User's Manual

ANALOG AUTOMATED OPTO VALVE COMPRESSOR

A4-1B

Version 1.0 – June, 2024

CONTENTS

BEFORE YOU BEGIN

Congratulations on your purchase of the Antelope Audio A4-1B Compressor. This state-of-the-art compressor is modeled after the classic tube-based compression design, providing smooth, musical dynamic control with high-fidelity sound. The A4-1B features an all-tube amplification path, precision controls, and a robust sidechain circuit for versatile compression applications. Additionally, the A4-1B features motorized knobs for real-time automation and can be digitally controlled via a plugin inside a DAW.

Should you ever find yourself struggling, do not hesitate to contact our Customer Support team over the phone, live chat and our ticket system. You can also visit Antelope Audio on YouTube or the Knowledge Base as a trustful source of information.

We hope you will enjoy working with the A4-1B.

Best wishes,

Team Antelope

SYSTEM REQUIREMENTS

macOS

- Apple Mac 2016 or newer with USB or Thunderbolt 3/4 ports
- Minimum: macOS Mojave 10.14.6.
- Available storage space (Minimum 4 GB)
- Memory (RAM): 4 GB minimum (8 GB or more recommended)

Windows:
- PC computer with USB2.0/3.0/3.1 or Thunderbolt 3/4 ports
- Windows 10/11 (64-bit) with latest Microsoft Updates
- Available storage space (Minimum 4 GB)
- Memory (RAM): 4 GB minimum (8 GB or more recommended)
- CPU: Intel Core i5™ or AMD Ryzen (Higher recommended)

Additional Information:
- **Stable Internet connection is required to download and update your Antelope Audio Software**

ONLINE ACTIVATION INSTRUCTIONS

Please note that the mandatory device activation procedure requires an active Internet connection on your computer. Activating an Antelope Audio device offline is not possible.

The analog processing for your A4 product is fully functional without activation or being connected to a computer. However, activation is required to validate the warranty and gain access to the Synergy Core Native membership, including the A4-1B plugin.
This chapter contains the necessary instructions:

1. Open your internet browser and navigate to **https://en.antelopeaudio.com/login/**

2. Login to the Antelope Audio user area with your e-mail and password. If you don't have an account, visit **https://en.antelopeaudio.com/sign-up/** to create one.

3. Go to the Antelope Audio User Area and **link** your Antelope account with your **iLok** account.

If you don't have one, click "Create iLok account" and follow the steps.

ILok Account

User ID: Not Linked

CREATE ILOK ACCOUNT

LINK ACCOUNT

Automatic License Assignment

If you are entitled to a Synergy Core Native license or A4-1B perpetual license, it will be automatically assigned to your iLok account 5 minutes after the product is activated in step 8.

3. Click on the 'Activate New Device' button.

Activation

Step by step activation of your new device.

ACTIVATE NEW DEVICE

5. Click on '**A4-1B**' from the device list.

6. Download and install the Antelope Launcher application for Windows or macOS.

7. Open the Antelope Launcher application, enter the e-mail and password you used to login into the Antelope Audio user area and click 'Login'.

The device will be automatically recognized by the Antelope Launcher, and you can safely proceed to the next step.

8. Click on 'Activate.

9. Install Software bundle
After successful activation of your device, click on "Software Installation" This step is necessary to install the latest firmware and calibration panel for the A4-1B.

Plugin control installation
Go to the Plugins tab in the Antelope Launcher. You can install the A4 plugin individually or choose

