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## SPROLINK Neolive N5

# SPROLINK NeoLIVE N5/N5S Video Streaming Switcher User Manual

Model: Neolive N5

## 1. INTRODUCTION

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The SPROLINK NeoLIVE N5/N5S is a versatile 5-input channel video streaming switcher designed for professional live production. It features a 10.1-inch integrated screen, dual 4K HDMI inputs, and supports multi-view (MV) and program (PGM) outputs. This manual provides detailed instructions for setting up, operating, and maintaining your NeoLIVE N5/N5S switcher.



Figure 1.1: SPROLINK NeoLIVE N5/N5S Video Streaming Switcher (Open View)

This image shows the NeoLIVE N5/N5S switcher in its open configuration, revealing the integrated 10.1-inch display and the control panel with various buttons and faders. The screen displays a multi-view layout, including preview (PVW), program (PGM), and four input channels (IN1-IN4).

## 2. KEY FEATURES

- **Rich and Flexible Input Interfaces:** Equipped with 4 x 3G-SDI ports and 4 x HDMI ports, offering a total of 8 selectable inputs. HDMI 1 and 2 support 4K input. Supports NDI input (optional) and multi-functional input ports for direct connection to USB devices for media playback, UVC cameras, and SRT/RTMP streams.
- **Multiple Outputs and Monitoring Functions:** Features dual HDMI outputs and 1 x SDI output, supporting independent PGM and MV outputs. Allows connection of three display terminals simultaneously for multi-view monitoring.
- **Convenient Live Streaming and Recording:** Built-in hardware live streaming engine enables direct streaming to platforms like TikTok and Instagram via Ethernet without a computer. Supports recording live audio and video directly

to a USB drive or external hard disk.

- **Powerful Media Processing:** Integrated media player can play videos from storage devices as input sources. Supports importing JPG and PNG images from USB drives, with lower-third dynamic overlay features for enhanced visual effects.
- **Professional Audio and Video Processing:** Includes a professional audio mixer supporting AFV and MIX audio modes, allowing real-time mixing of HDMI embedded audio and external audio sources. Real-time audio monitoring is available via the headphone jack. Equipped with a virtual chroma key algorithm for news broadcasting and live demonstrations.
- **Precise PTZ Camera Control:** Supports control of up to four PTZ cameras for smooth multi-camera switching via joystick.

## 3. SETUP

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### 3.1 Package Contents

Verify that all items are present in the package:

- SPROLINK NeoLIVE N5/N5S Video Streaming Switcher
- Power Adapter
- USB Cable
- User Manual (this document)

### 3.2 Connecting the Device

Before connecting, ensure the device is powered off.



Figure 3.1: Rear Panel Connections

This image displays the rear panel of the NeoLIVE N5/N5S, highlighting its various connectivity options including DC 12V IN, LAN, SD card slot, USB, AUX, PGM, IN1-IN4 (HDMI), and MIC 1/2 inputs.

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. **Video Inputs:**
  - Connect your video sources (cameras, computers, etc.) to the HDMI (IN1-IN4) and SDI ports. Note that HDMI 1 and 2 support 4K resolution.
  - For multi-functional inputs, connect USB devices or UVC cameras to the USB port.
  - If using NDI, ensure your network is configured and connect an Ethernet cable to the LAN port.
3. **Video Outputs:** Connect your monitors or recording devices to the HDMI outputs (PGM, MV) and the SDI output.
4. **Audio Inputs:** Connect external microphones or audio sources to the MIC 1 and MIC 2 ports.

5. **Network Connection:** For live streaming and remote control, connect an Ethernet cable from the LAN port to your network router or switch.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Powering On/Off

To power on the device, press the power button located on the unit. The integrated screen will illuminate. To power off, press and hold the power button until the device shuts down.

### 4.2 User Interface and Input Selection

The 10.1-inch flip-up touch screen provides intuitive control over all functions. Use the physical buttons and faders on the control panel in conjunction with the touch screen for seamless operation.



Figure 4.1: Super Source Output Display

This image illustrates the Super Source Output feature, where multiple input sources are combined and displayed on the screen, allowing for complex layouts and monitoring.

Select desired input sources using the dedicated input buttons (1-4 for HDMI/SDI, Media for internal player, etc.) on the control panel. The selected input will appear in the preview (PVW) window on the screen.

### 4.3 Video Transitions

The NeoLIVE N5/N5S offers various transition effects including FADE, WIPE, DIP, and DVE. Use the T-bar or the CUT/AUTO buttons to switch between PVW and PGM. Adjust transition duration from 0.5 to 1.5 seconds using the dedicated duration button.

## Dual Channel Live Streaming

The NeoLIVE N5 Series built-in hardware streaming engine allows streaming directly through Ethernet without a computer. Once you've selected your live streaming platform, simply enter the streaming key into the built-in web server to stream in high quality on platforms like TikTok, Instagram, YouTube, or Facebook with no frame drops.



Figure 4.2: Multiple Transition Effects

This diagram displays the array of transition effect icons available on the NeoLIVE N5/N5S, including various wipes, fades, and digital video effects (DVEs), allowing for dynamic scene changes.

### 4.4 Audio Mixing

The built-in professional audio mixer supports AFV (Audio-Follow-Video) and MIX audio modes. You can mix HDMI embedded audio with external audio sources connected to the MIC inputs. Monitor the mixed audio via the headphone jack.



## Built-in Media Playback

The NeoLIVE N5 Series includes a built-in media player that can play videos from storage devices and use those videos as input sources.



Figure 4.3: Built-in Mixer for Real-time Audio Mixing

This image shows the on-screen interface of the audio mixer, displaying individual audio levels for program (PGM), media, and microphone inputs (Mic 1, Mic 2), along with options for AFV and MIX modes.

