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RGBlink mini-mx SDI

RGBlink mini-mx SDI Video Mixer Switcher User Manual

Your comprehensive guide to setup, operation, and advanced features.

1. Introduction to the RGBlink mini-mx SDI

The RGBlink mini-mx SDI is an advanced multi-camera video mixer switcher designed for professional live streaming and production environments. It integrates 4x HDMI 2.0 and 4x 3G-SDI inputs, along with NDI and UVC connectivity, offering versatile input options for various cameras and devices. Featuring a 5.5-inch touchscreen, dual XLR inputs with 48V phantom power, and comprehensive PTZ camera control, this device streamlines complex production workflows into a single, intuitive unit.



Figure 1: Overview of the RGBlink mini-mx SDI, highlighting its 4 SDI inputs, 4 HDMI inputs, 2 HDMI outputs, NDI capability, 2 XLR inputs, 5.5-inch touchscreen, and 8-channel audio mixing.

2. Setup Guide

2.1 Package Contents

Before beginning, ensure all items are present in the box:

- RGBlink mini-mx SDI Unit
- PD Power Adapter
- USB-C to USB-C Cable
- Quick Guide

Important: A 40W+ USB-C power adapter is recommended for stable performance. Use the original box adapter for best results.



Figure 2: The RGBlink mini-mx SDI unit and its included accessories.

2.2 Connecting Devices

The mini-mx SDI offers extensive connectivity for various video and audio sources.

- **Video Inputs:** Connect up to four HDMI 2.0 sources and four 3G-SDI sources (professional cameras, DSLRs, camcorders, PTZ cameras).
- **Video Outputs:** Utilize dual HDMI outputs for program and multiview monitoring.
- **USB 3.0 UVC:** Connect directly to streaming platforms like OBS, Zoom, and Teams.
- **Audio Inputs:** Use the dual XLR/TRS combo jacks with 48V phantom power for microphones, or the Line-In and Bluetooth audio inputs.
- **Network:** Connect via LAN for RTMP(S) streaming and NDI|HX2 workflows.



Figure 3: Detailed view of the mini-mx SDI's interface, including streaming USB-C, recording USB-C, PGM HDMI-A, PVW HDMI-A, Input HDMI-A (4x 4K60), Power USB-C, communication RJ45, Audio Output 3.5mm mini-jack, Audio Output 6.35mm TRS Jack, Audio Input 6.35mm TRS Jack, +48VTS Jack (48V Phantom Power), and 3G SDI x 4.

2.3 Firmware Update

It is crucial to update to the latest firmware before use via LAN or USB drive to ensure optimal performance and access to all features.

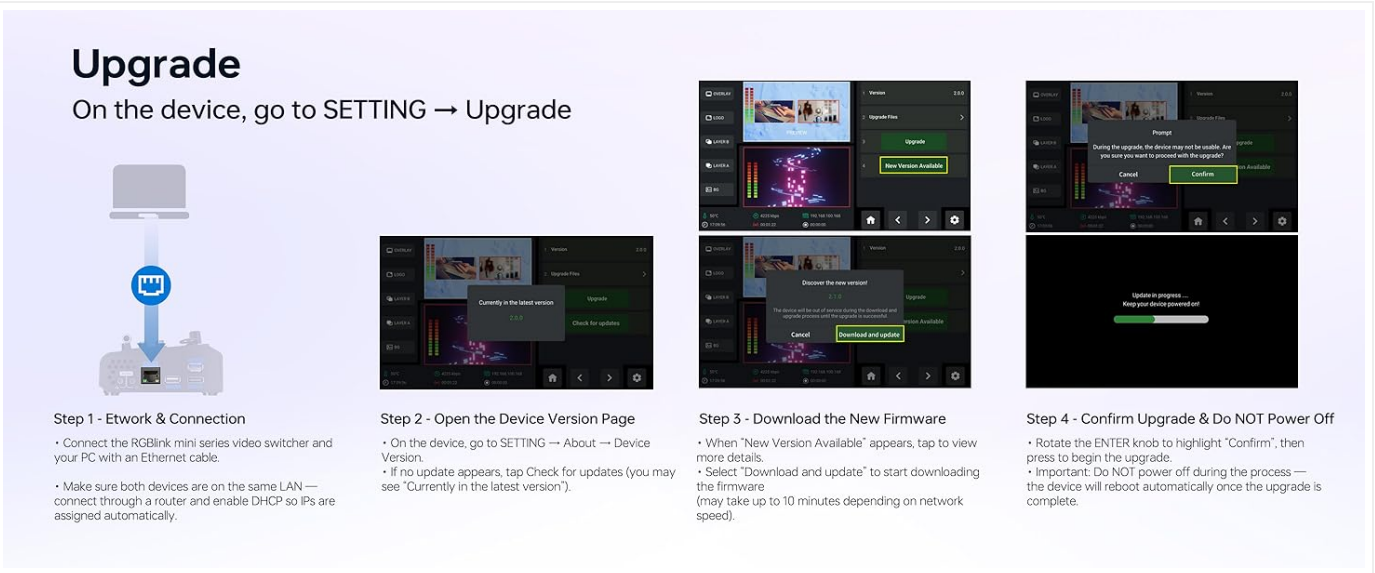


Figure 4: Visual guide for performing a firmware upgrade on the mini-mx SDI unit.

3. Operating Instructions

3.1 Touchscreen Control and Switching

The 5.5-inch TFT touchscreen provides real-time multiview of all inputs and quick access to switching, transitions, effects, and audio settings. Use one-touch switching between up to 16 pre-saved scenes for efficient live production.



