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› [CINETREAK Stream Master SDI Video Switcher \(Model: 4HDMI & 4SDI\) - Instruction Manual](#)

CINETREAK 4HDMI & 4SDI

CINETREAK Stream Master SDI Video Switcher

MODEL: 4HDMI & 4SDI - INSTRUCTION MANUAL

1. Safety Information

Please read and understand all safety instructions before operating the CINETREAK Stream Master SDI Video Switcher. Retain this manual for future reference.

- **Power Supply:** Use only the provided AC adapter. Ensure the power source matches the voltage requirements.
- **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.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

2. Package Contents

Verify that all items are present in the package:

- Stream Master SDI Video Switcher
- AC Adapter

3. Product Overview

The CINETREAK Stream Master SDI is a compact and versatile video switcher designed for professional live streaming and video production. It features a 10-inch display, multiple input/output options, and advanced control functionalities.



Figure 3.1: Front view of the CINETREAK Stream Master SDI Video Switcher, highlighting the 10-inch integrated screen and control panel.

3.1. Dimensions and Portability

Portable Size

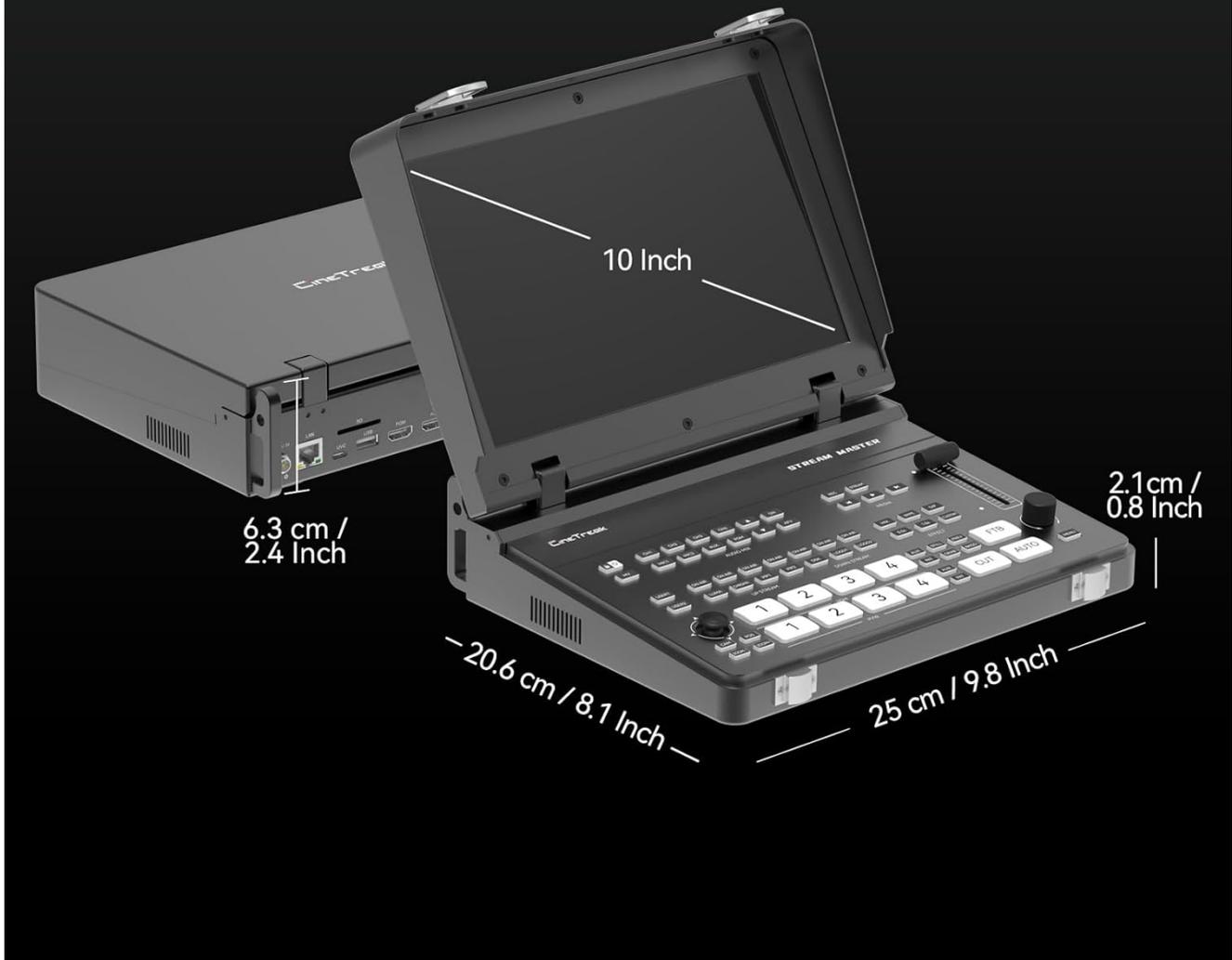


