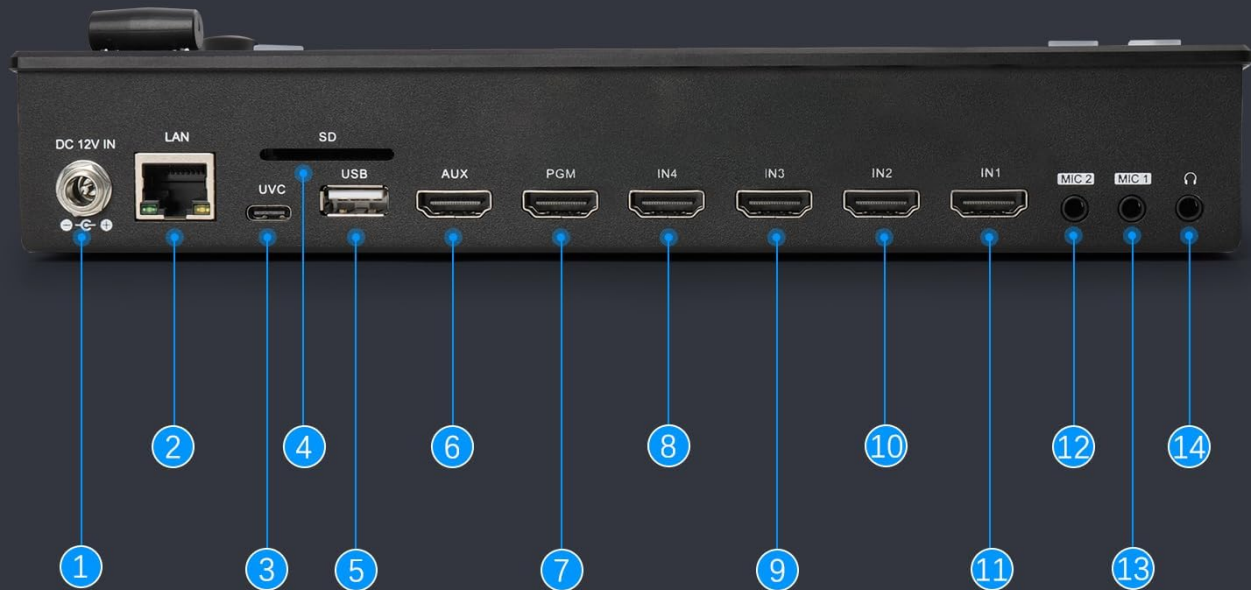


Image: A detailed connection diagram for the FoMaKo M3 Video Mixer Switcher, illustrating how to connect PTZ cameras, display screens, microphones, and streaming devices.



- | | | |
|---|-----------------------|------------------|
| ① DC 12V IN Power input | ⑥ HDMI AUX x 1 Output | ⑪ HDMI IN1 Input |
| ② LAN/(NDI) | ⑦ HDMI PGM x 2 Output | ⑫ Audio Input 1 |
| ③ Used for UVC streaming | ⑧ HDMI IN4 Input | ⑬ Audio Input 2 |
| ④ SD Card for video storage and recording | ⑨ HDMI IN3 Input | ⑭ Audio Output |
| ⑤ USB Recording | ⑩ HDMI IN2 Input | |

Image: Contents of the FoMaKo M3 package, including the switcher unit, power supply, instruction manual, and USB 3.1 cable.

4. OPERATING INSTRUCTIONS

4.1 Basic Switching

The FoMaKo M3 allows for seamless switching between multiple video sources. Use the numbered buttons (1-4) to select your preview and program sources. The T-Bar or CUT/AUTO buttons can be used to transition between sources.

