CINETREAK 4 HDMI

CINETREAK Stream-1 HDMI Super Source Camera Video Switcher Mixer User Manual

Model: 4 HDMI

1. PRODUCT OVERVIEW

The CINETREAK Stream-1 is a versatile HDMI Super Source Camera Video Switcher Mixer designed for professional live streaming and video production. It integrates multiple video inputs, advanced mixing capabilities, and direct streaming functionalities, making it an ideal solution for creators and broadcasters.

Figure 1: CINETREAK Stream-1 Video Switcher with power adapter and USB cables.

2. KEY FEATURES

- **Rich Connection Ports:** Features 4 HDMI inputs and one AUX channel for media library access. Includes one PGM output and one AUX output, both configurable to output any video channel or a clean PGM source. Equipped with 2 USB ports, a UVC 3.0 port, an RJ45 port, and HDMI 1 and HDMI 2 supporting 4K input for superior visual quality.

- **Down & Pull Stream:** Seamlessly integrate unencrypted video sources into the stream switcher for real-time output. The RTMPS protocol enables simultaneous live broadcasting to two destinations, ensuring efficient and versatile streaming.

- **PTZ Camera Control & Advanced Host System:** Built-in PTZ control for up to 4 cameras via the VISCA protocol, with support for wireless IP control from a PC or smartphone. Access the host system through the device's IP address to remotely manage the mixer in real time, including enabling the tally function for streamlined production control.

- **REC, Playback & Customizable PIP:** Enables recording of high-bitrate Full HD video files with instant playback functionality. Supports two Picture-in-Picture (PIP) layouts, featuring adjustable cropping and resizing options to accommodate diverse creative and production requirements.

- **Professional Studio Features:** Equipped with chroma and luma keying for advanced virtual studio effects,

over 30 transition effects, and seamless switching between landscape and 9:16 portrait orientations. Supports live streaming in both formats for versatile broadcasting.

3. SETUP GUIDE

3.1 Package Contents

Before you begin, ensure all items are present:

- CINETREAK Stream-1 Video Switcher
- Power Adapter
- USB Cables
- User Manual (this document)
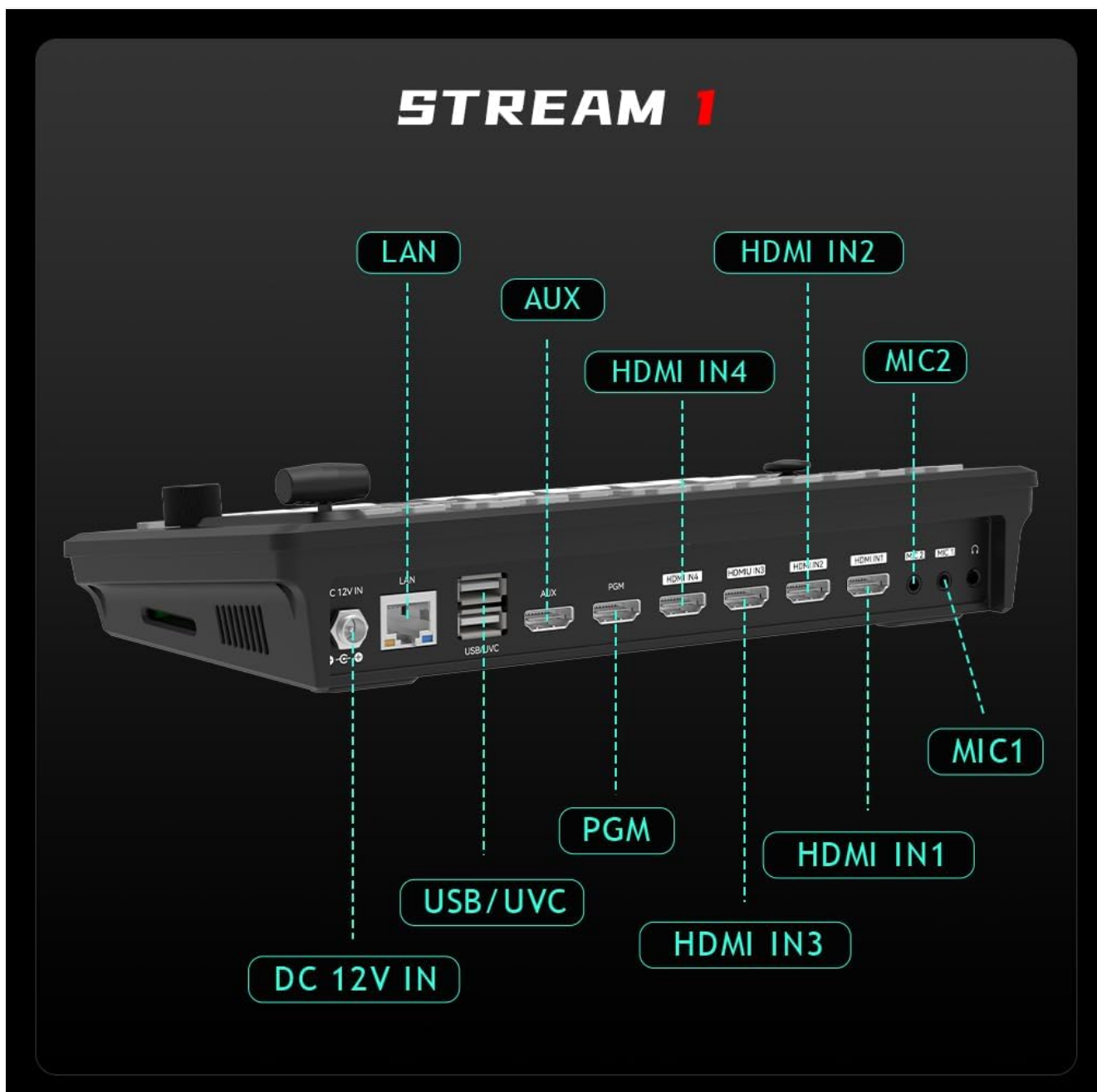
3.2 Connecting the Device