### 4.5 Media Playback and Overlays

The integrated media player allows you to play videos directly from connected storage devices (USB drives). You can also import JPG and PNG images for use as graphics or overlays. The lower-third dynamic overlay feature enriches visual effects for titles or information display.



Figure 4.4: Lower Third Dynamic Overlay

This image demonstrates a lower-third graphic overlay, typically used to display names, titles, or other textual information during a live broadcast, enhancing the professional appearance of the production.

## 4.6 Virtual Chroma Key

Utilize the virtual chroma key algorithm for professional background removal, ideal for news broadcasting or virtual sets. The system supports precise color sampling for accurate keying.

## SUPER SOURCE Output

NeoLIVE N5 Series Support super source multi-input combined as output.

Figure 4.5: Virtual Chroma Key Application

This image illustrates the application of virtual chroma key, where a person filmed against a green screen is composited onto a virtual background, commonly used in news and weather broadcasts.

## 4.7 Live Streaming and Recording

The built-in hardware streaming engine allows direct streaming via Ethernet to popular platforms without the need for an external computer. Simply configure your streaming key through the web server interface. You can also record your live audio and video directly to a connected USB drive or external hard disk.



Figure 4.6: Dual Channel Live Streaming

This image depicts the dual-channel live streaming capability of the NeoLIVE N5/N5S, showing how it can stream directly to multiple platforms (e.g., TikTok, YouTube, Twitch) and interact with a mobile device for chat or monitoring.

## 4.8 PTZ Camera Control

The switcher supports precise control of up to four PTZ (Pan-Tilt-Zoom) cameras. Use the integrated joystick and control buttons to smoothly adjust camera positions and zoom levels, facilitating dynamic multi-camera productions.



Figure 4.7: Precise PTZ Camera Control

This image illustrates the PTZ camera control feature, showing a robotic camera and a hand manipulating a joystick, indicating the ability to remotely control camera movements and zoom directly from the switcher.

# 5. MAINTENANCE

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## 5.1 Cleaning

To maintain the performance and appearance of your NeoLIVE N5/N5S, follow these cleaning guidelines:

- Always power off and disconnect the device before cleaning.
- Use a soft, dry cloth to wipe the exterior surfaces.
- For the screen, use a microfiber cloth specifically designed for electronics displays. Do not use abrasive cleaners or solvents.
- Keep vents clear of dust and debris to ensure proper airflow.

## 5.2 Storage

When not in use for extended periods, store the switcher in a cool, dry place, away from direct sunlight and extreme



temperatures. It is recommended to store it in its original packaging or a protective case to prevent damage.

## SUPER SOURCE Output

NeoLIVE N5 Series Support super source multi-input combined as output.



## Multi-Functional Input

The NeoLIVE R5PRO features a multi-functional input that can directly play media video sources from a USB drive or connect to a UVC camera without converters. It also supports NDI, SRT, and RTMP protocols to stream remote video feeds into the switcher and use them as an input source, achieving local live streaming.



Figure 5.1: NeoLIVE N5/N5S in Carrying Case

This image shows the NeoLIVE N5/N5S switcher securely stored within its grey protective carrying case, emphasizing its portability and ease of storage.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your NeoLIVE N5/N5S switcher.

Problem	Possible Cause	Solution
No video signal on input.	Incorrect cable connection, incompatible resolution, source not powered on.	Check all cable connections. Ensure source device is powered on. Verify source resolution is supported by the switcher. Try a different cable.
No audio output.	Audio levels too low, incorrect audio input selected, output device issues.	Check audio mixer levels on the screen. Ensure correct audio input is selected (embedded HDMI or external MIC). Verify output device (speakers, headphones) is working and connected correctly.
Live stream is buffering or dropping frames.	Poor network connection, incorrect streaming settings, insufficient internet bandwidth.	Check your internet connection speed and stability. Reduce streaming bitrate in settings. Ensure no other devices are heavily using network bandwidth. Try a wired Ethernet connection if on Wi-Fi.
Device does not power on.	Power adapter not connected, faulty power outlet, power adapter issue.	Ensure the power adapter is securely connected to the device and a working power outlet. Try a different power outlet. Contact support if the issue persists.

## 7. SPECIFICATIONS

Technical specifications for the SPROLINK NeoLIVE N5/N5S Video Streaming Switcher.

Feature	Detail
Product Dimensions	2.48 x 9.84 x 8.11 inches
Item Weight	7.04 pounds
Model Number	Neolive N5
Batteries	1 Lithium Metal battery required (included)
Color	Black
Connector Type	HDMI, SDI
Compatible Devices	Camera, Monitor, Personal Computer
Input Interfaces	4 x 3G-SDI, 4 x HDMI (HDMI 1 & 2 support 4K), USB, NDI (optional)
Output Interfaces	2 x HDMI (PGM, MV), 1 x SDI
Screen Size	10.1-inch integrated display
Audio Mixer	Professional audio mixer with AFV and MIX modes
Streaming	Built-in hardware streaming engine via Ethernet
Recording	Direct to USB drive/external hard disk

## 8. WARRANTY AND SUPPORT

SPROLINK provides comprehensive support for its products.

### 8.1 Warranty Information

The SPROLINK NeoLIVE N5/N5S comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or external factors.

### 8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact SPROLINK customer support. Our team is available to assist you with any questions or issues you may encounter.



Figure 8.1: SPROLINK Customer Support

This image shows a group of customer support representatives, symbolizing the availability of 24/7 customer assistance for SPROLINK products.

Please visit the official SPROLINK website or refer to your purchase documentation for the most up-to-date contact information.

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