Figure 5: The responsive touchscreen interface for smooth interactive operation, including 10 presets and 17 special effects.

3.2 PTZ Camera Control

Control up to 4 PTZ cameras directly from the mini-mx SDI using VISCA or NDI protocol. Adjust pan, tilt, zoom, and focus via the front panel joystick or touchscreen. Save PTZ positions into your 16 scene presets for instant recall.



Figure 6: Built-in PTZ camera control interface on the mini-mx SDI, allowing precise pan, tilt, zoom, and speed adjustments.

How to Use mini-mx SDI with PTZ Control









1. Get mini-mx SDI IP

Connect mini-mx SDI's Lan port to router → check IP setting Interface on mini-mx SDI --> enable DHCP → get IP automatically.
[Turn off DHCP,can reset the IP/Gatwway/Mask]
mini-mx SDI & PTZ must be in the same network segment

2. Match PTZ IP Segment as mini-mx SDI

Connect PTZ to monitor → read its IP.
If mini-mx SDI is 192.168.6.134, set PTZ to 192.168.6.X (X = 2 to 254, except 134; first three numbers must match).
Change PTZ IP via PTZ remote or web page

3. Configure PTZ IP in mini-mx SDI's PTZ interface

Open PTZ Control interface on mini-mx SDI → enter the PTZ IP you set (192.168.6.X).
RGBlink vue PTZ port no is 01259. Obsbot Tail port is 52381. Supports VISCA protocal PTZ only

4. Confirm Gateway & Mask

Gateway defaults to same as mini-mx SDI IP ,like 192.168.6.1
(Do NOT assign PTZ address ending in "1").
Mask must be 255.255.255.0.

* If all devices-mini-mx SDI ,ptz ,computer connect to the same router, IPs will be automatically assigned within the same segment.
* Update to the latest firmware before use as per user manual
* Ensure PC's system requirements: Windows 10 / macOS 11 or later; Recommended PC configuration: CPU-7th Gen Intel Core i5 or later; RAM-8GB, then the USB3.0 webcam of RGBlink mini can avoid issues such as no image or a black screen.

Figure 7: Step-by-step instructions for setting up PTZ camera control with the mini-mx SDI, including IP configuration.

3.3 Audio Mixing

The mini-mx SDI includes an 8-channel audio mixer. Mix embedded HDMI/SDI audio with external mic and music sources. Features like audio follow video (AFV), audio delay adjustment, and one-touch mute ensure professional-grade sound.



Figure 8: The professional 8-channel audio mixing interface, allowing independent management of audio sources.

3.4 Remote Control and Streaming

Operate your production remotely using a browser-based WebApp. Switch inputs, load scenes, trigger overlays, and control audio or PTZ from a laptop, tablet, or smartphone. The device supports RTMP(S) streaming and NDI|HX2 workflow.

Video 1: This video demonstrates the RGBlink mini-mx video mixer in action for live streaming, showcasing its various features and ease of use in a production environment.

Video 2: An overview of the RGBlink mini-mx SDI All-in-One Broadcast Video Mixer Switcher, highlighting its comprehensive capabilities for professional broadcasting.

Video 3: This video illustrates the effortless professional video switching and streaming capabilities of the RGBlink mini-mx SDI, emphasizing its new SDI features.

4. Maintenance

To ensure the longevity and optimal performance of your RGBlink mini-mx SDI, follow these general maintenance guidelines:

- Keep the device in a clean, dry environment, away from dust and moisture.
- Clean the touchscreen and exterior surfaces with a soft, lint-free cloth. Avoid abrasive cleaners.
- Ensure proper ventilation around the unit to prevent overheating.
- Regularly check for and install firmware updates to benefit from new features and bug fixes.
- Disconnect power when not in use for extended periods.

5. Troubleshooting

If you encounter issues with your RGBlink mini-mx SDI, consider the following:

- **No Video Output:** Verify all HDMI/SDI cables are securely connected. Check input source settings on the device and output settings on your monitor.
- **Audio Issues:** Ensure microphones are properly connected and phantom power is enabled if required. Check audio

mixing levels and mute status.

- **Connectivity Problems:** For LAN/NDI issues, ensure the device and connected computers are on the same network segment. Refer to the PTZ control setup guide for network configuration.
- **Performance Issues:** Ensure you are using a 40W+ USB-C power adapter. Update to the latest firmware.
- **General Malfunctions:** A detailed troubleshooting guide is available in PDF format. You can access it here.

For camera compatibility and full setup guidance, please refer to the official user manual. If problems persist, contact customer support.

6. Specifications

Feature	Detail
Model	mini-mx SDI
Video Inputs	4x HDMI 2.0, 4x 3G-SDI
Video Outputs	2x HDMI (Program, Multiview), USB 3.0 UVC
Audio Inputs	2x XLR/TRS Combo (48V Phantom Power), Line-In, Bluetooth
Audio Mixing	8-channel independent management
Display	5.5-inch TFT Touchscreen
Control	Touchscreen, Joystick, WebApp (remote)
PTZ Control	Supports up to 4 PTZ cameras (VISCA, NDI protocol)
Streaming	RTMP(S), NDI|HX2
Power	USB-C (40W+ recommended)
Dimensions	Refer to product images for visual scale
Number of Ports	10

7. Warranty Information

The RGBlink mini-mx SDI comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official RGBlink warranty policy or contact customer support.

8. Support

For further assistance, technical support, or inquiries regarding your RGBlink mini-mx SDI, please contact the RGBlink Official Store or visit their support website. Our support team is ready to assist you with setup, usage, and any issues you may encounter.
Additional resources:

- User Manual (PDF): Download Here
- User Guide (PDF): Download Here

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