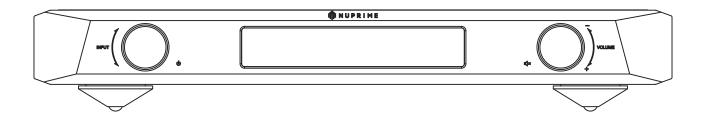


# **Evolution DAC-2 User Manual**









### FCC Notice - Declaration of Conformity Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- •Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Only peripherals complying with the FCC class B limits may be attached to this equipment.

Changes or modifications made to this equipment, not expressly approved by us or parties authorized by us could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for customers: The following information is only applicable to equipment sold in countries applying EU Directives.

#### **EU Declaration of Conformity**



Hereby, NuPrime Audio, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

The manufacturer of this product is NuPrime Audio, Inc., 1712 Pioneer Ave. Ste 1817, Cheyenne, Wyoming 82001, USA The Authorized Representative for EMC and product safety is NuPrime Audio, Inc., 1712 Pioneer Ave. Ste 1817, Cheyenne, Wyoming 82001, USA.

For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

#### For customers in Europe



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

### **Safety Instructions**

There are two categories of Safety Instructions included in this manual:

- •Product Warnings, (i.e., what must never be done to assure avoiding those hazards that could cause bodily injury or property damage); and
- •User Directions (i.e., what must always be done to assure the safe use of your device).

The Safety Instructions contained in this manual have been categorized in accordance with the seriousness of the potential hazards through the use of Signal Words. Those Signal Words, and their intended meanings, are as follows:

**DANGER:** Indicates that a failure to observe the Safety Instructions could result in death or catastrophic bodily injury.

**WARNING:** Indicates that a failure to observe the Safety Instructions could result in serious bodily injury.

**CAUTION:** Indicates that a failure to observe the Safety Instructions could result in minor bodily injury or property damage. **NOTE:** Designates important information that relates to activities and/or conditions that might result in loss of data and/or damage to your device.

#### Safe Use and Operation of Your Device

This equipment emits stray RF energy and will interfere with the reception of signals by airborne electronic navigational devices or medical devices. Do not operate this equipment near any sensitive medical devices.

#### WARNING: Use only grounded AC power cords

Always immediately disconnect the power to the equipment in the event the device emits an unusual odor or sound or generates smoke.

**WARNING:** Never attempt to disassemble, repair or make any modification to your device. Disassembly, modification or any attempt at repair could cause bodily injury or property damage, as well as damage to the device itself.

**WARNING:** Your device is not a toy. Never allow children to play with your device. Misuse, rough or improper handling of your device by children could result in serious bodily injury for any of the enumerated safety warnings in this manual. In addition, always keep all accessories and components out of the reach of small children as small parts might present a choking hazard. Seek immediate medical attention if choking occurs or if any small part has been swallowed.

**CAUTION:** Never raise the sound volume level too high when using your device with earphones. An excessive sound volume level could cause damage to your hearing.

**WARNING:** To reduce the risk of fire or electric shock, do not expose the unit to moisture or water.

Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read all the instructions before connecting or operating the component.

Keep this manual so you can refer to these safety instructions.

Heed all warnings and safety information in these instructions and on the product itself. Follow all operating instructions. Do not use this unit near water.

You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the unit. Do not place the unit on a bed, sofa, rug, or similar surface that could block the ventilation openings. If the unit is placed in a bookcase or cabinet, there must be ventilation of the cabinet to allow proper cooling. Keep the component away from radiators, heat registers, stoves, or any other appliance that produces heat.

The unit must be connected to a power supply only of the type and voltage specified on the rear panel.

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable.

Do not route the power cord where it will be crushed, pinched, bent, exposed to heat, or damaged in any way. Pay particular attention to the power cord at the plug and where the cord exits the back of the unit.

The power cord should be unplugged from the wall outlet during a lightning storm or if the unit is to be left unused for a long period of time.

Immediately stop using the component and have it inspected and/or serviced by a qualified service agency if:

- •The power supply cord or plug has been damaged.
- •Objects have fallen or liquid has been spilled into the unit.
- •The unit has been exposed to rain.
- •The unit shows signs of improper operation.
- •The unit has been dropped or damaged in any way.

#### 1. Introduction

NuPrime Evolution DAC-2 utilizes dual ESS Technology 32-bit audio DAC ESS9038Q2M to decode independently left and right channels to improve channel separation and reduce overall noise. It supports nine digital inputs and two analog inputs for complete system flexibility. The power circuit of Evolution DAC-2 has been redesigned from the ground up using C-Core transformers to meet the highest performance requirement of the NuPrime Evolution Series.