Figure 2: Rear panel connections of the Stream-1, showing DC 12V IN, LAN, USB/UVC, AUX, PGM, HDMI IN (1-4), MIC (1-2), and Headphone ports.

1. **Power Connection:** Connect the provided power adapter to the DC 12V IN port on the rear panel and plug it

into a power outlet.

2. **HDMI Inputs:** Connect your video sources (cameras, computers, gaming consoles) to the HDMI IN 1-4 ports. HDMI 1 and HDMI 2 support 4K resolution.

3. **HDMI Outputs:** Connect your program monitor to the PGM HDMI output and your auxiliary monitor to the AUX HDMI output.

4. **USB Connections:**

   - Connect a webcam to the UVC USB port for direct webcam input.
   - Connect a USB storage device to the USB port for recording or media playback.

5. **Network Connection:** Connect an Ethernet cable to the LAN port for IP control and network streaming.

6. **Audio Inputs:** Connect microphones to the MIC 1 and MIC 2 ports. Connect headphones to the headphone jack for audio monitoring.

4. OPERATING INSTRUCTIONS

4.1 Basic Switching

The Stream-1 features a clear control panel for intuitive operation. The top row of buttons (1-4) represents the Preview (PVW) inputs, and the bottom row (1-4) represents the Program (PGM) outputs. To switch sources:

- Press a button in the **PVW** row to select the next source for preview.
- Press a button in the **PGM** row to immediately switch that source to the live output (Cut transition).
- Use the **AUTO** button for a smooth transition between PVW and PGM, or the **CUT** button for an instant switch.
- Adjust the T-bar fader for manual transitions.

4.2 Audio Mixing

The AUDIO MIX section allows control over audio inputs. Use the dedicated buttons for MIC1, MIC2, AUX, and PGM to enable or disable audio sources. Adjust audio levels using the on-screen menu and rotary knob.

