NuPrime
HD-AVA/AVP

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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

$C\epsilon$ 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.

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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.

Table of Contents

1. Introduction

The NuPrime HD-AVA/ HD-AVP HT preamp/processor delivers ultra-high resolution USB audio decoding at PCM 384K or DSD256, 24bit/192kHz digital audio, hard-disk media playback, wireless streaming and superb 4K HD video. There are six HDMI, two optical, two coaxial, four stereo analog, one USB Audio and three USB Host (for storage drive) inputs. The audio outputs include 7.1-channel RCA, 2-channel Zone1, Zone2, Zone3, USB DAC analog out, and 4-channel XLR / stereo speaker out. A built-in Wi-Fi network supports Airplay, DLNA and Miracast. Two HDMI outputs can be selected from any of the six inputs. The HD-AVA/HD-AVP easily accommodates the most complex home theater system configurations.

Audio Features:

1. Supporting the latest HD audio decoding, including Dolby TrueHD, Dolby Digital Plus, DTS Master, DTS Hi-Res.
2. SD audio decoding compatible with Dolby Digital (EX), DTS, DTS ES (D6.1, M6.1), DTS 96/24, up to 192k PCM for 7.1 CH etc.
3. Supporting matrix technology such as Dolby Pro Logic IIz, DTS Neo:6 etc.
4. Intelligent room acoustic scanning feature
5. Powerful bass management feature for individually managing front, center, surround, and rear speakers over a cross-over filter. Increasing the performance of single / double post positioning devices.
6. Comes with an equalizer of eleven different options and settings.
7. Comprehensive cross-over design.

Video Features:

1. Supporting HDMI 1.4
2. 6 HDMI inputs, 2 HDMI outputs: HDMI 1/ HDMI 2/ HDMI 3/ HDMI 4 support up to 4K, HDMI 5 / HDMI 6 supports up to 1080P.
3. HDMI supports up to 4K, YUV, RGB, supporting DVI mode, supporting HD audio, 8 CH LPCM.
4. Supporting 3D video playback
5. Supporting HDMI CEC control management
6. Supporting HDMI ARC audio return
7. Video input compatibility: HDMI/DVI, 480P, 576P, 720P50, 720P60, 1080i 50, 1080i 60, 1080P 50, 1080P 60, 1080P 24, 2160P 30, 2160P 24.
8. Including hard-disk player, 3 USB ports (1 in front panel 2 in back panel), capable of playing audio/video directly from USB drive or hard-disk drive.

The HDMI 1.4 specification supports multiple 4K formats:
3840 pixels wide by 2160 pixels high @ 24Hz | 25Hz | 30Hz
4096 pixels wide by 2160 pixels high @ 24Hz
 Below is the comparison of HDMI 1.4 and HDMI 2.0. HDMI 2.0 is not supported.
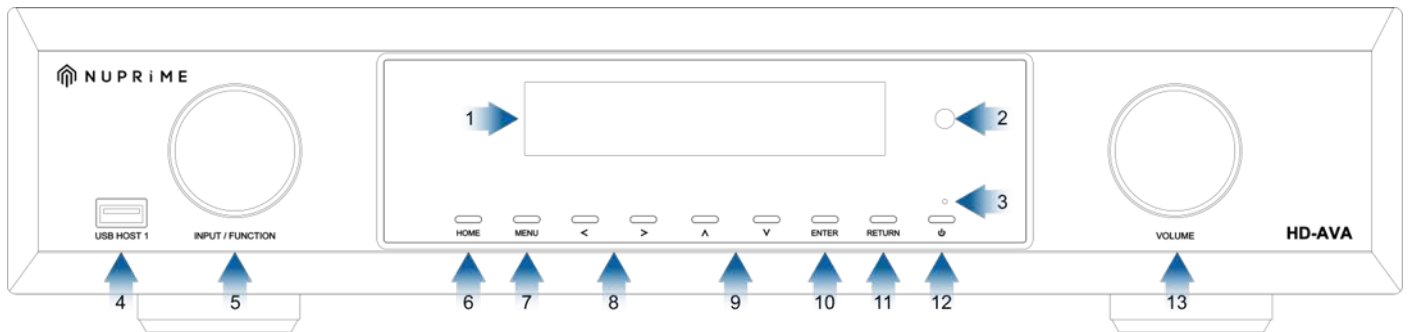
(Grey color represents HDMI 1.4)

