HAYDEN HY-A4

HAYDEN HY-A4 4-Channel Pro Audio Mixer User Manual

Model: HY-A4

1. INTRODUCTION

Thank you for choosing the HAYDEN HY-A4 4-Channel Pro Audio Mixer. This manual provides detailed instructions for the setup, operation, and maintenance of your audio mixer. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your audio experience.

The HY-A4 is a versatile audio mixer designed for various applications including podcasting, karaoke, DJ performances, and live streaming. It features multiple input options, Bluetooth connectivity, USB MP3 playback, and 48V phantom power for condenser microphones.

2. PRODUCT FEATURES

- **4-Channel Audio Interface:** Two mono channels with XLR/1/4" combo inputs and two stereo channels (CH3/4) with 1/4" inputs.

- **+48V Phantom Power:** Provides power for condenser microphones on channels 1 and 2.

- **2-Band EQ:** High and Low frequency adjustments for each channel to fine-tune your sound.

- **Built-in Effects:** Repeat and Delay effects for enhanced audio.

- **Bluetooth Connectivity:** Wireless audio streaming from compatible devices (phone, tablet, PC, laptop).

- **USB MP3 Player:** Play music directly from a USB thumb drive.

- **PC Recording:** Connect via USB to a computer for recording audio using compatible software.

- **Real-time Monitoring:** Headphone output for direct audio monitoring.

- **Compact and Portable Design:** Durable ABS construction for both indoor and outdoor use.

3. CONTROLS AND FUNCTIONS

Familiarize yourself with the various controls and connection points on your HAYDEN HY-A4 mixer. Refer to the diagram below for a visual guide.

Figure 3.1: Front Panel Controls and Connections of the HAYDEN HY-A4 Mixer. This diagram illustrates the layout of all input jacks, output jacks, and control knobs, including gain, EQ, effect, and level adjustments for each channel, as well as master volume and monitoring controls.

Input Section (Channels 1 & 2)

- **XLR/6.35mm Combo Jack:** Connect microphones (XLR) or instruments (6.35mm/1/4" TS/TRS).
- **HI-Z Button:** Engages high impedance input for instruments like guitars.
- **+48V Button:** Activates phantom power for condenser microphones.
- **GAIN Knob:** Adjusts the input sensitivity for the channel.
- **HI Knob:** Adjusts the high-frequency equalization for the channel.
- **LOW Knob:** Adjusts the low-frequency equalization for the channel.
- **EFF Knob:** Controls the amount of effect (delay/repeat) applied to the channel.
- **PK LED:** Peak indicator, illuminates when the input signal is too high, indicating potential clipping.
- **LEVEL Knob:** Adjusts the output volume of the individual channel.

Input Section (Channel 3/4 Stereo)

- **L/MONO & R 1/4" Jacks:** Connect stereo line-level devices or a mono device to the L/MONO jack.
- **GAIN Knob:** Adjusts the input sensitivity for the stereo channel.
- **HI Knob:** Adjusts the high-frequency equalization for the channel.
- **LOW Knob:** Adjusts the low-frequency equalization for the channel.
- **EFF Knob:** Controls the amount of effect (delay/repeat) applied to the channel.
- **PK LED:** Peak indicator, illuminates when the input signal is too high.

- **LEVEL Knob:** Adjusts the output volume of the individual channel.

Master Section & Outputs

- **USB Audio / MP3 Player:**

  - **USB Port:** For connecting a USB drive for MP3 playback or connecting to a PC for recording/playback.
  - **Display Screen:** Shows track information, mode, and Bluetooth status.
  - **Control Buttons (Play/Pause, Skip, Mode):** Navigate tracks and switch between USB, Bluetooth, and PC modes.

- **REC Output (RCA):** Connects to recording devices.

- **MAIN Output (1/4" L/R):** Connects to main speakers or amplifiers.

- **PHONES Output (1/4"):** Connects headphones for monitoring.

- **HEADSET Jack (3.5mm):** Connects a headset with microphone.

- **DEL Knob:** Adjusts the delay time of the effect.

- **REP Knob:** Adjusts the repeat intensity of the effect.

- **MAIN Knob:** Controls the overall output volume of the mixer.

- **PHONES Knob:** Controls the volume of the headphone output.

- **LED Indicators:** CLIP (signal clipping), SIG (signal present), POW (power on).

4. SETUP

Follow these steps to set up your HAYDEN HY-A4 mixer for operation.