4.3 Media Playback and Management

The Stream-1 supports media playback from connected USB storage devices or internal memory. Access the MEDIA menu to manage and play video files, images, and logos.
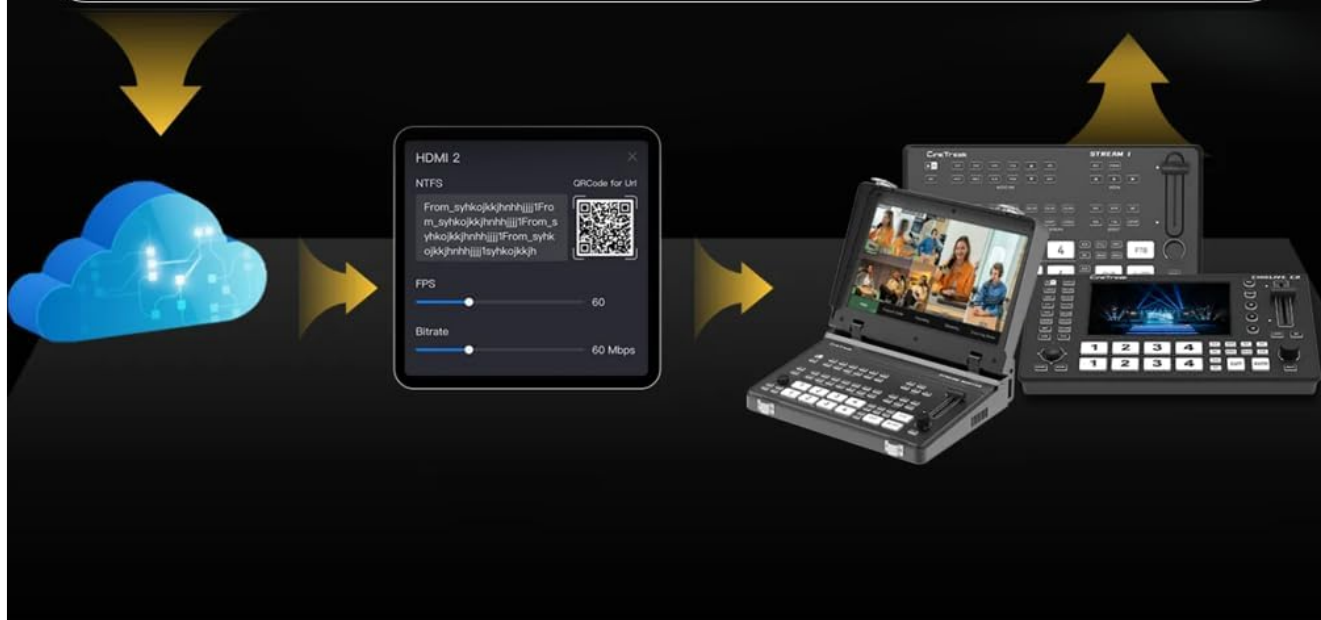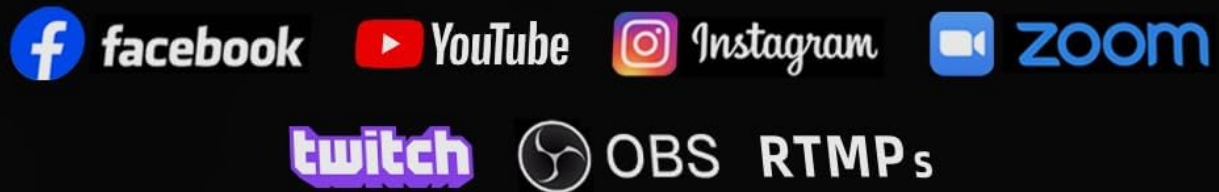
Figure 3: Illustration of the Stream-1's down-stream and up-stream capabilities, including IP control for professional and easy operation.

4.4 Picture-in-Picture (PIP) and Picture-on-Picture (POP)

Create dynamic layouts with PIP and POP functions. The Stream-1 supports two customizable PIP layouts with adjustable cropping and resizing. Access these features via the PIP1 and PIP2 buttons in the UP STREAM section.

Figure 4: Visual examples of Picture-on-Picture (POP) and Picture-in-Picture (PIP) configurations.

4.5 Keying Effects (Chroma & Luma)

Utilize chroma key (green screen) and luma key for advanced virtual studio effects. Select the desired keying type using the CHROMA and LUMA buttons in the UP STREAM section and configure settings via the menu.

Figure 5: Examples of Downstream Key (DSK) functionality, showing chroma keying and graphic overlays.

4.6 Transition Effects

Choose from over 30 transition effects to enhance your production. Use the MIX, WIPE, and DIP buttons in the EFFECT section, and adjust parameters like transition speed (e.g., 0.5s) or select custom effects.

4.7 PTZ Camera Control

Control up to 4 PTZ cameras directly from the Stream-1 using the VISCA protocol. Use the CAM, POS, and ZOOM buttons along with the joystick to pan, tilt, and zoom your cameras. Wireless IP control is also available via PC or smartphone.

4.8 Recording and Playback

Record your live program in Full HD to a connected USB storage device. Use the REC button to start/stop recording. Recorded files can be instantly played back through the device.

4.9 Live Streaming

The Stream-1 supports RTMPS protocol for direct live streaming to platforms like YouTube, Facebook, Twitch, and

OBS. You can stream to two destinations simultaneously. Configure streaming settings via the menu.