#### **Ultra Clean Power Circuit**

C-Core Transformer and Large Capacitor Bank

The filtered AC power is then fed to the AC power supply that utilizes C-Core transformers which has less stray flux than conventional ring type transformers. The stainless steel enclosures for the power supply provides shielding to minimize the transformer noise interference affecting other sensitive circuitry.

A large capacitor bank (around 60,000uF) using specialized capacitors, supplies ample and stable power to the analog and digital circuitry.

### A Reference Class Preamp

The EVO DAC-2 includes a reference class preamp that utilizes Nisshinbo Micro Device's MUSES8820 operational amplifier and MUSES72320V electronic volume as its preamplifier circuit architecture. The MUSES8820 is optimized for high-end audio equipment, producing the finest sound quality that emulates the live performance of an orchestra in a hall. On the other hand, the MUSES72320 is a 2-channel electronic volume control designed with advanced circuitry and layout for high-end audio applications. It has low noise and distortion characteristics and utilizes a resistance ladder circuit for highly linear volume control of hi-fi audio systems. Together, these components make the EVO DAC-2 an exceptional preamp, capable of producing a high-quality sound that accurately captures the nuances and details of a live performance.

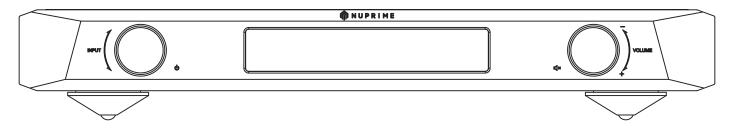
#### 2. Features

- NuPrime PSRC IC chip provides sample rate up/down conversion processing, from PCM 44.1kHz to PCM 768kHz and DSD64 to DSD512 (including PCM to/from DSD).
- A proprietary NuPrime implementation capable of decoding DoP formats via coaxial and optical inputs (to support NuPrime source and server devices that are able to output DoP stream in addition to S/PDIF).

- Output Level variable or fixed mode.
- Analog outputs channel setting (both outputs can be set to Right, Left, R + L or L + R)
- · Display brightness adjustment.
- Nine digital inputs and two analog input for complete system flexibility. Full microprocessor control with memory retention for all inputs.
- Custom designed non-linear volume curve.
- USB Asynchronous transfer mode.
- USB Supports DSD native playback by ASIO and DoP method. DSD is decoded natively with the same sample rate as the input source.
- All digital Supports native MQA decode.
- · Individually adjustable volume on each input for precise level matching of sources
- Exclusive driver software for Windows, standard driver software for Mac
- NuPrime vibration-free isolation feet.
- Available in black or silver anodized aluminum finish.

### 3. Quick Start Guide

#### 3.1 Front Panel



Power, Input and Menu Selection:

Press briefly to Turn On or put in Standby mode.
Turn the knob to switch between inputs.
In menu mode, turn the knob to switch menu item.

In menu mode, briefly press to accept load default function.

Mute, Volume, and Menu Value Selection:

Briefly press to Mute/Unmute. Briefly press for 3 sec enter Menu / exit Menu. Turn the knob to adjust volume.

In menu mode, turn the knob to switch item value.

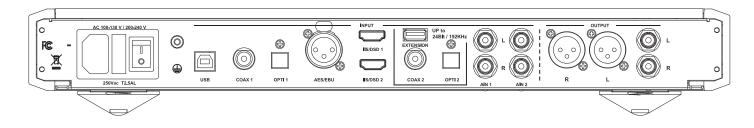
#### STANDBY LED:

LED lights up, indicating the device in standby.

#### **DISPLAY OFF LED:**

LED lights up, indicating the display is off.

#### 3.2 Rear Panel



#### Digital Inputs:

USB: USB Type-B port for connecting to PC USB audio supporting PCM up to 768kHz, DSD 512, and MOA formats.

IIS/DSD: With HDMI cable to transfer IIS and DSD data from source devices, Accept up to PCM 384KHz,DSD256 and MQA format. Do not connect to the HDMI output of Set Top Box or BD / DVD player.

Coaxial: COAX1 Supports PCM 44.1KHz ~ 384KHz / DOP 64, 128 and MQA.

COAX2 Supports PCM 44.1KHz ~ 192KHz / DOP 64 and MQA.

Optical: Both OPT1 and OPT2 digital inputs supports PCM 44.1KHz ~ 192KHz / DOP 64 and MQA.

AES/EBU: Supports PCM 44.1KHz ~ 384KHz / DOP 64, 128 and MQA.