	8bit	**10bit**	**12bit**	**16bit**
4K@24 **4K@25** **4K@30**	RGB 4:4:4	**RGB** **4:4:4**	**RGB** **4:4:4** 4:2:2	**RGB** **4:4:4**
	RGB	**4:2:0**		**4:2:0**

| 4K@50 4K@60	4:4:4 4:2:0		4:2:2 4:2:0	

2. Front Panel Overview

HD-AVA/HD-AVP

1. VFD Display: On screen display for various information
2. Remote Control signal receiver
3. Stand by indicator: LED lid up when HD-AVA is in standby.
4. USB Host 1: For connecting to USB thumb drive or hard-drive storage.
5. Input Selection: Input selection by turning the knob. (TV, Player, HDMIs, Tuner, Coaxial, Optical, Analog, USB)
6. Home button: opens up on-screen Home menu.
7. Menu button: Access menu settings.
8. Left and Right selection cursor: In Player input selection and menu, move cursor according to the direction on the on-screen menu. Toggle input channel selection if not in Player input selection mode.
9. Up and Down selection cursor: Moving up and down in menu.
10. Enter: confirm selection on the on-screen menu
11. Return: return to the previous screen on the menu
12. Power button: Power on/off button
13. Volume Control: decrease and increase volume, ranging from -∞ ~ +15dB, 0.5dB increments.
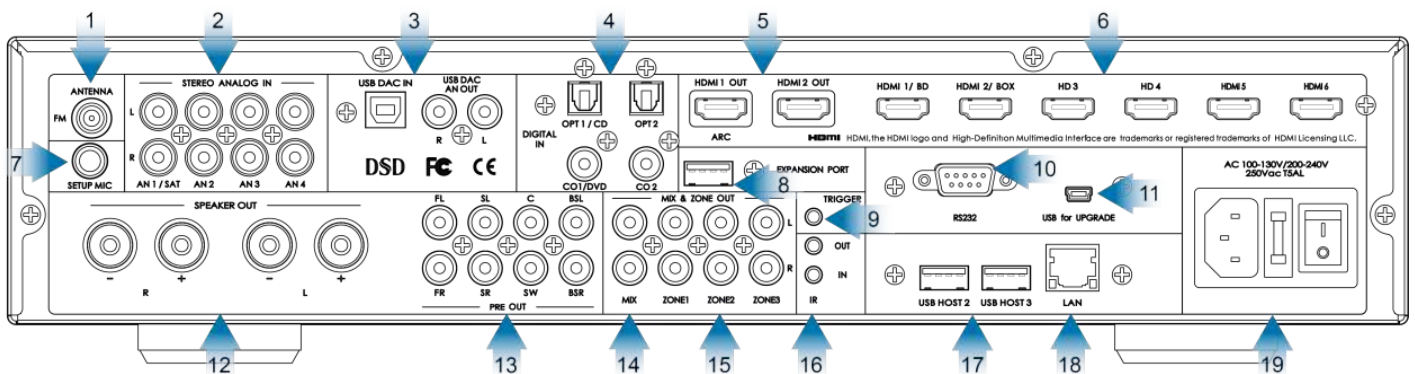
On-Screen Display

1. Video Input source information: Displays the selected input source,
   Note: Factory default is set at HDMI 1 input.
2. Audio input source information: Displays the source of audio signal.