Figure 4.1: Universal Compatibility and Connection Diagram. This image illustrates how to connect various audio devices such

as guitars, microphones (wired and condenser), electronic keyboards, power amplifiers, headphones, laptops, and power banks to the HY-A4 mixer.

4.1 Power Connection

1. Ensure the mixer is turned off before connecting power.
2. Connect the provided 5V 2.5A power adapter to the DC 5V input port on the mixer.
3. Plug the power adapter into a suitable electrical outlet.

Figure 4.2: Powering the HY-A4 Mixer. This image shows the mixer connected to its 5V power adapter, highlighting the importance of using the correct power supply for optimal performance and microphone output.

4.2 Input Device Connection

- **Microphones:** Connect XLR microphones to the XLR inputs on channels 1 or 2. For condenser microphones, activate the +48V phantom power button for the respective channel.
- **Instruments:** Connect guitars or other instruments to the 1/4" inputs on channels 1 or 2. Press the HI-Z button for high impedance instruments.
- **Line-Level Devices:** Connect keyboards, media players, or other line-level devices to the 1/4" L/MONO and R inputs of channel 3/4.

4.3 Output Device Connection

- **Main Speakers/Amplifiers:** Connect the MAIN L/R outputs to your main sound system using 1/4" cables.

- **Recording Devices:** Connect the REC RCA outputs to your recording interface or device.

- **Headphones:** Connect headphones to the PHONES 1/4" jack for monitoring.

5. OPERATION

5.1 Basic Mixing

1. Turn on the mixer using the power switch. The POW LED will illuminate.

2. Ensure all GAIN, LEVEL, MAIN, and PHONES knobs are set to their minimum positions before playing any audio.

3. Connect your input sources and output devices as described in the Setup section.

4. Gradually increase the GAIN knob for each active input channel until the SIG LED flickers consistently, but the PK LED does not light up. If the PK LED illuminates, reduce the GAIN to prevent clipping.

5. Adjust the HI and LOW EQ knobs for each channel to shape the tone of your audio.

6. Slowly raise the LEVEL knob for each active channel to blend the sounds.

7. Adjust the MAIN knob to control the overall output volume to your speakers/amplifier.

8. Use the PHONES knob to set your desired monitoring volume.

5.2 Using Phantom Power (+48V)

Phantom power is required for condenser microphones. To activate:

1. Connect your condenser microphone to the XLR input of Channel 1 or 2.

2. Press the +48V button for the corresponding channel. The +48V LED will light up.

3. Ensure the microphone is connected before activating phantom power to prevent damage to non-phantom powered devices.
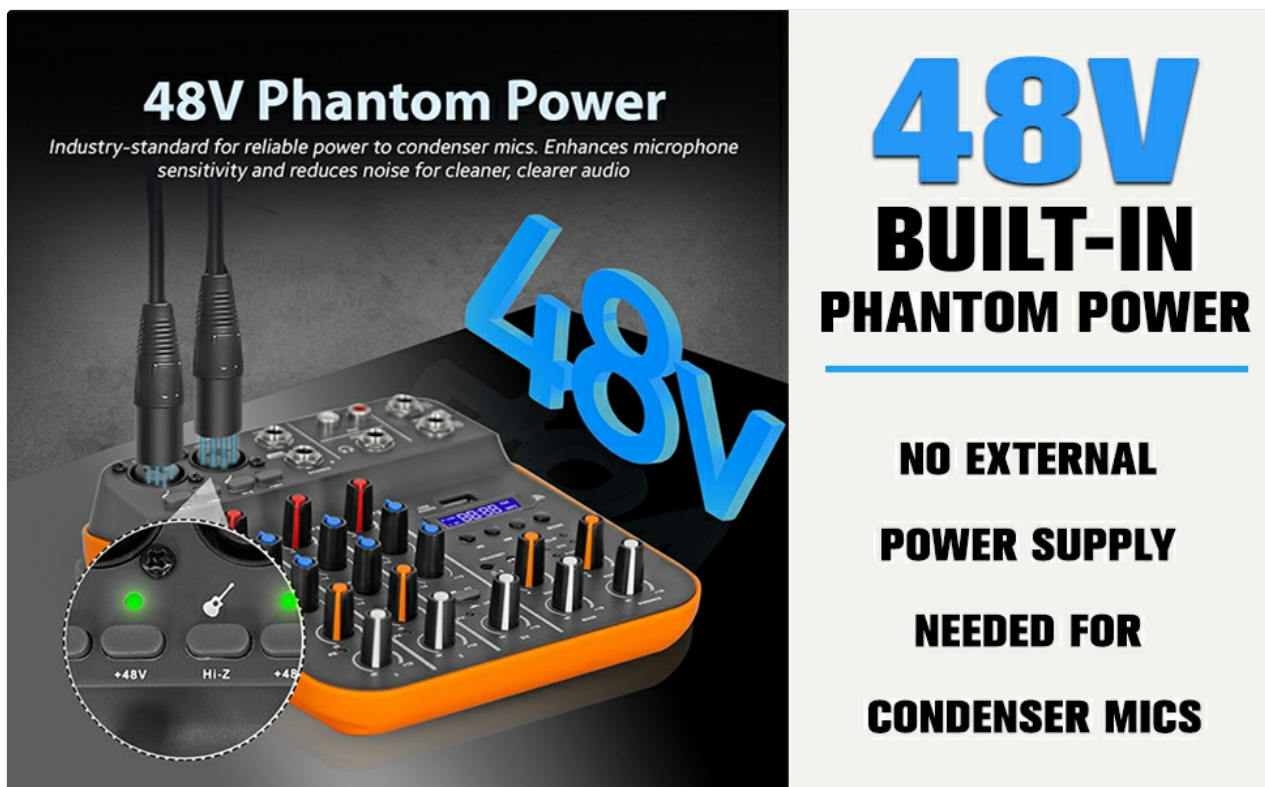
Figure 5.1: Activating 48V Phantom Power. This image highlights the +48V button and its indicator, demonstrating how to provide necessary power for condenser microphones directly from the mixer.