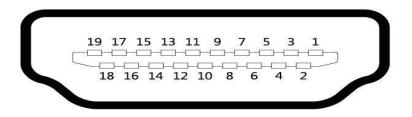
EXTENSION: Supports PCM 44.1KHz ~ 192KHz.

Analog: Two Stereo RCA

Ground terminal: Chassis ground.

AC: Connect the supplied mains lead to the AC IN (115V or 230 V) terminal on the rear of the DAC.

### IIS / DSD Pin specification:



• PIN1 : SDATA - / DSD R-

• PIN2: GND

• PIN3 : SDATA + / DSD R+

• PIN4 : BCK + / DSD CLK +

• PIN5 : GND

• PIN6: BCK - / DSD CLK -

• PIN7 : LRCK - / DSD L -

• PIN8 : GND

• PIN9 : LRCK + / DSD L +

• PIN10 : NC

• PIN11 : GND

• PIN12 : NC

• PIN13 : NC

• PIN14 : NC

• PIN15 : NC

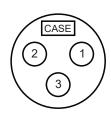
• PIN16: NC

• PIN17 : GND

• PIN18 : NC

• PIN19 : NC

AES / EBU (XLR FEMALE) Pin specification:



Pin 1: Ground

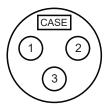
Pin 2: Positive (+)

Pin 3: Negative (-)

### **Analog Outputs:**

1x Stereo Audio Output (RCA)

1x Balanced Stereo Audio Output (XLR MALE)



• Output Phase: Normal

Pin 1: Ground

Pin 2 : Positive (+)

Pin 3 : Negative (-)

• Output Phase: Invert

Pin 1: Ground

Pin 2 : Negative (-)

Pin 3 : Positive (+)

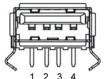
AC Inlet Voltage Selector:



Make sure that the AC voltage selector switch at the bottom of the unit is switched to the appropriate voltage for your country. All EVO DACs are shipped with the switch set to 230V AC in order to prevent accidental damage.

#### **NuPrime Extension Port**

NuPrime defined a USB Type-A port to carry S/PDIF data and 5V power for connecting to an external wireless audio receiver using just one standard USB cable. The NuPrime Omnia WR-2, BTR-HD, Stream Mini, and Stream Mini DAC wireless receivers have a micro USB port compatible with this specification.



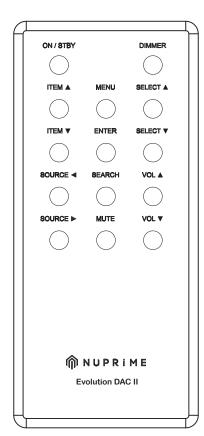
PIN1: +5V OUT

PIN2: +5V OUT

PIN3 : SPDIF

PIN4: GND

#### 3.3 Remote Control



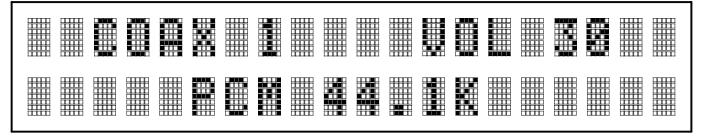
- ON / STBY: Toggle power STANDBY and ON
- DIMMER: Toggle between 4 dim presets
- ITEM ▲▼: Navigate Menu item
- MENU: Enter / exit the Setup Menu
- ENTER: Only to confirm loading default function.
- SELECT ▲▼: Navigate item value
- SOURCE **◄►** : Digital input selection
- SEARCH: Quickly search for input with active signal
- MUTE: Mute / Unmute audio
- VOL▲▼: Increase / Decrease volume

#### **Battery Replacement:**

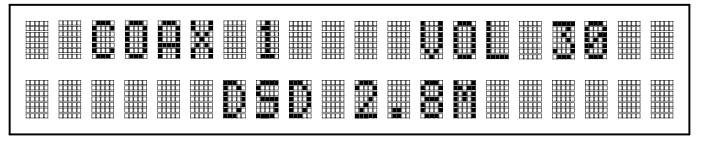
To change the battery, please remove the 4 screws and the bottom cover to reveal the battery casing.