the SCN Complete Bundle, which includes the full plugin library.
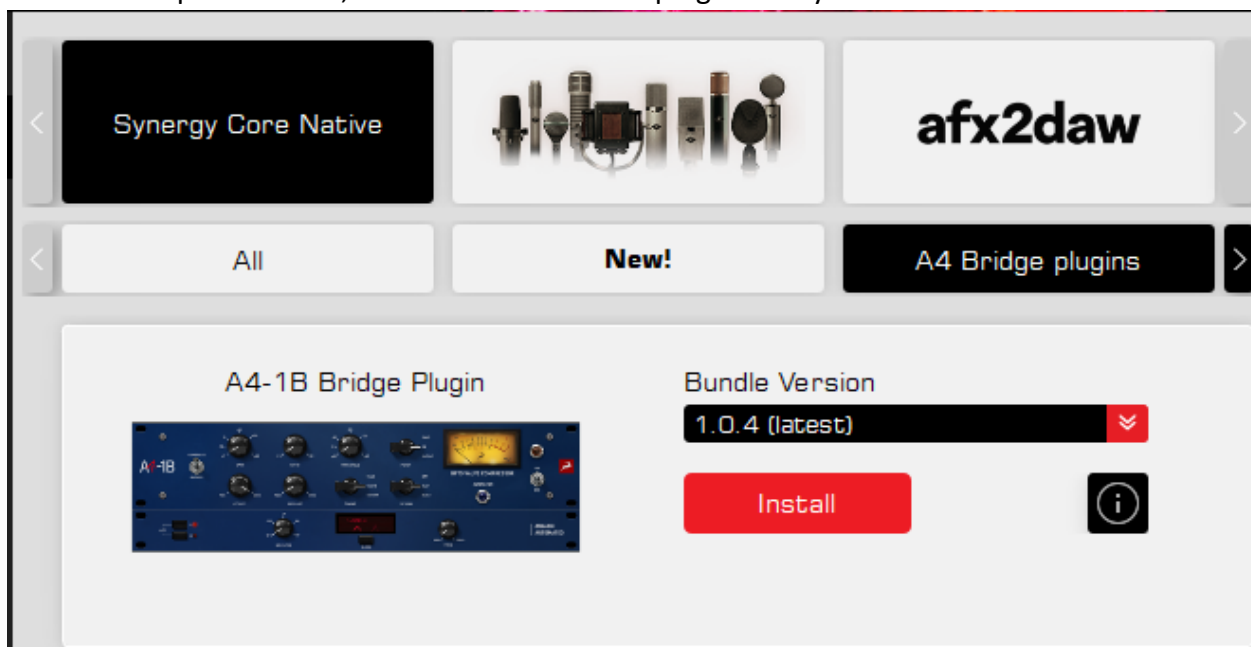
Make sure you have the latest iLok License Manager installed.

ANTELOPE LAUNCHER

The Antelope Launcher is a streamlined hub for managing your Antelope Audio products. From here you can install the A4-1B plugin (Plugins tab) as well as open the A4-1B calibration control panel (Devices tab).

To learn more on how to operate within it, please check the Antelope Launcher User Manual
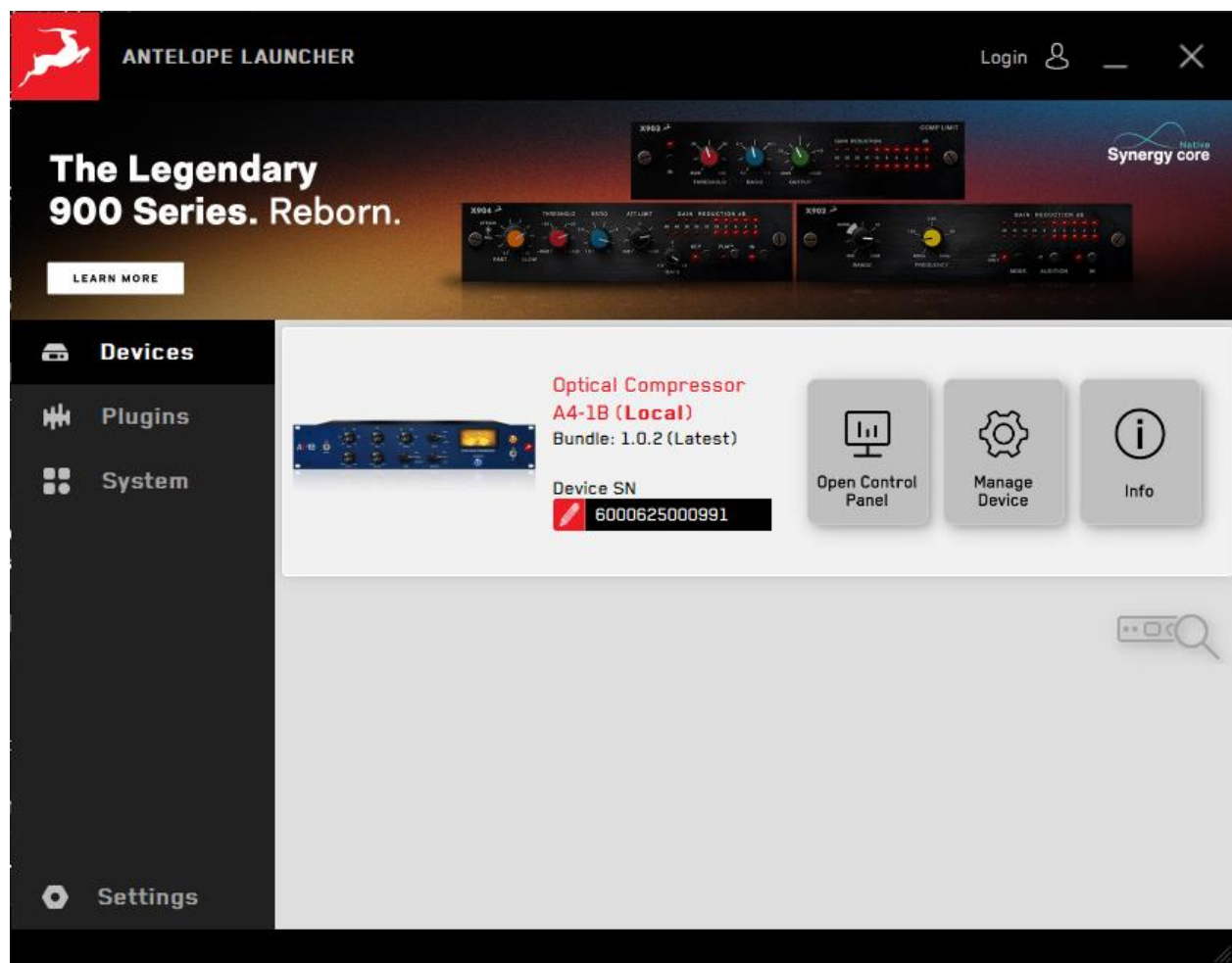
HARDWARE PANELS EXPLAINED