5.3 Bluetooth Connectivity

The HY-A4 supports Bluetooth 5.4 for wireless audio streaming.

Figure 5.2: Bluetooth Wireless Connection. This image illustrates the mixer's Bluetooth capability, allowing for stable and fast wireless audio streaming from a smartphone or other Bluetooth-enabled device.

1. Press the MODE button on the USB/MP3 player section until "BT" appears on the display.
2. On your Bluetooth-enabled device (e.g., smartphone), search for available devices and select "HAYDEN

HY-A4".

3. Once paired, you can stream audio wirelessly to the mixer. Adjust the channel 3/4 LEVEL knob to control the Bluetooth audio volume.

5.4 USB MP3 Playback

1. Insert a USB thumb drive containing MP3 audio files into the USB port.

2. The mixer will automatically switch to USB mode, or you can select it using the MODE button.

3. Use the playback control buttons (Play/Pause, Skip) to navigate your music.

4. Adjust the channel 3/4 LEVEL knob to control the USB audio volume.

5.5 PC Recording

1. Connect the mixer to your computer using a USB cable (not included) via the USB port.

2. The computer should recognize the mixer as an audio device. You may need to select it as the input/output device in your operating system's sound settings or your recording software (e.g., Audacity).

3. Ensure the mixer is in PC mode (indicated on the display, if applicable, or automatically detected by the computer).

4. Adjust input levels on the mixer and within your recording software to achieve optimal recording quality.

5.6 Real-time Monitoring

The PHONES output allows you to monitor your mix directly.

Figure 5.3: Real-time Ear Monitoring. This image shows a user monitoring audio through headphones connected to the mixer, allowing for immediate feedback and adjustments to the sound.

1. Connect your headphones to the 1/4" PHONES jack.
2. Adjust the PHONES knob to control the headphone volume independently of the main output.

6. SPECIFICATIONS

Feature	Specification
Model	HY-A4
Channels	4 (2 Mono, 2 Stereo)
Inputs	XLR/1/4" Combo (x2), 1/4" TS/TRS (x2), USB, Bluetooth
Phantom Power	+48V (Channels 1 & 2)

Feature	Specification
EQ	2-Band (High, Low) per channel
Effects	Delay, Repeat
Bluetooth Version	5.4
USB Support	MP3 Playback, PC Recording
Outputs	MAIN L/R (1/4"), REC (RCA), PHONES (1/4")
Power Source	Corded Electric, 5V 2.5A
Material	Durable Plastic (ABS)
Dimensions (L x W x H)	23.4 x 22.8 x 7 cm (approx.)
Weight	790 g (approx.)
Frequency Response	20Hz - 20kHz

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your HAYDEN HY-A4 mixer.