Figure 6: The Stream-1 supports simultaneous RTMPS live streaming to two destinations, including popular platforms.

4.10 Landscape and Portrait Livestreaming

The Stream-1 allows seamless switching between traditional landscape (16:9) and vertical (9:16) orientations, catering to various social media platforms and content formats.

Figure 7: Examples of video layouts optimized for Portrait Mode livestreaming.
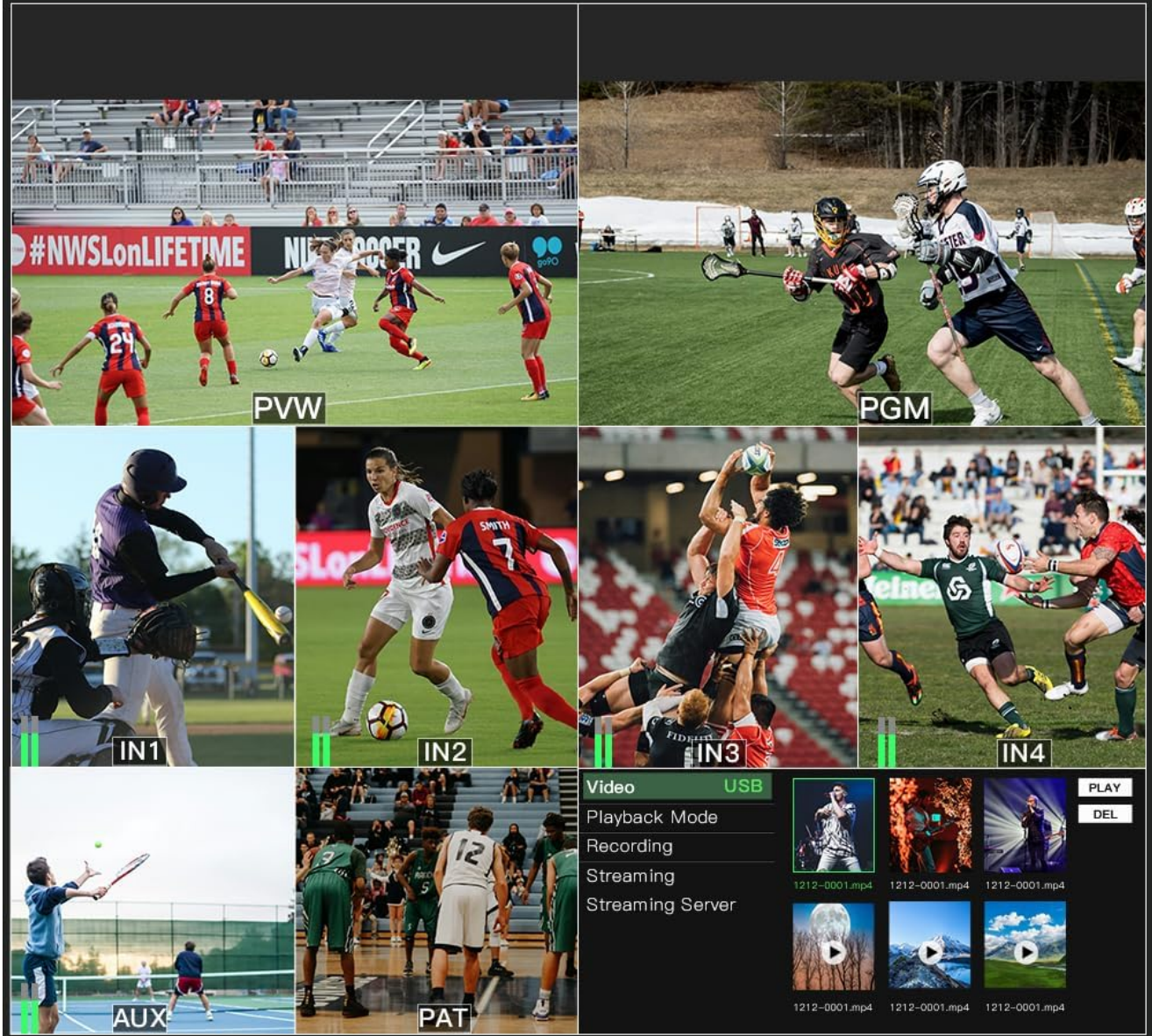
Figure 8: Examples of video layouts optimized for Landscape Mode livestreaming.

4.11 Webcam Input Operation

The Stream-1 can accept a webcam as an input source via its UVC USB port. This video demonstrates connecting a DJI Pocket 3 as a webcam source.