Figure 3.2: The compact dimensions of the Stream Master SDI, measuring 25 cm (9.8 inches) in width, 20.6 cm (8.1 inches) in depth, and 6.3 cm (2.4 inches) in height when closed.

The device is designed for portability, with a compact form factor that includes a built-in 10-inch screen for monitoring. Its dimensions are approximately 25 cm (9.8 inches) x 20.6 cm (8.1 inches) x 6.3 cm (2.4 inches).

3.2. Rear Panel Connections



Figure 3.3: Detailed view of the rear panel ports, including DC 12V IN, LAN, UVC, USB, AUX, PGM, HDMI IN (1-4), SDI IN (1-4), SDI OUT, MIC (1-2), and PHONE.

The rear panel provides comprehensive connectivity:

- **DC 12V IN:** Power input.
- **LAN:** Ethernet port for IP control and NDI (updatable).
- **UVC (USB-C 3.0):** For webcam input, PC connection for recording/streaming, or firmware updates.
- **USB:** For connecting USB drives for media playback or recording.
- **AUX (HDMI 1.3 MV Out):** Auxiliary HDMI output for multi-view monitoring.
- **PGM (HDMI 1.3 / SDI 3G PGM Out):** Program output (Full HD/60).
- **HDMI IN (1-4):** Four HDMI inputs. HDMI 1 & 2 support 4K/60, HDMI 3 & 4 support FHD/60.
- **SDI IN (1-4):** Four SDI 3G inputs.
- **SDI OUT:** SDI program output.
- **MIC 1 & 2:** 3.5mm microphone inputs.
- **PHONE:** 3.5mm audio output for headphone monitoring.
- **SD Card Slot:** For recording and media storage.

