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› Allen & Heath Avantis Solo 64-Channel Digital Mixer User Manual

Allen & Heath AH-AVANTIS-SOLO

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Model: AH-AVANTIS-SOLO

INTRODUCTION

The Allen & Heath Avantis Solo is a powerful 64-channel digital mixer designed for professional audio applications. It features a single touchscreen interface and is powered by Allen & Heath's award-winning XCVI FPGA technology. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Avantis Solo mixer.

The Avantis Solo boasts 64 channels of input processing with 42 configurable busses, an intelligent SLink port for remote expanders, and studio-grade hardware emulations via the optional dPack upgrade. Its robust full metal chassis ensures durability.



Figure 1: Front view of the Allen & Heath Avantis Solo digital mixer, showcasing its large touchscreen and control surface.

SETUP

Unboxing and Initial Inspection

Carefully remove the Avantis Solo mixer from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Ensure all components listed in the packing list are present. Retain the original packaging for future transport or storage.

Power Connection

The Avantis Solo is powered by a corded electric connection. Connect the provided power cable securely to the mixer's power input and then to a suitable AC power outlet. Ensure the power source meets the voltage requirements specified on the unit.

Connectivity

The Avantis Solo offers extensive connectivity options for various audio setups:

- **XLR Inputs:** The mixer includes 6 locking XLR inputs for connecting microphones and line-level sources.
- **AES Digital Input:** One AES digital input is available for digital audio signals.
- **SLink Port:** An intelligent SLink port allows connection to Allen & Heath's Everything I/O range of remote expanders, extending your input/output capabilities.
- **Network I/O:** Network I/O connections support up to 64 channels, facilitating integration into larger networked audio systems.
- **I/O Ports:** Supports 128 x 128 operation at 96kHz for various digital formats, ensuring high-quality audio routing.



Figure 2: Top-down view of the Avantis Solo, highlighting the control surface and touchscreen layout.

OPERATING INSTRUCTIONS

User Interface and Control

The Avantis Solo features a 15.6-inch touchscreen with intuitive gesture control, providing a seamless and responsive user experience. The Continuity UI blends digital and analog control for efficient workflow.

- **Assignable Layout:** The layout is fully assignable, allowing you to customize the interface to suit your specific needs and preferences.
- **Channel Strips:** There are 12 manual channel strips with 6 switchable banks, offering flexible control over your audio channels.
- **SoftKeys:** 18 assignable SoftKeys provide quick access to frequently used functions and custom commands.



Figure 3: Angled view of the Avantis Solo, showing the ergonomic design and accessibility of controls.

Audio Processing and Effects

The mixer's 96kHz XCVI Core, based on next-generation FPGA technology, delivers 64 full processing inputs and a configurable 42 bus architecture with phase coherency on all mix outputs. It features variable bit depth for ultimate precision and noise performance, and a 96-bit mix bus.

- **DEEP Processing:** XCVI enables DEEP processing, embedding class-leading processing emulations directly within the input and mix channels.
- **RackExtra FX:** Utilize 12 RackExtra FX slots with dedicated returns for a wide range of studio-grade effects.
- **Word Clock:** Onboard word clock ensures perfect synchronization with other digital audio gear.



Figure 4: Close-up view of the faders and soft keys on the Avantis Solo control surface, demonstrating tactile control elements.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Avantis Solo mixer.

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior surfaces, including the touchscreen. For stubborn marks, a slightly damp cloth with a mild, non-abrasive cleaner can be used, but avoid spraying liquids directly onto the unit.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to prevent overheating.
- **Storage:** When not in use for extended periods, store the mixer in a clean, dry environment, ideally in its original packaging or a dedicated flight case to protect it from dust and physical damage.
- **Cable Management:** Regularly check all cable connections for wear and tear. Ensure cables are not kinked or strained.



Figure 5: Side profile of the Avantis Solo, illustrating its robust chassis and ergonomic angle.

TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. For more detailed assistance, refer to the official Allen & Heath support resources.

- **No Power:**

- Check that the power cable is securely connected to both the mixer and the power outlet.
- Verify that the power outlet is functional.
- Ensure the power switch on the mixer is in the 'On' position.

- **No Audio Output:**

- Confirm that all input sources are properly connected and active.
- Check channel fader levels, master output levels, and mute statuses.
- Verify that the correct output routing is selected.
- Ensure external amplifiers or powered speakers are connected and turned on.

- **Touchscreen Unresponsive:**

- Attempt a soft reset by powering the unit off and on.
- Ensure the screen is clean and free of debris.



Figure 6: Another side profile view of the Avantis Solo, showing its compact yet robust form factor.

SPECIFICATIONS

Feature	Detail
Item Weight	99 pounds
Package Dimensions	32.6 x 28.7 x 16.7 inches
ASIN	B0CLMZQJQJ

Feature	Detail
Item Model Number	AH-AVANTIS-SOLO
Date First Available	October 23, 2023
Power Source	Corded Electric
Brand	Allen & Heath
Number of Channels	64
Connectivity Technology	XLR, AES/EBU, SLink
Frequency	96 KHz



Figure 7: The Avantis Solo mixer illuminated in a studio environment, showcasing its professional appearance.

WARRANTY AND SUPPORT

Protection Plans

Extended protection plans may be available for your Avantis Solo mixer. For details on coverage and terms, please refer to the specific plan documentation. Examples of available plans include:

- 2-Year Protection Plan
- 3-Year Protection Plan

Please note that these are optional plans and their availability and terms may vary.

Customer Support

For technical assistance, service, or further inquiries, please contact Allen & Heath customer support. You can also visit the official [Allen & Heath Store on Amazon](#) for additional resources and product information.

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