



Antelope
OWNER'S MANUAL

MP 8d

8-CHANNEL
MIC PREAMP AND A/D



Owner's Manual

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1. Safety Notes



To reduce the risk of electrical shocks, fire, and related hazards:

- Do not remove screws, cover, or cabinet. There are no user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not expose this device to rain, moisture or spillover of liquid of any kind.
- Should any form of liquid or a foreign object enter the device, do not use it. Switch off the device and then unplug it from the power source. Do not operate the device again until the foreign object is removed or the liquid has completely dried and its residues fully cleaned up. If in doubt, please consult the manufacturer.
- Do not handle the power cables with wet hands!
- Make sure the device is switched off when plugging/unplugging it to/from the power source.
- Avoid placing things on the cabinet or using the device in a narrow and poorly ventilated place which could affect its operation or the operation of other closely located components.
- If anything goes wrong, turn off the device first and then unplug the power. Do not attempt to repair the device yourself: consult authorized service personnel or your dealer.
- Do not install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not use harsh chemicals to clean your unit. Clean only with specialized cleaners for electronics equipment.
- Connect all your devices before powering your unit.
- This unit is connected via its power cord to the mains safety earth.
- Never operate the unit without this earth connection.
- AC power supply cable should be routed so that it is not likely to be walked on or squeezed by items placed upon or against it.
- To completely turn off the device, unplug the power cable first from the outlet and then from the rear panel of the unit.
- Both, occasional and continued exposure to high sound pressure levels can cause permanent ear damage via headphones and monitors.
- Your unit should always be un-racked when traveling or in a flight case.
- The device is designed to operate in a temperate environment, with a correct Operating Temperature of:

0-50 °C, 32-122 °F

2. Introduction

Thank you for purchasing the **MP8d** from Antelope Audio.

MP8d provides 8 Channels of transparent, class A microphone preamplifier in a compact 1U rack design. **MP8d** boasts Antelope Audio's integrated world-class A/D conversion. This classically rich, yet modernly precise sound is accomplished thanks to Antelope's Acoustically Focused Clocking jitter management algorithm and Oven-Controlled crystal oscillator, along with advanced analog and digital circuit board design, powered by a proprietary power supply.

MP8d relies on the highly sophisticated, yet easy to use software control concept developed for Orion32 and Zen Studio. **MP8d** utilizes eight clean, precise and transparent, digitally controlled class A mic pres and two Hi-Z ins. Alongside A/D conversion with carefully optimized analog driver stage, **MP8d** provides an integrated DSP engine with a mixer, on-board effects, intuitive signal routing and HP monitoring capability. With digital connectivity, including MADI and AES, **MP8d** offers extended flexibility. Two WC outputs combined with Antelope's renowned clocking and a 10 MHz input for atomic clock, ensure that **MP8d** is ideally suited at the center of any project or high-end studio.

MP8d is the ultimate device for both live and studio applications, and the perfect companion to Antelope's Orion32 and Zen Studio audio interfaces.

MP8d – the latest edition to Antelope's expanding eco-system concept.

Enjoy working with the new MP8d!

All the best,
The Antelope Team

3. Features

- 8 Class A mic preamps, with individual phantom power
- 2 Hi-Z instrument inputs
- 8 Channels direct mic output on DB25
- 8 Channels Antelope Audio precise AD conversion technology
- 1 Individually assignable stereo headphone output
- Palette of digital outputs – MADI, ADAT, AES/EBU, S/PDIF, TOSLINK
- Flexible routing and mixing with extremely low latency custom DSP effects
- Antelope's renowned 64-bit Acoustically Focused Clocking with Atomic input
- Antelope's proprietary Oven Controlled Oscillator for supreme clocking stability
- Two Word Clock outputs and one Word Clock input
- Five presets for fast and easy recall of setups

4. Installation Guide

1. Connect to the AC power source via back panel connector and the USB cable to the USB port on your computer. The guest operating system will recognize the new HID compliant device (MP8d).
2. Download and install the MP8d software control panel from www.antelopeaudio.com/en/support/downloads This will enable you to control your device from your computer and select all necessary settings.
3. Open your control panel by double-clicking the icon and follow the device activation procedure.
4. Connect your choice of inputs and outputs to MP8d.

Note: Make sure your device has the most recent firmware installed. Check this by selecting the Options panel and clicking on the Firmware Update button. See *picture*:



5. Front Panel Explained



1. Power button

Toggles standby/operation state.