3.3. Control Panel Overview

Easy Operation

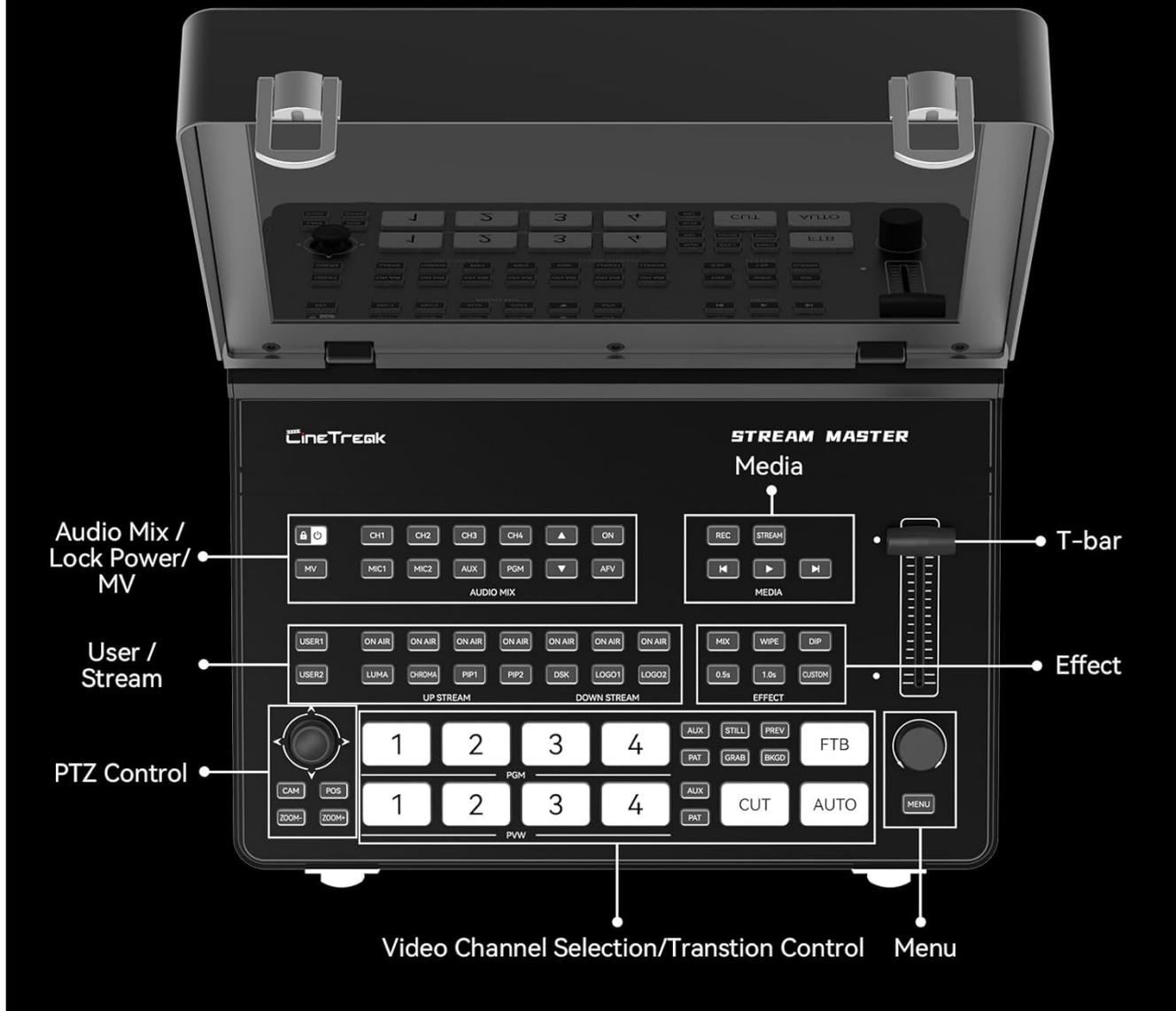


Figure 3.4: The control panel features dedicated buttons for audio mix, macro functions, video channel selection, transition control, PTZ control, and menu navigation.

The intuitive control panel provides direct access to key functions, including input selection, audio mixing, macro controls, transition effects, and PTZ camera management.

4. Setup

Follow these steps to set up your Stream Master SDI Video Switcher:

1. **Power Connection:** Connect the provided AC adapter to the DC 12V IN port on the rear panel and plug it into a power outlet.
2. **Video Inputs:** Connect your HDMI and/or SDI cameras and video sources to the corresponding HDMI IN (1-4) and SDI IN (1-4) ports. Note that you can use a maximum of 4 inputs simultaneously, choosing between HDMI or SDI for each channel.
3. **Output Displays:** Connect your program monitor to the PGM (HDMI/SDI) output and your multi-view monitor to the AUX (HDMI) output.
4. **Audio Inputs:** Connect microphones to the MIC 1 or MIC 2 (3.5mm) inputs as needed. For monitoring,

connect headphones to the PHONE (3.5mm) output.

5. **Network Connection:** For IP control, streaming, or NDI functionality, connect an Ethernet cable from the LAN port to your network router or PC.
6. **USB/SD Storage:** Insert an SD card into the SD card slot for recording. Connect a USB drive to the USB port for media playback or additional recording.

5. Operating Instructions

5.1. Power On/Off

Press the power button located on the device to turn it on or off. The 10-inch screen will display the multi-view interface upon startup.

5.2. Input Selection and Switching

Use the PGM (Program) and PVW (Preview) buttons on the control panel to select your desired video sources. The PGM row selects the live output, while the PVW row selects the next source to be transitioned to.

- **CUT:** Instantly switches the PVW source to PGM.
- **AUTO:** Performs a smooth transition from PVW to PGM using the selected transition effect.
- **T-Bar:** Manually control the speed and direction of transitions between PVW and PGM.

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Video 5.1: This video demonstrates the basic video switching operations, including selecting inputs and using the CUT, AUTO, and T-Bar functions for transitions.

5.3. Transition Effects

The switcher offers over 30 customizable transition effects. Access these effects via the menu and select your preferred mix, dip, or wipe options. Adjust the duration for smooth scene changes.