Front Panel

Gain

Used to compensate for gain loss introduced by compression. The **Gain** control comes **after** the compression stage, so it doesn't impact how compression is triggered.

- **Range**: Off to +30 dB
- **Tip**: Use this to set your final output level.

Ratio

Controls how much compression is applied once the signal passes the threshold.

- **Range**: Continuously variable from 2:1 to 10:1
- **Example**: At 2:1, a 10 dB input increase results in a 5 dB output increase.
-

Threshold

Sets the input level where compression begins. When your signal exceeds this point, gain reduction is applied.

- **Range**: +20 dBu to –40 dBu
- **Definition**: The point where gain is reduced by 1 dB.

Attack

Controls how fast the compressor responds to peaks after the input crosses the threshold.

- **Range**: 0.5 ms to 300 ms (continuously variable)
- **Use**:
  - **Fast attack**: Tames sharp transients (e.g., vocals, snares).
  - **Slow attack**: Lets initial transients pass (adds punch to instruments).

Release

Sets how long it takes for the gain to return to normal after compression.

- **Range**: 0.05 s to 10 s (continuously variable)
- **Use**:
  - **Fast release**: Keeps energy and bounce.
  - **Slow release**: Smooths out dynamics.

Timing

Determines how the compressor behaves in response to signal changes. Three selectable modes:

1. **Fixed**
   - **Attack**: 1 ms
   - **Release**: 50 ms
   - Attack and Release positions are not used
   - Simple, fast, consistent response.

2. **Hybrid**
   - **Attack** is fixed at 1 ms

- **Release** starts with a fast decay (like Fixed), then transitions to Manual setting

- Creates a **dual-stage release**, responsive to peak length. The the hybrid timing can act as an automatic release function with a constant fast attack time and fast release time for short peaks and a longer release times for longer peaks.

- Best for **overall mix compression**, maintaining clarity and smoothness

3. **Custom**
   - Attack: 0.5 ms to 300 ms

   - Release: 0.05 s to 10 s

   - Full control over envelope timing

Tips Settings by Application

These are only starting points for commonly used scenarios. Adjust **Gain** and **Threshold** according to your source's level.

Final Mix (Overall Compression)

- **Compression**: 3–4 dB

- **Mode**: Hybrid

- **Attack**: 2 o'clock

- **Release**: 10 o'clock

- **Ratio**: 9 o'clock

Vocals, Bass, Piano, Keys, Guitar

- **Compression**: 4–5 dB

- **Mode**: Custom

- **Attack**: 2 o'clock

- **Release**: 10 o'clock

- **Ratio**: Between 10 and 2 o'clock

Heavy Compression (Line Guitar, Piano)

- **Compression**: 10 dB
- **Mode**: Custom
- **Attack**: 7 o'clock (fast)
- **Release**: 1 o'clock
- **Ratio**: 3 o'clock

Drums (Kick & Snare)

- **Compression**: 2–3 dB
- **Mode**: Fixed
- **Ratio**: 9–12 o'clock
- **Use**: Keeps transients tight while controlling dynamic range

Meter

The analog **VU Meter** can display three different readings:

- **Input** – Pre-compression signal level
- **GR (Gain Reduction)** – Amount of gain reduction (deflects down from 0 VU)
- **Output** – Post-compression output level

SC Link
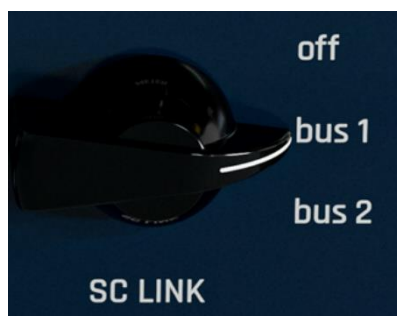
The A4-1B supports **sidechain linking** for stereo setups.

