Blackmagic Design SWATEMTVSTU/PRO4K

Blackmagic Design ATEM Television Studio Pro 4K Live Production Switcher User Manual

Model: SWATEMTVSTU/PRO4K

1. INTRODUCTION

The Blackmagic Design ATEM Television Studio Pro 4K is a professional live production switcher designed for multi-camera setups, offering advanced features for broadcast-quality video production. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device to ensure optimal performance. Key features include:

- 8x 12G-SDI inputs and outputs for Ultra HD formats up to 2160p60.
- Integrated audio/visual software for comprehensive control.
- Built-in Chroma Keyer, multiview, and motion clips.
- 6-band EQ audio mixer.
- 1/4" Headphone/Mic Inputs and 2-channel XLR Audio.
- Remote Multiview Inputs.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the ATEM Television Studio Pro 4K from its packaging. Inspect the unit for any signs of damage. Ensure all components listed in the packing slip are present.

2.2 Connecting Power

Connect the provided power cable to the 12V-30V 6A power input on the rear panel of the switcher. Plug the other end into a suitable power outlet. The unit will power on automatically.

2.3 Video Connections

The ATEM Television Studio Pro 4K features eight independent 12G-SDI inputs and multiple outputs. Use high-quality 12G-SDI cables for all video connections.

- **SDI Inputs:** Connect your cameras, computers, or other video sources to the SDI INPUTS (1-8).
- **SDI Outputs:** Connect your program output to monitors or recorders via the PGM (Program) output. Use the

AUX and MULTIVIEW outputs for additional monitoring needs.

- **REF IN:** Connect a reference signal for genlock if required in your production environment.

This image displays the rear panel of the ATEM Television Studio Pro 4K, highlighting the power input, remote control port, USB 2.0, multiple SDI inputs and outputs, AUX, Multiview, REF IN, PGM, and analog audio inputs (XLR and 1/4 inch headphone/mic inputs).

2.4 Audio Connections

Connect external audio sources to the 2-channel XLR ANALOG AUDIO IN ports. For headphones or microphones, use the 1/4" Headphone/Mic Inputs.

2.5 Network and USB Connections

- **CONTROL (Ethernet):** Connect an Ethernet cable to your network for control from a computer running ATEM Software Control.
- **USB 2.0:** Connect to a computer for software updates and direct recording.

3. OPERATING INSTRUCTIONS

The ATEM Television Studio Pro 4K features an integrated control panel for direct operation, complemented by the ATEM Software Control for advanced settings and customization.

The control surface of the ATEM Television Studio Pro 4K features a comprehensive layout of illuminated buttons for source

3.1 Basic Switching

To switch between video sources:

1. Press a source button in the **PREVIEW** row to select the next source to go live.
2. Press the **CUT** button for an instant transition, or the **AUTO** button for a programmed transition (e.g., dissolve, wipe).
3. Alternatively, use the T-bar fader for manual transitions.

3.2 Audio Mixer

The built-in 6-band EQ audio mixer allows for precise control over all audio inputs. Adjust levels, apply equalization, and manage audio routing directly from the control panel or via the ATEM Software Control.

3.3 Advanced Features

- **Chroma Keyer:** Utilize the advanced Chroma Keyer for professional green screen effects.
- **Multiview:** Monitor all your inputs, program, and preview feeds on a single screen using the Multiview output.
- **Motion Clips:** Integrate motion graphics and clips into your live production.

3.4 Recording and Streaming

The ATEM Television Studio Pro 4K supports direct recording and live streaming capabilities. Refer to the ATEM Software Control manual for detailed instructions on configuring recording settings and streaming platforms.

4. MAINTENANCE

4.1 Cleaning

To maintain the appearance and functionality of your switcher, regularly clean the exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Ensure no liquids enter the device.

4.2 Software Updates

Periodically check the Blackmagic Design website for the latest software updates for your ATEM Television Studio Pro 4K. Keeping your software up-to-date ensures access to new features, performance improvements, and bug fixes. Updates are typically performed via the USB connection to a computer.

5. TROUBLESHOOTING

If you encounter issues with your ATEM Television Studio Pro 4K, consider the following common troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the switcher and a working power outlet. Verify the power supply is functioning correctly.
- **No Video Input:** Check all SDI cable connections. Confirm that your video sources are powered on and outputting a compatible signal (up to 2160p60).
- **No Video Output:** Verify that your monitors or recording devices are correctly connected to the SDI outputs (PGM, AUX, Multiview) and are set to the correct input.
- **Audio Issues:** Check all audio cable connections. Ensure input levels are correctly adjusted on the audio mixer.
- **Control Panel Unresponsive:** Restart the switcher. If using ATEM Software Control, ensure the Ethernet connection is stable and the software is correctly configured.

For persistent issues, consult the comprehensive Blackmagic Design support resources available on their official website or contact their customer support.

6. SPECIFICATIONS

Feature	Detail
Model Number	SWATEMTVSTU/PRO4K
Manufacturer	Blackmagic Design
Product Dimensions	22 x 17 x 10 inches
Item Weight	14.3 pounds
Video Inputs	8x 12G-SDI
Video Outputs	Multiple 12G-SDI (PGM, AUX, Multiview)
Audio Inputs	2-channel XLR, 1/4" Headphone/Mic
Date First Available	April 17, 2018

7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official Blackmagic Design website or the warranty card included with your product. Blackmagic Design provides comprehensive support resources, including product manuals, software downloads, and a knowledge base.

You can typically find support and contact information on the official Blackmagic Design website:

www.blackmagicdesign.com/support