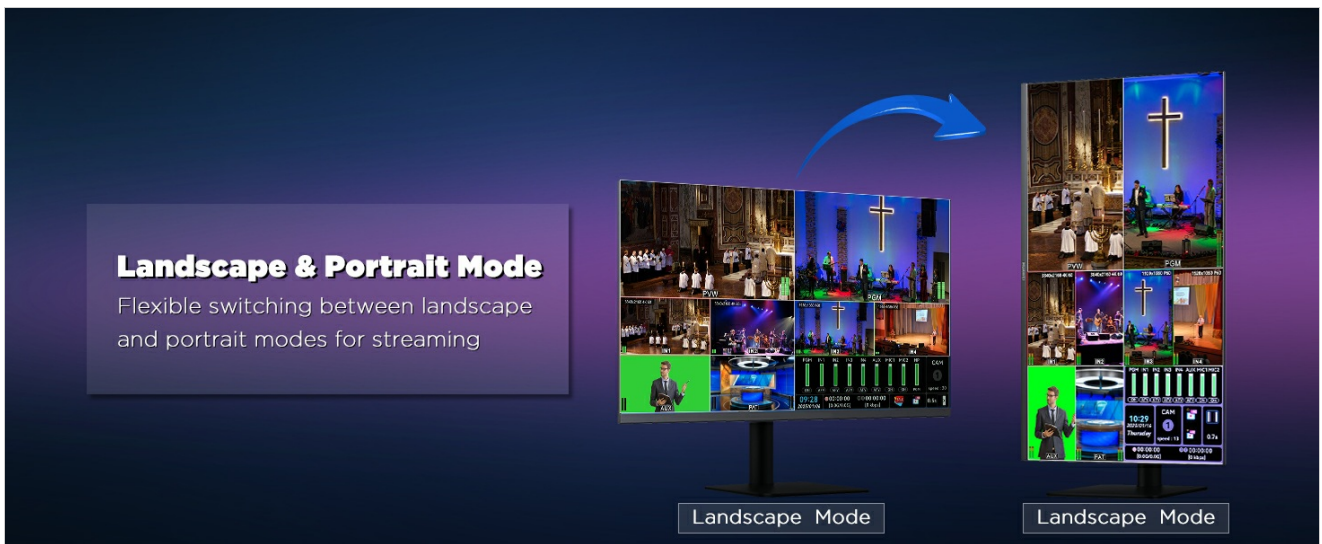


Image: The FoMaKo M3 switcher's screen interface demonstrating video source switching. The image shows multiple input previews and the program output.

Your browser does not support the video tag.

Video: A guide for beginners on using the FoMaKo Switcher (applicable for M3/M4 models), demonstrating basic operations and features.

Your browser does not support the video tag.

Video: Detailed usage and instruction for the panel buttons on the FoMaKo M3/M4 switcher.

4.2 Live Streaming

The M3 supports streaming to multiple platforms simultaneously.

- **RTMP Streaming:** Connect the device to your network via the LAN port. Configure streaming settings through the device's menu to stream to platforms like YouTube, Facebook Live, Twitch, etc.
- **UVC Streaming:** Connect the USB Type-C port to your computer. The switcher will be recognized as a webcam, allowing you to use it with software like OBS, vMix, Zoom, or Microsoft Teams.