Your browser does not support the video tag.

Video 1: Demonstrates connecting a DJI Pocket 3 camera as a webcam input to the CINETREAK Stream-1, showing the process of plugging in the USB cable, powering on the camera, selecting webcam mode, and viewing the input on the switcher's multiview.

5. MAINTENANCE

To ensure the longevity and optimal performance of your CINETREAK Stream-1, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols directly on the unit.
- **Ventilation:** Ensure proper airflow around the device. Do not block ventilation openings.

- **Firmware Updates:** Periodically check the official CINETREAK website for firmware updates to access new features and improvements. Follow the provided instructions carefully for any update process.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your Stream-1, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
No video signal on output.	Incorrect input selection, loose HDMI cables, incompatible resolution.	Verify the correct input is selected on the Stream-1. Check all HDMI cable connections. Ensure input source resolution is supported (up to 4K on HDMI 1/2). Try restarting both the source device and the Stream-1.
No audio output.	Audio input not enabled, incorrect audio levels, faulty cables.	Check if the audio source (MIC1, MIC2, AUX, PGM) is enabled in the AUDIO MIX section. Adjust audio levels. Verify audio cable connections.
Streaming issues (buffering, disconnection).	Weak internet connection, incorrect streaming settings, server issues.	Ensure a stable and strong internet connection. Double-check RTMPS server URL and stream key. Reduce streaming bitrate if bandwidth is limited. Contact your streaming platform's support if the issue persists.
PTZ camera not responding.	Incorrect protocol, network issues, camera power.	Verify the camera is powered on and connected. Ensure the camera supports VISCA protocol. Check network connection for IP control.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	86 x 30 x 10 inches
Item Weight	2.23 pounds
Model Number	4 HDMI
Color	Black
Connector Type	HDMI
Compatible Devices	Desktop

Feature	Detail
Cable Type	HDMI
HDMI Inputs	4 (HDMI 1 & 2 support 4K)
USB Ports	2 (including 1 UVC 3.0)
Network Port	RJ45 (LAN)
PTZ Control	Up to 4 cameras via VISCA protocol
Streaming Protocol	RTMPS (dual destination support)
Recording	Full HD, high-bitrate to USB storage
Keying	Chroma Key, Luma Key
Transitions	Over 30 effects
Orientation	Landscape (16:9) & Portrait (9:16)

8. WARRANTY AND SUPPORT

CINETREAK products are designed for reliability and performance. This product comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official CINETREAK website.

For technical support, troubleshooting assistance, or any inquiries regarding your Stream-1, please contact CINETREAK customer service. Contact information can typically be found on the official product website or within your purchase documentation.

Please note that only products purchased from the official CINETREAK store or authorized resellers are eligible for warranty service.

Related Documents - 4 HDMI

[CINETREAK CT-PT25K Series PTZ Video Conference Camera User Manual](#)
Comprehensive user manual for the CINETREAK CT-PT25K 3G and 12G series PTZ video conference cameras, covering features, setup, operation, menu system, network connections, and technical specifications.

	[CineTreak Cinelive V1 Video Switcher User Manual](#) Comprehensive user manual for the CineTreak Cinelive V1 Video Switcher, covering setup, operation, features, and technical specifications for professional video production.
	[CINETREAK CT-PT20H User Manual: PTZ Video Conference Camera](#) Comprehensive user manual for the CINETREAK CT-PT20H PTZ video conference camera, covering features, setup, operation, menu settings, and technical specifications. Learn how to connect, configure, and utilize advanced functions like AI tracking and auto framing.
	[AVMATRIX SHARK S8X PLUS: 8-Channel SDI/HDMI Video Switcher User Manual](#) Discover the AVMATRIX SHARK S8X PLUS, a professional 8-channel SDI/HDMI audio/video switcher. This manual details its comprehensive features, including a 17.3-inch FHD display, advanced video effects like chroma key and PIP, PTZ camera control, live streaming, and recording capabilities, designed for professional live production environments.
	[FoMaKo Live Stream Video Mixer Switcher User Manual V2.0](#) Comprehensive user manual for the FoMaKo live stream video mixer switcher, detailing its features, operations, connections, menu functions, and shortcut keys for professional live broadcasting. Covers PTZ control, multi-layer video processing, and network streaming.
	[RGBlink mini-mx SDI User Manual](#) Comprehensive user manual for the RGBlink mini-mx SDI, detailing its features, installation, operation, and specifications for professional video production and streaming.