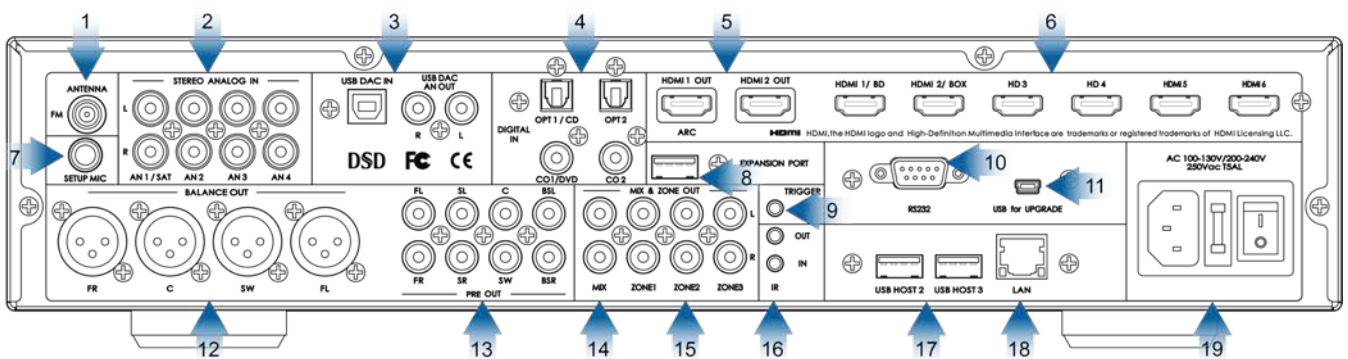3. Volume information: Display current volume information.
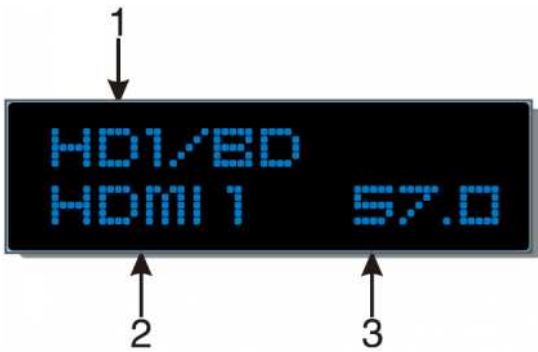
3. Rear Panel Overview
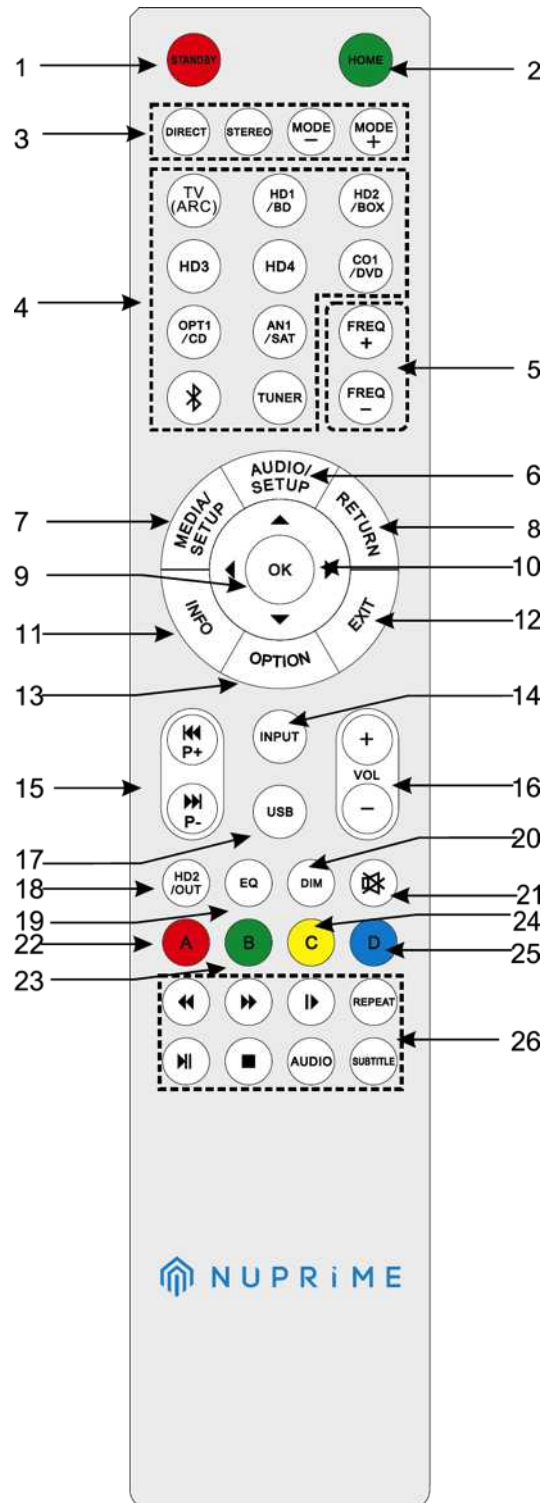
HD-AVA