2. Instrument Inputs (Hi-Z Inputs)

Two Instrument Inputs allow you to connect instruments with high output impedance via TRS (1/4") connector. Hi-Z inputs are optimized for musical instruments eg. guitar and bass.

3. Rotary Control - Input Selector / Channel Gain Control knob

To select an input, press the rotary knob (please ensure that your selection matches the type of signal being inputted).

(When Mic Input is selected, the LED lights in green color. When selecting Line Input, the LED lights in blue color, and it lights in white color when Hi-Z Input is selected).

To adjust the input signal level of the MIC/LINE/Hi-Z(1&2), turn the knob left/right. (value can be adjusted in 1 dB steps).

The peak indicator lights in response to the level of the input signal.

4. Headphone Output

One 1/4" TRS Stereo Headphone jack for connecting headphones for a wide range of impedances.

5. Headphone volume rotary control knob

Adjusts level of headphone amplifier to the front panel HP (Headphone) output with a range of -95dB to 0 dB.

(Press the knob to Mute).

6. Rear Panel Explained

6. AC Power Connection

The AEC connector supports a range from ~95-245V. This enables the device to automatically accommodate mains voltage in every country.

7. Word Clock Input

BNC connector used to accept Word Clock reference.

8. Word Clock Outputs

Two Word Clock Outputs with BNC connectors.



9. 10M Input

This BNC Input Connector allows the MP8d to receive timing reference from an Atomic

Clock such as the Antelope 10M, to increase the Oscillator accuracy. The atomic device becomes the primary timing reference, thus providing better sample accuracy, more detailed sound and greater stability.

10. S/PDIF Output

One S/PDIF output using the 75 Ω S/PDIF connectivity standard.

11. TOSLINK Output

One optical 'jitter-free' TOSLINK Digital Output for use with compatible equipment.

12. ADAT Outputs

Two ADAT outputs (up to 8 channels per connector) for use with compatible equipment.

13. USB High-Speed

MP8d uses USB connector, Type B which allows you to connect the MP8d's software control panel both on Windows & Mac OS X.

14. MADI Input/Output

One MADI Connector providing 64 tracks input and 64 tracks output.

15. AES/EBU

One AES/EBU for use with compatible equipment.

(Use DE-9 connector / DB-9 – breaks down to 4 x XLR connectors. Note: cable not included).

16. D-SUB 25pin TASCAM Analog Output

One connector enables you to attach a breakout cable, 8 lines.

17. AD Inserts

Two ¼" TRS insert points for connecting analog gear such as dynamics processors or EQ's, just before the A/D conversion.

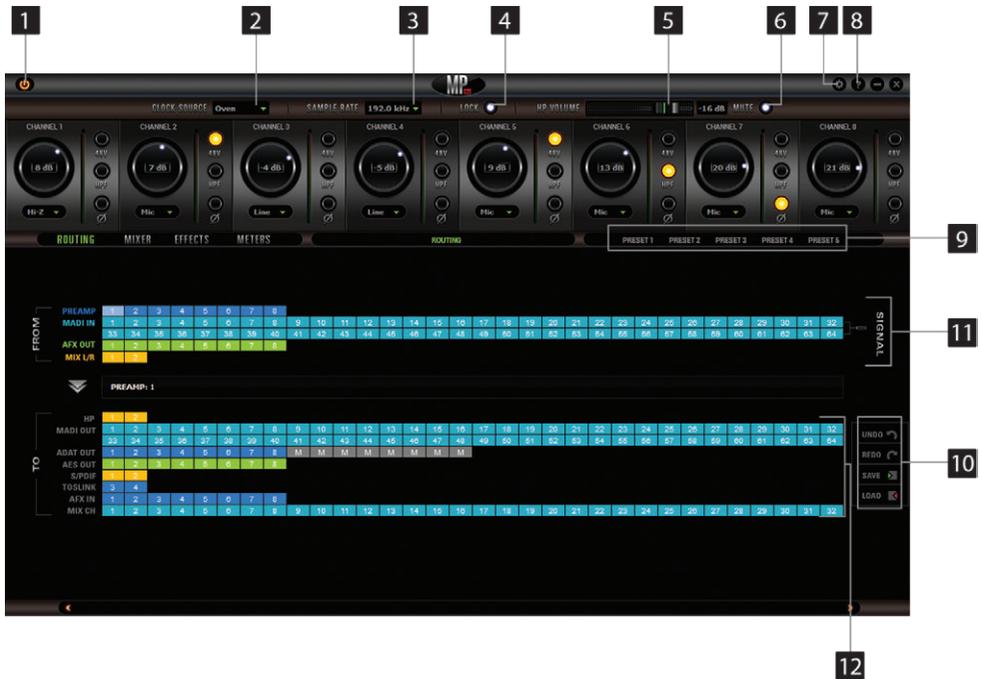
18. 8 Line and Mic Preamp Inputs

8 Class A mic preamps, with phantom power over combo XLR.

Note: When using the Hi-Z inputs (on the front panel), channels 1 & 2 (on the rear panel) are not active.