### 4. Front Panel Display

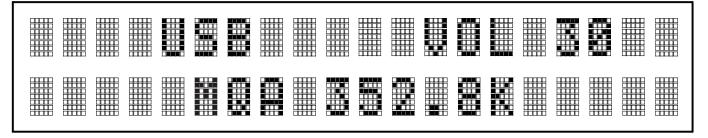
4.1 PCM sample rate



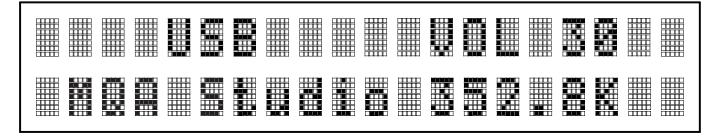
4.2 DSD sample rate



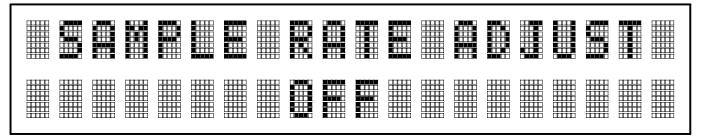
4.3 MQA original sample rate



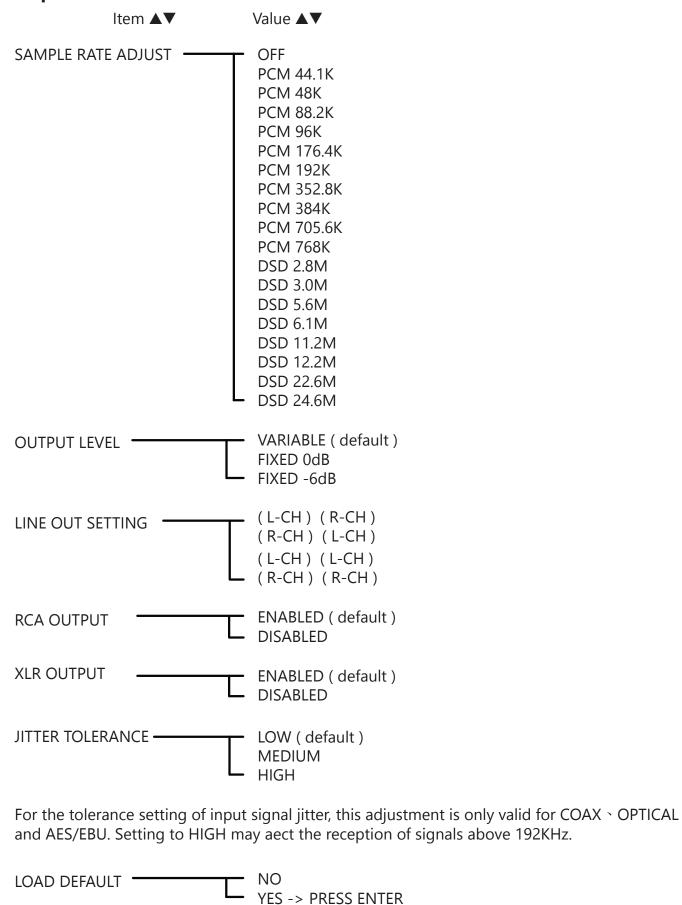
4.4 MQA Studio original sample rate



4.5 Setup Menu



### 5. Setup Menu structure



### 6. MQA - Master Quality Authenticated

The EVO DAC-2 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording. The front panel display indicates if the MQA stream is detected. 'MQA' or 'MQA Studio' indicates that the product is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. "MQA Studio' indicates it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner. For more about MQA please visit: http://www.mqa.co.uk/

'MQA and the Sound Wave Device are registered trade marks of MQA Limited.© 2016'

Note: During MQA playback, the Sample rate conversion function will be disabled and force to off mode also digital filter function will be disabled and force to MQA custom filter mode.

### 7. Technical Specifications

#### DIGITAL

- USB : Type B 2.0 Hi-Speed, Windows / Supports PCM 44.1KHz ~ 768KHz / DSD 512 and MQA. Type B 2.0 Hi-Speed, Mac / Supports PCM 44.1KHz ~ 768KHz/24Bit and DOP 256.
- COAXIAL 1 : Supports PCM 44.1KHz ~ 384KHz / DOP 64, 128 and MQA.
- OPTICAL 1 : Supports PCM 44.1KHz ~ 192KHz / DOP 64 and MQA.
- AES / EBU : Supports PCM 44.1KHz ~ 384KHz / DOP 128 and MQA.
- IIS/DSD 1& 2 : Supports PCM 44.1KHz ~ 384KHz and DSD 256 data streams.
- EXTENSION : Supports PCM 44.1KHz ~ 192KHz/24Bit.
- COAXIAL 2 : Supports PCM 44.1KHz ~ 192KHz / DOP 64 and MQA.
- OPTICAL 2 : Supports PCM 44.1KHz ~ 192KHz / DOP 64 and MQA.

NOTE: DOP (DSD over PCM).