- Choose **Bus 1** or **Bus 2** to link units (signal is not passed on both simultaneously)
- **How it works**:
  - The unit applying the **most compression** dictates behavior for other
  - Set **threshold fully counterclockwise** on slave unit
  - Make sure **Gain and Ratio** settings are the same across all linked units to maintain stereo image

Compress / Bypass Switch
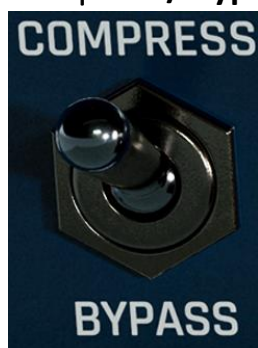
This switch removes the compressor from the signal path when toggled to **BYPASS**, providing a signal bypass.

- **Use**: Instantly A/B compare the compressed and unprocessed signal.

Automation light
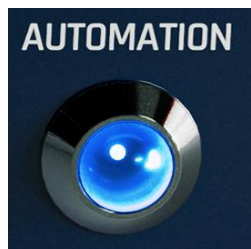
The automation light indicates when the A4-1B hardware is synced and working with the software control plugin inside your DAW or the calibration panel.

ON / OFF Switch

Set the switch to OFF to put the A4-1B into Standby mode. Note that this mode reduces power consumption to minimum, but it does not fully turn of the power supply for the compressor.

ON / OFF Light

The On/Off light indicates when the A4-1B hardware is turned on or or off. The light also blinks while the compressor boots up or during firmware update.

Rear panel

Power input

Standard IEC socket receives the mains power cable to energize the compressor.

USB connector
USB Type-C port facilitates connection to a computer for software control, automation, and preset management of the analog compressor.

Sidechain bus

Two TRS connectors (BUS 1, BUS 2) allow an external audio signal to control the compressor's behavior or enable stereo linking with another unit. When more than one unit is linked via the Bus Select input, both units compress accordingly with the highest peak signal produced by both sidechains.

Analog inputs

Balanced female XLR and TRS connectors (mirrored) serve as the primary input for the audio signal that will be processed by the compressor.

Analog outputs

Balanced male XLR and TRS connectors (mirrored) deliver the final compressed audio signal from the unit to other audio equipment.

CONTROL PANEL APPLICATION

Welcome to the A4-1B Windows/macOS Control Panel application, providing essential calibration tools to ensure an effortless workflow. The panel is part of the A4-1B bundle which is installed from the Devices tab in the Antelope Launcher. After successful installation, click "Open Control panel". The panel has 3 sections:

Calibrate VU Meter

The VU meter requires calibration if the needle does not point at "zero" when no audio is applied and the meter switch is set to GR. Click the "Calibrate" button to enter the calibration mode. After that, by rotating the Attack knob you can adjust the needle to a position where it points to "zero" again. After you have finished repositioning, click "Done".

VU Meter Reference Level

Set the input signal level at which the needle will point at "zero" when the Meter switch is set to "input".
For example, if the gear that sends signal to the A4-1B input has a level of +4dBu, set the Reference level
to 4 dBu.

Calibrate Opto Cell

The automatic opto-cell calibration ensures that the gain reduction will always be identical without fluctuations. When the calibration is activated, the A4-1B performs internal measurement of the gain reduction and compensates for any differences.

Click "Calibrate:" to start the process and wait a few seconds until the progress bar comes to an end. The unit is inactive, and it does not pass audio signal during the calibration process.

PLUGIN APPLICATION

The A4-1B plugin (VST3, AAX, AU) provides control over essential parameters on the hardware, enabling exclusive features like preset save and recall, A/B comparison and Sidechain filtering.

The plugin can control the following parameters:

- Attack
- Release
- Gain
- Ratio
- Threshold
- Sidechain filtering control
- A/B

Note!