7. Software Control Panel

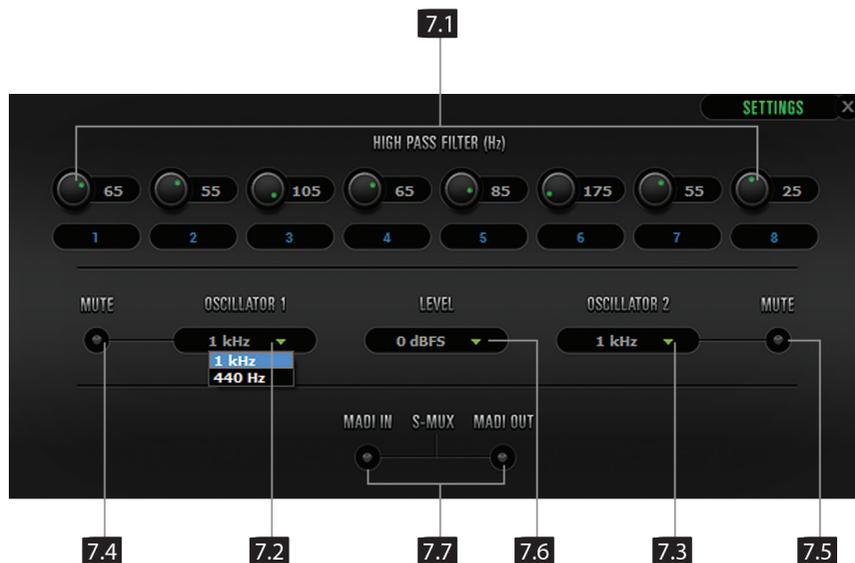
The MP8d software control panel allows you to control all the functionality of its hardware. The universal panel view sits constantly on the upper half of the control panel, allowing for quick access to the most important features.



7.1. Routing Tab and Main View options

1. Standby button
2. Clock Source select
3. Sample Rate select
4. Lock light
5. Headphone volume slider
6. HP 'Mute' button

7. Options Panel



7.1. Filter control (selects the frequency of the high-pass filter for each individual channel)

7.2. & 7.4. Oscillator 1 and Mute

7.3. & 7.5. Oscillator 2 and Mute

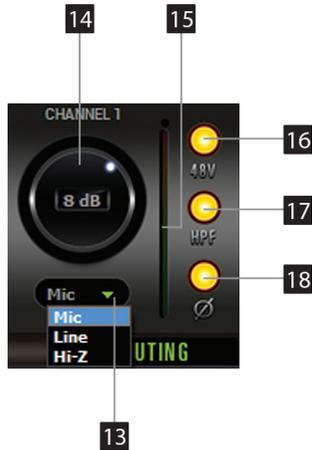
7.6. Oscillator output level

7.7. MADI In S-Mux / MADI Out S-Mux

8. Info tab



- 9. Presets
- 10. Undo/Redo Routing; Save/Load Set Up Files
- 11. 'To' Section
- 12. 'From' Section



- 13. Mic, Line and HiZ(1&2, only) modes selectable via dropdown menu (please ensure that your selection in the drop-down menu matches the type of signal being inputted).
- 14. Channel gain (value can be adjusted in 1 dB steps)
- 15. Peak meter
- 16. Independently assignable 48V phantom power switch
- 17. High-Pass Filter
- 18. Phase Reverse button

7.2. Mixer Tab

Mp8d comes with a software mixer which provides near zero latency mix and monitoring that can be distributed using the control panel. The new Mp8d allows a low latency mix to be distributed to any output.

The low latency mixer provides the basic functions of a real mixer such as: Solo, Mute, Pan, Stereo Link, Volume Level controlled by faders and a Master Fader, so you can easily make a stereo mix.