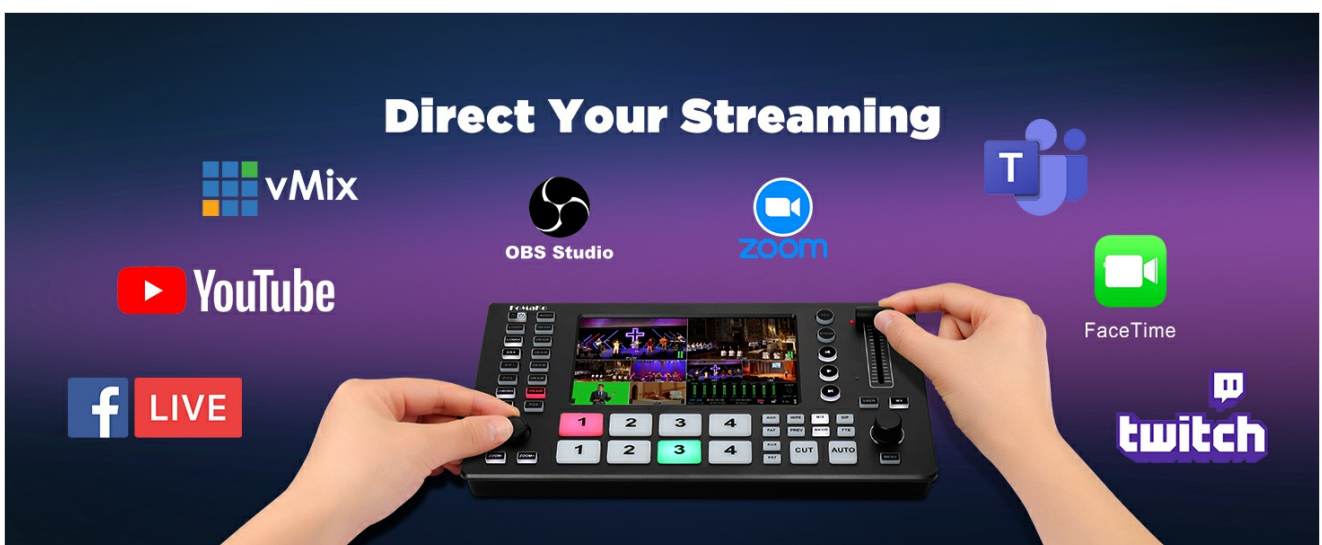


Image: The FoMaKo M3 switcher demonstrating multi-platform streaming capabilities, showing logos of various streaming services and software.

2 RTMP Streaming & UVC Plug and Play Streaming



FaceTime



Google Meet



VooV Meeting

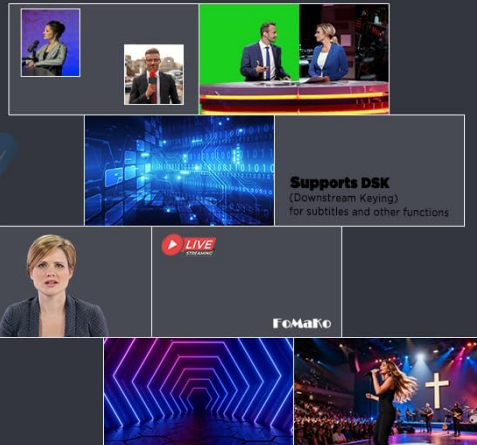
Image: The FoMaKo M3 switcher connected to a laptop and monitor, illustrating its use in a live streaming setup with various applications like Facebook Live, YouTube, Ecamm, Wirecast, FaceTime, Google Meet, and VooV Meeting.

4.3 Recording and Playback

Insert an SD card or U Flash drive into the designated slots. The M3 supports dual recording of your program output. Use the joystick and knob to select and play back recorded videos on the AUX port.

8 LAYERS SUPERIMPOSING FREELY

- 1 PIP1
- 2 PIP2
- 3 Chroma/Luma
- 4 DSK
- 5 LOGO 1
- 6 LOGO 2
- 7 PAT
- 8 AUX



ALL-IN-ONE SOLUTION

PRO GRADE VIDEO PRODUCTION

No external decice/No complex Post-Production

Image: The FoMaKo M3 switcher showing connections for dual interface video recording via USB and SD card.

4.4 Special Effects and Overlays

The M3 offers various special effects and multi-layer overlay capabilities.

- **Transition Effects:** Access over 30 transition effects (Mix, Dip, Wipe) using the dedicated buttons or knob.
- **Multi-Layer Overlay:** Supports up to 8 layers for superimposing elements like Picture-in-Picture (PIP1, PIP2), Chroma/Luma key, Downstream Key (DSK) for subtitles, and custom logos (LOGO1, LOGO2).
- **PTZ Camera Control:** The integrated PTZ control allows for precise motion control and instant preset access for compatible PTZ cameras.

Supports 30 Switching Effects

3 types of effect shortcut keys for switching **WIPE** **MIX** **DIP**



Image: The FoMaKo M3 switcher displaying various special effects and transitions available for video production.

FoMaKo

4K input



4k input for better 1080P FHD Output

Image: The FoMaKo M3 switcher demonstrating multi-layer overlay capabilities, including PIP, Chroma/Luma, DSK, and logo integration.