- Loading the plugin will override the hardware settings, and it will load the last applied plugin settings or saved session.
- The Timing, Meter and SC Link, Bypass and On/Off switches can be adjusted via the hardware only. All changes from the hardware take effect on the plugin.
- The Blue Automation light indicates whether the hardware is connected to the plugin or not.

Plug-in control strip

The plug-in control strip allows the use of undo/redo, preset management, A/B comparison, scaling and easy access to useful articles.

Undo/Redo

Press the "Undo" button to reverse the last action done in the plug-in. The "Undo" can go back to the first action made in the current session.

Press the "Redo" button to reverse the effects of an earlier "Undo" action.

Preset strip

This strip allows Preset management and navigation.

- Click on the Preset strip to access the menu and save and load, browse through preset files. On the top of the menu there is a list of previously saved presets which can be quickly loaded, or you can browse your computer to load other saved presets.

Use the arrows to navigate and quickly load the available presets.

If there is a * sign next to the preset name, this means that the preset settings have been changed and different from the original .

Settings tab
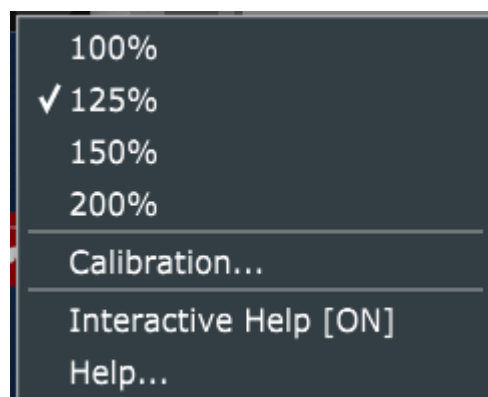
- The Settings tab allows the following:
  - Scaling of 100%, 125%, 150% and 200%
  - Calibration menu. These options mirror the functionalities from the control panel app. To learn the about the calibration options, please refer to the "Control Panel Application" paragraph.
  - Interactive help button, enabling tooltips across the plugin GUI.
  - Help button, providing quick access to useful online articles on the Antelope Audio support page.

A/B functionality

Make an A/B comparison by saving the current state of the plug-in.

- Click on "A" or "B" to automatically save the current settings of the plug-in. For example, adjust settings and select "A". Then, adjust the settings in a different configuration and select "B". Now, you can toggle between "A" and "B" to make a comparison between the two settings.

- Use the arrow button to copy the saved settings from "A" to "B" or from "B" to "A".

Sidechain filtering section

The sidechain filtering section provides flexible control over the type of filter, slop and frequency

SC Filter

The SC FILTER knob determines how the sidechain signal is filtered before it triggers the dynamics processing. This allows for more precise control over what frequencies influence the processor. The following options are available:

OFF:
- No filtering applied. The entire frequency spectrum is sent to the detector.

D-S (De-Essing):
- Engages a narrow bandpass filter tuned to sibilant frequencies (typically 5–8 kHz).
- Ideal for de-essing vocals, reducing harsh "S" or "T" sounds.

LP (Low-Pass):
- Only low frequencies are passed to the sidechain.
- Use this to make the compressor respond only to bass-heavy content like kick drums or bass guitar.

BP (Band-Pass):
 - Only a specific midrange frequency band is used for detection.
 - Helpful when you want the dynamics processor to react only to certain instruments (e.g., vocals or snares).

HP (High-Pass):
 - Removes low frequencies from the sidechain.
 - Commonly used to prevent the compressor from overreacting to bass, making it react more to mids/highs.

Slope button

Depending on the type of chosen filter, the slope allows to switch between 2nd and 4th order filters:
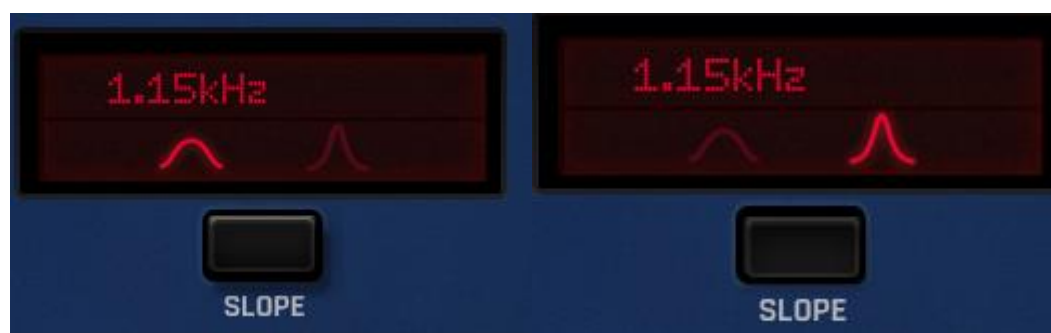
2nd order 4th order

Frequency

Adjust the sidechain filter frequency between 18Hz and 15kHz with 1Hz step accuracy:

A/B comparison

Click on "A" or "B" to automatically save the current settings of the plug-in.