7.1 No Sound Output

- **Check Power:** Ensure the mixer is powered on and the POW LED is illuminated.
- **Volume Levels:** Verify that all GAIN, LEVEL, MAIN, and PHONES knobs are turned up sufficiently.
- **Cable Connections:** Confirm all input and output cables are securely connected and not damaged.
- **Speaker/Amplifier:** Ensure your connected speakers or amplifier are powered on and functioning correctly.
- **Input Source:** Check if your input device (microphone, instrument, etc.) is producing a signal.

7.2 Distorted Sound / Clipping

- **Reduce Gain:** If the PK LED on a channel is constantly lit, reduce the GAIN knob for that channel.
- **Input Level:** Ensure the output level from your input device is not too high.
- **Main Output:** Reduce the MAIN knob if the overall output is distorting.

7.3 Microphone Not Working (Condenser Mics)

- **+48V Phantom Power:** Ensure the +48V button is pressed and its LED is illuminated for the channel connected to the condenser microphone.
- **XLR Cable:** Use a balanced XLR cable for condenser microphones.

7.4 Bluetooth Connection Issues

- **Mode Selection:** Ensure the mixer is in Bluetooth mode (display shows "BT").

- **Device Pairing:** Confirm your device is correctly paired with "HAYDEN HY-A4". Try unpairing and re-pairing.
- **Distance:** Ensure your Bluetooth device is within range of the mixer.
- **Interference:** Move away from other wireless devices that might cause interference.

7.5 USB MP3 Playback Failure

- **USB Format:** Ensure the USB drive is formatted to FAT32 and contains compatible MP3 files.
- **USB Drive Condition:** Try a different USB drive to rule out a faulty drive.
- **Mode Selection:** Ensure the mixer is in USB mode.

8. MAINTENANCE

Proper care and maintenance will extend the life of your HAYDEN HY-A4 mixer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Do not use liquid cleaners or solvents.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Protection:** Avoid exposing the mixer to dust, moisture, or excessive vibrations.
- **Cable Care:** Always handle cables by the connectors, not the wires, to prevent damage.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please contact the importer or packer:
Importer/Packer: SPECTRUM AND CO. NEW DELHI
Customer Care: 9212347774
Please retain your proof of purchase for any warranty claims.

Related Documents - HY-A4

[Hayden Transmission & Engine Oil Coolers Technical Guide](#)
Explore Hayden's comprehensive technical guide for transmission, engine, and power steering oil coolers, including ECONO-KOOL®, MAXI-KOOL® XL, and Swirl Cool® models. Find detailed specifications, features, and application compatibility for a wide range of vehicles and heavy-duty uses.
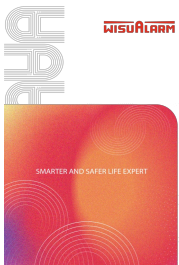
[Octo HY Pump Instruction Manual - Features, Specifications, and Troubleshooting](#)
Comprehensive instruction manual for Octo HY series pumps by HONYA CO., LTD. Covers overview, safety tips, assembly, package contents, detailed specifications, performance curves, maintenance, and troubleshooting for aquarium pumps.

[DUNGS GGAO-A4 Differential Gas Pressure Switch Installation Instructions](#)
Installation instructions and specifications for the DUNGS GGAO-A4 differential gas pressure switch. Covers approvals, operation, mounting, wiring, maintenance, and accessories.

[Wisualarm Fire Safety and Smart Home IoT Products Catalog](#)
Explore the comprehensive range of Wisualarm fire safety and smart home IoT products, including smoke alarms, carbon monoxide detectors, heat alarms, and environmental sensors, designed for enhanced safety and convenience.

[Innova Cellular USB-C Cable (CAB/1P) - Specifications, Warranty, and Safety Information](#)
Comprehensive guide to the Innova Cellular USB-C cable (CAB/1P), featuring its specifications, 3-year warranty terms, declaration of conformity, customer service contact details, and essential safety warnings. This pink USB-A to USB-C cable supports data transfer and a maximum current of 1.5A.

[Hilti HAS-U A4 System for Fatigue Loading: Technical Datasheet](#)
Comprehensive technical datasheet for the Hilti HAS-U A4 anchor system designed for fatigue loading applications. Includes specifications, approvals, design resistance data, and setting information for steel-to-concrete connections.