Your browser does not support the video tag.

Video: Demonstration of importing logos, images, and video sources on the FoMaKo M3/M4 switcher.

Your browser does not support the video tag.

Video: Demonstration of Picture-in-Picture (PIP) and Meeting Mode functions on the FoMaKo Video Switcher.

4.5 Fan Temperature Adjustment

The built-in fan can be adjusted to manage the device's temperature. Use the menu and knob to select from the following modes:

- **Automatic:** Default mode where fan speed adjusts with temperature.
- **Off:** Fan is off, but will automatically enable if the device overheats.
- **On:** Fan runs continuously during operation.

5. MAINTENANCE

To ensure optimal performance and longevity of your FoMaKo M3 Video Mixer Switcher, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or solvents that could damage the finish or internal components.
- **Ventilation:** Ensure that the ventilation openings are clear and unobstructed to allow for proper airflow and prevent overheating. Utilize the built-in fan temperature adjustment feature as needed.
- **Storage:** When not in use for extended periods, store the switcher in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep all cables organized and free from kinks or excessive bending to prevent damage to the cables and ports.
- **Firmware Updates:** Check the official FoMaKo website periodically for any available firmware updates to ensure your device has the latest features and performance enhancements.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your FoMaKo M3 Video Mixer Switcher.

- **No Power:**
 - Ensure the power adapter is securely connected to both the device and a working power outlet.
 - Verify the power button has been pressed.
- **No Video Input Signal:**
 - Check all HDMI and USB input cables for secure connections.
 - Confirm that the video sources (cameras, laptops) are powered on and outputting a signal.
 - Verify the input resolution and frame rate are compatible with the M3 switcher (up to 4K 60FPS input).
- **No Video Output on Monitor:**
 - Ensure the HDMI PGM or AUX output cable is securely connected to your monitor.
 - Check that the monitor is powered on and set to the correct input source.
 - Confirm the output resolution and frame rate are compatible with your monitor (up to 1080p 60FPS).

output).

- **Flickering Screen on Integrated Display:**

- If the integrated 5.5-inch display flickers, try powering the unit off and then on again.
- While the flickering may not affect the program output, if the issue persists, contact customer support for assistance.

- **Streaming Issues:**

- Verify your network connection (for RTMP streaming).
- Ensure streaming settings (RTMP URL, stream key) are correctly configured in the device's menu.
- For UVC streaming, confirm the USB Type-C cable is connected and your computer recognizes the switcher as a video device.

- **Audio Problems:**

- Check microphone connections and ensure they are powered (if required).
- Adjust volume levels for each audio channel in the device's menu.
- Verify headphone output for monitoring is connected and volume is adjusted.

7. SPECIFICATIONS

Feature	Detail
Brand	FoMaKo
Model Number	M3
Color	Matte Black
Input Ports	4x HDMI, 1x USB
Output Ports	1x HDMI PGM, 1x HDMI AUX, 1x USB 3.1 Type-C (UVC)
Audio Inputs	4x HDMI Digital Audio, 2x 3.5mm Microphone
Audio Outputs	1x Headphone Output
Max Input Resolution	4K 60FPS
Max Output Resolution	1080p 60FPS
Display Screen	5.5-inch FHD LCD
Recording	SD Card, U Flash (H.264 encoding)
Dimensions (D x W x H)	7"D x 14"W x 4"H
Weight	1 Kilogram
UPC	735530570654

8. WARRANTY AND SUPPORT

FoMaKo provides comprehensive support for your M3 Video Mixer Switcher:

- **30-Day Return Policy:** Hassle-free returns and refunds within 30 days of purchase.
- **1-Year Manufacturer Warranty:** Covers quality defects with free replacement (excludes misuse, accident, water damage, or normal wear).
- **3-Year Optional Trade-in Program:** Available for upgraded models.
- **Lifetime Technical Support:** Access to technical assistance with a 24-hour response time.
- **Free Setup Guidance and Remote Assistance:** Available with your order ID.

For support, please visit the official FoMaKo website or contact their customer service with your order ID.