HD-AVP

1. FM Antenna: For antenna installation to boost signal.

2. Stereo Analog In: 4 sets of Analog inputs (AN1/SAT, AN2, AN3, AN4)

3. USB DAC Input & Output (support native DSD):

4. Digital In: 2 Coaxial & 2 Optical (CO1/DVD, CO2 : OPT1/CD, OPT2)

5. HDMI Output: HDMI 1 and HDMI 2 output. Only HDMI 1 has ARC function.

6. HDMI inputs: 6 individual HDMI inputs (HDMI/BD, HDMI2/Box, HD3, HD4, HD5, HD6)

7. Setup Mic: Connecting to microphone for room equalization

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8. Bluetooth expansion port: For connecting NuPrime BTR-8 Bluetooth receiver, supporting APT-X.

9. Trigger Out: Connecting to power amplifier unit enables power on by NuPrime HD-AVA. (12V/120mA)

10. RS232: Serial com port

11. Mini USB port (For upgrade): For upgrading firmware for NuPrime HD-AVA/AVP.

12. HD-AVA: Stereo Speaker Output. HD-AVP: 4 channel XLR Balanced Output.

13. 7.1 CH output (Un-balanced): FR, FL, SR, SL, SRB, SLB, Center, and Subwoofer.

14. Mix Output L/R: Stereo output capable of combining multiple audio signal inputs.

15. Zone output: Providing three additional and independent zones for multi-room capability. Each zone can be set with independent signal input and volume level.

16. IR In/Out: Supporting IR receiver and IR transmitter allowing receiving and sending remote signals with indirect line of sight.

17. USB Host 2 / USB Host 3: For connecting to USB thumb drives or hard-drive storages.

18 LAN port: For internet connection.

19 AC inlet & Fuse compartment: For power cord to connect to household power outlet and installation of fuse.

4. HD-AVA / HD-AVP Remote Control

1. Standby – Turn the unit into Standby mode.

2. Home – Open on screen Player menu

3. Mode+/- – Switch between listening

modes

4. Input Selection – Direct select input source

5. Tuner – Adjust Tuner frequency.

6. Audio/Setup – Opens up on screen audio menu

7. Media/Setup – Opens up on-screen menu

8. Return button – Return to the previous screen on the menu

9. OK (Enter button) – Confirm selection on the on-screen menu

10. Arrow keys – Move cursor according to the direction on the on-screen menu

11. Info – In Player mode, display playback status.

12. Exit – Exit from on-screen menu

13. Option – In Player mode only. Display the option for current playback status.

14. Input – Toggle between inputs

15. P+/- – During Player mode, selecting previous or next audio/video track/file. In Tuner mode, selecting preset channels.