For example,
adjust settings and select "A". Then, adjust the settings in a different configuration and select "B". Now, you can toggle between "A" and "B" to make a comparison between the two settings.

CUSTOMER SUPPORT INFORMATION

Antelope Audio Customer Support can be reached by the following means:

Online

Visit support.antelopeaudio.com

Phone
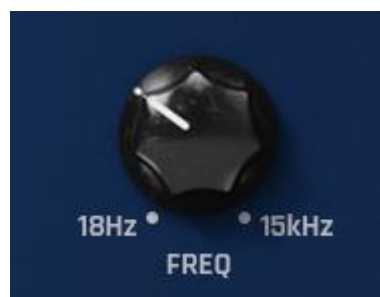
We are there for you around the clock, 21 hours/day, Monday to Friday.

North America +1-916-238-1643 01:00 a.m. – 10:00 p.m. (EST)

International +44 19 2593 3423 06:00 a.m. – 03:00 a.m. (GMT)

Live Chat

Live Chat is available during the following hours Monday to Friday

International 06:00 a.m. – 06:00 p.m. (GMT)

Note: If you're trying to reach us outside working hours, we advise you to file a ticket in our customer support system or leave a voice message.

Create a ticket

Click here to create a new ticket and we will assist you shortly.

Support by phone

Our customer support agents are available to assist you by telephone.

Live chat support

Click here for a real time chat with our customer support agents.

Support by email

Email us with your customer support inquiry and we will reach you shortly.

Remote support

Schedule a TeamViewer session with a customer support agent.

https://support.antelopeaudio.com/en/support/home

Additional Resources

- The **Antelope Audio YouTube channel** is home to various tutorial videos and endorser content which you may find helpful and inspiring.

- The **Knowledge Base** in our Customer Support section is good source of troubleshooting information, answers to commonly asked questions and Antelope know-how.

MY ANTELOPE AUDIO PRODUCT ISN'T WORKING

WHAT SHOULD I DO?

If you can't find a solution on your own, please get in touch with the Technical support department so we check if you are having a hardware-related issue.
If this is the case, we'll guide you through the repair process. If the product should be returned, a RMA number will be issued so we can begin the procedure.

What's an RMA number?

Issuing a RMA (Return Merchandise Authorization) number is required for any factory service or repair procedure. Please, don't attempt to send us your device without receiving a RMA number first, as the device will be returned and not serviced.

How do I get an RMA number?

The Antelope Audio Customer Support team is in charge of issuing RMA numbers. Visit support.antelopeaudio.com and get in touch.

After your RMA has been issued, you will receive an email with instructions on how to proceed.

RMA shipping information

Alongside the product you are returning please, include a letter containing your full name, shipping address, RMA number issued by our technical support team and a note with a short information about the technical issue.

Please use the original box if possible, because a worn out one will surely not protect your product sufficiently on its way to the Antelope Audio HQ. Additional cushioning materials in multiple layers between the unit and the box walls to prevent from shock, vibration and various tears and scratches.

Please remove any labels or old shipment markings it may have and ensure you add your shipping address inside the box in case the original shipment label becomes illegible during transportation.

The shipping costs are covered by the owner of the product. Antelope Audio will not cover any local customs charges.

We recommend using a courier service of your choice (e.g. DHL, UPS, FedEx). The package should be insured for its real value, marked as fragile and a tracking number should be provided. We do not recommend using standard mail delivery services.

Please, don't forget to add the RMA number, issued by the Antelope Audio technical support, on all shipping paperwork.

Antelope Audio cannot be held responsible for undelivered packages – lost or damaged on the way to the Antelope Audio HQ. For damage claims, please contact your shipping service provider of choice.

Antelope Audio cannot cover any repair costs for product damages due to poor packaging.

LIMITED WARRANTY POLICY

This is a non-transferable voluntary Limited Product Warranty provided to end-customers who have purchased Antelope Audio-branded hardware product (hereinafter referred to as "Product") from an authorized Antelope Audio re-seller.

For customers covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by Antelope Audio's Limited Warranty are in addition to, and not instead of, rights and remedies convened by such consumer protection laws and regulations and it does not exclude, limit or suspend buyer's rights arising from consumer law. Consumers have

the right to choose whether to claim service under the Antelope Audio Limited Warranty or under their consumer law rights.