1. Fader (double-click to reset to zero)
2. Fader Level indicator
3. Pan
4. Solo
5. Mute
6. Stereo Link
7. Master Mix Fader
8. Mute Master

7.3. AFX Tab



EQ

1. Frequency Adjust Dials (double-click to return to default)
2. Gain Adjust Dials (double-click to return to default)
3. Q Adjust Dials (double-click to return to default)
4. Frequency Band Analysis Screen
5. Save / Load / Bypass
6. EQ Output Metering
7. Frequency Band Analysis Screen
8. Selectable High Pass or High Shelf Filter
9. Bandpass / Notch Filter
10. Selectable Low Pass or Low Shelf Filter

Compressor

11. Detector
12. Ratio
13. Knee
14. Threshold
15. Release
16. Attack
17. Makeup Gain
18. Compression Meter
19. Compression Curve

7.4. Meters Tab



1. Peak meters display (use the dropdown menu to select the source that you wish to be represented on the display).
2. Peak meters Source select Threshold

8. Additional Information

Additional information regarding operating systems, audio software and media players will be updated through the support area at www.antelopeaudio.com

9. In the box

- Mp8d Mic Preamp and A/D
- Printed documentation
- Warranty Card
- 1 USB Cable
- 1 AC Power Cable

11. Technical Specifications

Inputs:

Analog Inputs: 8 x Mic / Line on XLR combos on the rear panel
2 x Hi-Z (instrument) inputs on TRS on the front panel (Mic inputs 1,2)

Analog Inserts: 2 x Inserts on TRS (inputs 1,2)

Analog Outputs: 8 x Lines on DB25 (8 channels)
1 x Stereo Headphone outs on TRS (2 channels)

Digital Inputs: 1 x MADI

Digital Outputs: 1 x MADI
2 x ADAT
1 x S/PDIF
1 x TOSLINK
1 x AES/EBU on DB9 (breaks down to 4 x XLR connectors,
cable not included)

USB: 2.0 Hi-Speed, Type B, only for control

Atomic Clock: 1 x 10M Input @ 75 Ohms 1Vpp on BNC

Word Clock: 1 x Input @ 75 Ohms 3Vpp on BNC 32-192 kHz
2 x Output @ 75 Ohms 3Vpp on BNC 32-192 kHz

Mic Pre: EIN 129 dB

A/D Converter:	Dynamic Range 120 dB THD+N -110 dB
Clocking System:	4th Generation Acoustically Focused Clocking 64-bit DDS Oven Controlled Crystal Oscillator
Clocking Stability:	<+/-0.02ppm, oven controlled at 64.5°C/148.1°F
Clock Aging:	< 1ppm per year
Clock Calibration:	<+/-0.001ppm
Atomic Clock:	10 MHz
Sample Rates:	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz
Power Supply:	AC Universal input ~95-245 V, 20 Watts Max
Operating Temperature:	0-50°C/32-122°F
Weight:	3.3 kg/7.28 lb approx.
Dimensions (unit):	Width: 483mm / 19" Height: 44mm / 1.75" Depth: 230mm / 9.1"

12. Antelope Audio Support Resources

Antelope Audio offers a range of services and support resources for your Antelope hardware, firmware and software control panels.

FAQ

Several categories of frequently asked questions are available on the website:
<http://www.antelopeaudio.com/en/support>

Telephone Support

Phone line is for general inquiries and technical support: +1 734 418 8661
 Hours of Operation: 7:00 a.m. - 3:00 p.m. (EST)

Help Desk

A ticketing system ensures a 24-hour response time:
www.antelopeaudio.com/en/support/help-desk

Please note that the device registration you did for MP8d currently does not automatically transfer to our ticketing system and you have to register again on this webpage.

Live Chat

Connect with a customer support agent directly via the website:

<http://www.antelopeaudio.com/en/support>

Click on Antelope Tab on the right-hand side of the webpage

Hours of Operation: 7:00 a.m. - 3:00 p.m. (EST)

Support Documents and Software

A web resource with all device manuals, datasheets and software:

<http://www.antelopeaudio.com/en/support/downloads>

Control Panel Newsfeed

The software control panel for Satori incorporates a newsfeed at the bottom, which displays all new updates and relevant information:



You Tube Page

Tutorial videos, interviews, user cases and promos for forthcoming products:

<http://goo.gl/yfOmZf>

Web Blog

Regular blog posts will update you on the latest user cases with the Satori:

<http://www.antelopeaudio.com/blog/en/category/blog-summary/>



***Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)***

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



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8-CHANNEL MIC PREAMP AND A/D



WWW.ANTELOPEAUDIO.COM

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