#### **ANALOG**

Analog Inputs Connectors :

AN1 & AN2: RCA unbalanced Inputs

Input Impedance: 47KOhm

Analog Outputs Connectors :

RCA unbalanced outputs: 4 Vrms.

XLR balanced outputs: 8 Vrms.

Output Impedance: < 50 Ohm.

Frequency response: 20 Hz - 20 KHz / ±0.3 dB.

SNR: > 110 dB.

THD+N: < 0.0005%.

### **GENERAL**

- USB Audio Firmware: upgradable via USB DFU tool.
- Power Supply: AC voltage selector switch at the bottom of the unit, 115V or 230V.
- Dimensions [W x H x D]: 430 mm x 55 mm x 315 mm.
- Weight: 5.2Kg
- Power consumption: 13.5W (0.9W Standby)

### 8. Package Content

- The NuPrime EVO DAC-2 (Black or Silver)
- Aluminum remote
- Power cord

### **NuPrime's Limited Warranty and Limitation of Liabilities**

#### **ADDITIONAL RIGHTS**

FOR CONSUMERS, WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVINCE. THIS LIMITED WARRANTY IS GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COUNTRY IN WHICH THE PRODUCT PURCHASE TOOK PLACE.

## LIMITED WARRANTY THREE (3) YEARS

For a period of TWO (2) YEARS from the date of retail purchase by the original end-user purchaser ("Warranty Period"), NuPrime warrants (in) this product against defects in materials and workmanship, and (ii) that each Product, unmodified and under normal use and conditions, will substantially comply with NuPrime' applicable written technical documentation for the Product. NuPrime reserves the right to make substitutions and modifications from time to time in the specifications of Products sold by NuPrime, provided that such substitutions or modifications do not materially affect overall Product performance.

If a hardware defect exists and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, NuPrime will (1) repair the hardware defect at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. NuPrime may request that you replace defective parts with user-installable new or refurbished parts that NuPrime provides in fulfillment of its warranty obligation. A replacement product/part assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes NuPrime's property. When a refund is given, your product becomes NuPrime's property.

#### **OBTAINING WARRANTY SERVICE**

If you purchased the product in the U.S., deliver the product, at your expense, to any NuPrime Service Center located in the U.S. If you purchased the product outside of the U.S., deliver the product to any NuPrime Authorized Importer in the country where you purchased the product. Be aware, however, that not all countries have NuPrime Authorized Service Providers ('NASP') and not all Authorized Service Providers outside the country of purchase have all parts or replacement units for the product. If the product cannot be repaired or replaced in the country it is in, it may need to be sent to a different country or returned to the country of purchase at your expense for repair or replacement. If you seek service in a country that is not the country of original purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. Where international service is available, NuPrime may repair or exchange defective products and parts with comparable products and parts that comply with local standards.

You can always deliver the product to NuPrime's U.S. main service center for obtaining warranty service, however, you may have to pay for return shipping cost.

NuPrime may send you user-installable new or refurbished replacement product or parts to enable you to service or exchange your own product ("DIY Service"). Upon receipt of the replacement product or part, the original product or part becomes the property of NuPrime and you agree to follow instructions, including, if required, arranging the return of original product or part to NuPrime in a timely manner.

When providing DIY Service requiring the return of the original product or part, NuPrime may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, NuPrime will cancel the credit card authorization, so you will not be charged for the product or part and shipping costs. If you fail to return the replaced product or part as instructed or the replaced product or part is not eligible for warranty service, NuPrime will charge the credit card for the authorized amount.

#### **EXCLUSIONS AND LIMITATIONS**

This Limited Warranty applies only to hardware products manufactured by or for NuPrime that can be identified by the "NuPrime" trademark, trade name, or logo affixed to them. The Limited Warranty does not apply to any non-NuPrime hardware products or any accessories, even if packaged or sold with NuPrime hardware. Non-NuPrime manufacturers, suppliers, may provide their own warranties. Other accessories distributed by NuPrime under the NuPrime brand name are not covered under this Limited Warranty. This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication, liquid contact, fire, earthquake, non-NuPrime products, or other external causes; (b) to damage caused by service performed by anyone who is not a NASP; (c) to a product or a part that has been modified without the written permission of NuPrime; (d) to consumable parts, such as batteries, or protective coatings designed to diminish over time unless failure has occurred due to a defect in materials or workmanship; (e) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the product; or (g) if any NuPrime serial number has been removed or defaced.

Important: Do not open the hardware product. Opening the hardware product may cause damage that is not covered by this warranty. Only NuPrime or a NASP should perform service on this hardware product.

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Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state or province.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER.

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