All claims made under the Antelope Audio Limited Warranty will be governed by the terms set out in this warranty document.

Warranty Coverage

Antelope Audio warrants that the Product will be free from defects in material and workmanship for the period of 1 (one) year commencing on the date of purchase of Product by end-customer from authorized Antelope Audio's re-seller.

Except where explicitly prohibited by applicable local law, this warranty is limited to the original purchaser and is non-transferable. This warranty provides you with specific legal rights, and you may have additional rights that vary under local laws.

In general, this warranty means your Antelope Audio hardware product will operate in accordance with published technical specifications, as specified by its data-sheet, and in the operating environment for which it was intended for the length of the warranty period.

This version of the warranty applies to products purchased on or after January1,2018. For prior versions of the Antelope Audio limited warranty, please contact customer service.

Limited Factory Refurbished (B-stock) Warranty

Antelope Audio warrants products sold as "B-stock, Factory Refurbished or Open Box" to be free from defects in materials (unless otherwise stated in product description) and workmanship. Only products purchased from an authorized dealer or directly from Antelope Audio are covered by this Warranty.

The Limited Factory Refurbished (B-stock) Warranty is valid for the period of 6 (six) months, commencing on the date of purchase of Product, if local regulations do not require otherwise.

All warranty terms contained hereunder apply also to the B-stock Warranty, unless otherwise specified.

Remedies

Antelope Audio's entire liability and your exclusive remedy for any Antelope Audio Product that is not operating in accordance with its published technical specifications is at Antelope Audio's discretion:

1) to repair the Product at Antelope Audio's expense using new or equivalent-to new refurbished parts in good working condition; or

2) to replace the Product at Antelope Audio's expense with a product with equivalent functionality formed from new and/or equivalent-to new refurbished parts in good working condition, or

3) to refund the price paid. Should Antelope Audio decide to refund the price paid, it may deduct from the paid Product's price any damages caused to the Product; where, within fourteen (14) days of the expiration of the warranty period,(i) Antelope Audio has received written notice of any nonconformity;(ii) after Antelope Audio's written authorization, customer has returned the nonconforming product to the designated place; and (iii)Antelope Audio has determined that the Product is nonconforming and that such non conformity is not the result of any of the exclusions designated below.

These warranty obligations are conditioned upon the hardware being returned to the original place of purchase, or another place as directed by Antelope Audio, with the original sales receipt attached. You will be required to pay shipping and handling charges for returning the product. You may be required to pay any other applicable tariffs, duties, taxes, or other fees with regard to returning the products.

Any repaired or replacement Product will be warranted for the remainder of the original warranty period.

Obsolete or Discontinued Products

An obsolete or discontinued product will be repaired or replaced with the same product if available. If Antelope Audio is unable to replace your obsolete or discontinued product with the same product, Antelope Audio will replace the obsolete or discontinued product, in its sole discretion, with a product having similar function and capacity.

Exclusions

This warranty does not cover problems or damage resulting from, but not limited to, any of the following: (i)Wear and tear associated with normal use; (ii)Any modification,
abuse, accident, disassembly, misapplication, misuse, negligence, acts of God, accident; (iii)Unauthorized repair or attempted repair by anyone other than Antelope Audio or someone authorized by Antelope Audio to do warranty work; any unauthorized repairs will void this warranty(iv)Any improper operation, maintenance or installation, including any use not in accordance with any supplied product instructions; (v)Connection to any improper voltage supply; (vi)Use of consumables or spare parts not supplied by Antelope Audio, except where such restriction is prohibited by applicable local law; (vii)Any other cause which does not relate to a Product defect in materials or workmanship.

The warranty does not apply to any Products which have been subject to misuse, neglect, accident or modification or which have been soldered or altered such that they are not capable of being tested under normal test conditions.

This warranty does not cover (i) any counterfeit products, i.e. Products that Antelope Audio, at its sole discretion, determines were not manufactured by Antelope Audio or any of its authorized manufacturing partners; (ii) Products purchased from a person or entity which is not an authorized dealer or re-seller of Antelope Audio; (iii)Product sold "as is" or "with all faults", to the extend permitted by local law.

This warranty is not valid in case any manufacturer label(s), serial numbers, date stamp(s) or warranty sticker(s) has been altered or removed from the Product.