5.4. Audio Mixing

Control audio levels for each input (MIC 1, MIC 2, HDMI/SDI inputs, AUX) using the dedicated audio mix controls. The Audio Follows Video (AFV) function can be enabled to automatically switch audio with the corresponding video input.

5.5. PTZ Camera Control

The Stream Master SDI supports PTZ (Pan-Tilt-Zoom) camera control for up to 4 cameras via the VISCA over IP protocol. Use the joystick and dedicated buttons to adjust camera positions and recall preset positions.

5.6. Recording and Playback

Record high-bitrate Full HD video files directly to an inserted SD card or connected USB drive. Use the RECORD and PLAY buttons for instant recording and playback functionality.

Record Every Moment



Figure 5.1: The Stream Master SDI can record various events, including sports, church services, virtual studios, and meetings.

5.7. Picture-in-Picture (PIP) and Keying

Utilize two customizable PIP layouts with adjustable cropping and resizing. Chroma and Luma keying features are available for advanced virtual studio effects, allowing you to overlay graphics or remove backgrounds.

5.8. Streaming

The RTMP protocol enables simultaneous live broadcasting to two destinations. The device supports both landscape and 9:16 portrait orientations for versatile streaming to platforms like YouTube, Twitch, and Facebook.

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Video 5.2: This video demonstrates the streaming capabilities of the Stream Master series, including integration with devices like the DJI Pocket 3.

5.9. Wireless IP Control and NDI

Control the mixer remotely from a PC or smartphone via wireless IP. Users can access the host system through the device's IP address for real-time management, including enabling the tally function. NDI functionality is planned for a future update; please check the official website for information.

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6. Maintenance

- **Cleaning:** Regularly clean the exterior of the device with a soft, dry cloth. Avoid abrasive materials or harsh chemicals.
- **Firmware Updates:** Check the official CINETREAK website periodically for firmware updates to ensure optimal performance and access to new features. Follow the provided instructions for updating via USB.
- **Storage:** When not in use, store the switcher in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable disconnected or faulty adapter.	Check power connections. Ensure the AC adapter is securely plugged in.
No video input detected	Incorrect cable connection or incompatible resolution.	Verify HDMI/SDI cable connections. Ensure input resolution is supported (up to 4K/60 for HDMI 1&2, FHD/60 for HDMI 3&4 and SDI).
No audio output	Audio levels too low or incorrect output selected.	Adjust audio mix levels. Check headphone connection. Ensure correct audio source is selected.
Streaming issues	Network connectivity problems or incorrect streaming settings.	Verify LAN connection. Check RTMP/RTMPS settings and internet connection stability.

8. Specifications

- **Model Name:** Stream Master SDI
- **Model Number:** 4HDMI & 4SDI
- **Inputs:** 4 x HDMI (HDMI 1&2: 4K/60, HDMI 3&4: FHD/60), 4 x SDI 3G, 1 x UVC (USB-C 3.0), 2 x 3.5mm Mic/Audio In
- **Outputs:** 1 x HDMI 1.3 MV Out (Auxiliary), 1 x HDMI 1.3 / SDI 3G PGM Out (Program), 1 x 3.5mm Audio Out/Monitor
- **Max Output Resolution:** FHD/60, H.264
- **Latency:** < 3 frames
- **Display:** 10-inch integrated screen
- **Control:** Physical buttons, T-Bar, Joystick, Wireless IP Control, Web Interface
- **Streaming Protocols:** RTMP, RTMPS, SRT
- **Recording:** SD Card, USB Drive
- **Keying:** Chroma Key, Luma Key, DSK
- **Picture-in-Picture (PIP):** 2 customizable layouts
- **PTZ Control:** Up to 4 cameras via VISCA protocol
- **Dimensions:** 15"L x 9"W x 5"H (approx. 269.9mm x 166.4mm x 55.7mm)
- **Item Weight:** 3.92 pounds (approx. 1.78 kg)

- **Manufacturer:** CINETREAK

9. Warranty and Support

CINETREAK products purchased from the official store are eligible for warranty. For specific warranty terms and conditions, please refer to the official CINETREAK website or contact customer support.

For technical support, troubleshooting assistance, or inquiries regarding NDI updates, please visit the CINETREAK official website or contact their customer service team.