Limitation of Liability

ANTELOPE AUDIO SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL

DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, REVENUE, OR DATA

(WHETHER DIRECT OR INDIRECT) OR COMMERCIAL LOSS FOR BREACH OF ANY EXPRESS OR IMPLIED

WARRANTY ON YOUR PRODUCT EVEN IF Antelope Audio HAS BEEN ADVISED PREVIOUSLY OF THE

POSSIBILITY OF SUCH DAMAGES. Some local laws do not allow the exclusion or limitation of special,

indirect, incidental or consequential damages, so this limitation or exclusion may not apply in your

jurisdiction.

ANTELOPE AUDIO WILL NOT ASSUME OR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR IT ANY

OTHER LIABILITY IN CONNECTION WITH ITS PRODUCTS.

Data Recovery

In the event of data loss using Antelope Audio storage devices, Antelope Audio is not responsible for

backing up or recovering any data that you may have lost.

No Other Warranties

No Antelope Audio employee, dealer, re-seller, or other agent is authorized to make any modification,

extension, or addition to this warranty.

How to Make a Warranty Claim

Valid warranty claims should be processed through your point of purchase. Please also verify the return

policy directly with the retailer where you purchased your product. Any warranty claims that cannot

reprocessed through your original point of purchase should be addressed directly to Antelope Audio. Our

customer service contact information can be found on the web or in the documentation included with

your Product.

Returning Your Product

In the event that you need to return your Antelope Audio products for repair or replacement, Antelope Audio will provide you with a Return Merchandise Authorization Number (RMA#) as well as return instructions. Do not return your product without prior approval from Antelope Audio. Any product returned without a valid unique RMA# will be refused and returned to the sender at the sender's expense. To avoid problems at the time of receipt, clearly write your RMA# on the outside of the package and include a copy of your RMA confirmation-mail within the package.

In certain situations, for in-warranty units, we may (entirely at our opinion) offer you a temporary replacement unit, provided that we have such on stock in your state. To request a temporary replacement unit, a valid credit card must be provided to secure the new replacement unit for shipping prior to Antelope Audio receiving the defective one.

Request a Return Material Authorization Number (RMA#)

Please follow these steps to obtain an RMA number:

(I) For end user customers, submit a claim online at: support.antelopeaudio.com. For business to business (B2B) / Direct customers of Antelope Audio please email us at techsupport@antelopeaudio.com

(ii) A valid proof of purchase is required for RMA processing (i.e. receipt, invoice, etc). Antelope Audio will provide you with the RMA number within 2 working days as of the claim submission date.

RMA Return Addresses

We have multiple RMA receiving locations worldwide. Your RMA confirmation will specify the specific return address you must use when sending your RMA package. Any packages received at an unauthorized location may be refused and returned to the sender at the sender's expense.

Products Lost or Damaged During Transit

The original packaging material should be used to pack the product for return; if the original packaging is not available, you should use such materials that provide the same or greater protection to the product.

All packages that arrive with any external damage or appear inadequately packed will be refused and returned to the sender at the sender's expense. We are not responsible for damage incurred during shipping to our RMA receiving locations or for lost or stolen products.

Company information

Antelope Audio is the trade name, under which the company Elektrosfera ltd., registered under the legislation of the Republic of Bulgaria with UIN: 131052590, is doing business and is worldwide known. Elsewhere in this document where the trade name **Antelope Audio** is used shall refer to Elektrosfera ltd., with address of management: Tsarigradsko Shose Blvd., 7th km, Building of BIC IZOT, floor 6, Mladost region, Sofia, Bulgaria.

If any term hereunder is held to be illegal or unenforceable, it shall be severed from this warranty and the legality or enforce ability of the remaining terms shall not be affected.

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!
- 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 instead.
- 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.
- Never operate the unit without this earth connection.
- 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.
- Both occasional and continued exposure to high sound pressure levels can cause permanent ear damage via headphones and monitors.
- The device is designed to operate in a temperate environment, with a correct Operating Temperature of 0-50° C, 32-122° F.

TECHNICAL SPECIFICATIONS

Maximum output level: +24 dBu
Maximum input level: +24 dBu
Noise level: < -80 dBu

Input impedance: 10 kOhms differential
Output impedance: <60 Ohm

Frequency response**:** 20 Hz to 20 kHz ±1 dB

Power: 95 V/245 V, 50-60 Hz:

Dimensions – device (approx.)
Height: 88 mm (3.47 in)

Width: 483 mm (18.98 in)
Depth: 252 mm (9.92 in)
Weight: 4.4 kg (9.70 lbs)

Dimensions – box (approx.)
Height: 140 mm (5.51 in)
Width: 640 mm (25.20 in)
Depth: 350 mm (13.78 in)
Weight: 6.5 kg (14.33 lbs)

Operating temperature
0-50°C, 32-122°F