16. Vol +/- – Volume adjustment.

17. USB – Direct access to USB thumb drive and hard-drive storage root menu.

18. HD2/Out – Selecting input signal for HDMI 2 Out.

19. EQ – Select preset EQ settings.

20. DIM – On-screen light adjustment.

21. Mute: Mute audio.

22. ~ 25. ABCD – N/A. Reserve buttons.
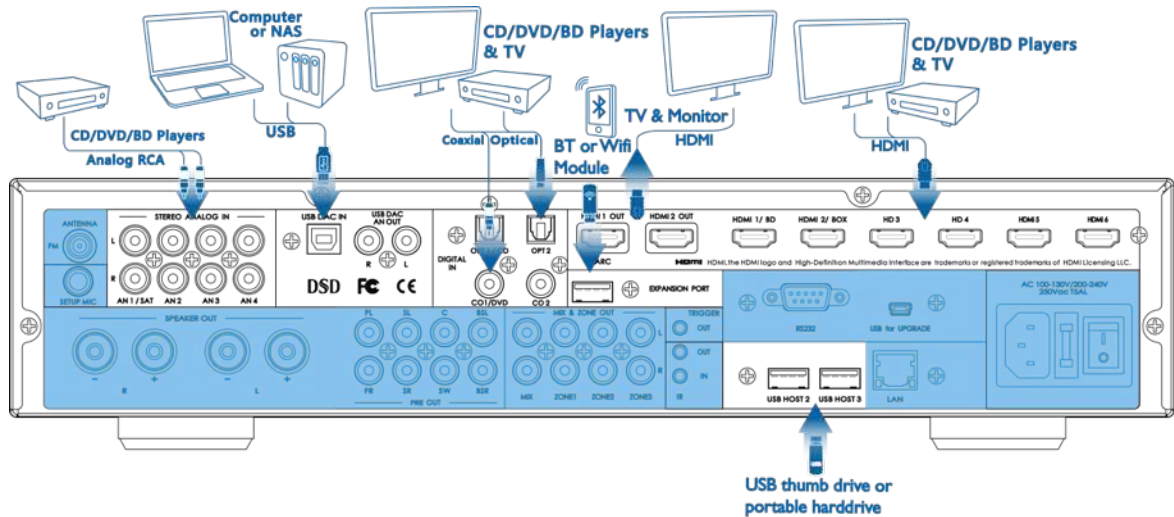
26. DVD/BD Player CEC Controller.
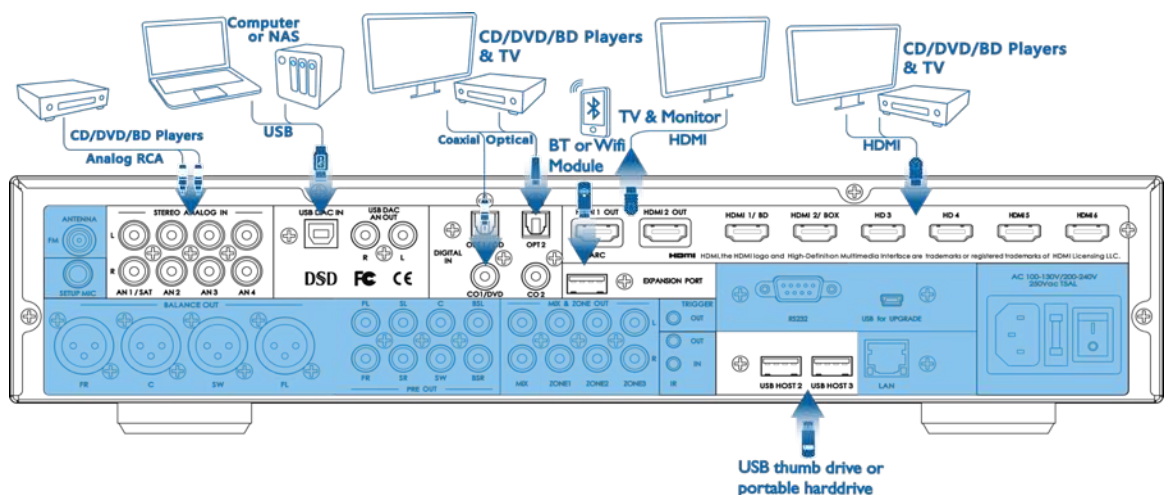
5. Input Setup for NuPrime HD-AVA/HD-AVP

NuPrime HD-AVA/AVP input connection consists of three major categories.

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| 5.1.	HDMI	5.2.	Digital	5.3.	Analog

Input Illustration

HD-AVA

HD-AVP

5.1.   HDMI connection:

Designed to meet the needs of digital television design, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, DVD / BD players, set-top boxes and other video devices. With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio signals (including dual-channel PCM, digital audio signals and multi-channel PCM multichannel).

HD-AVA
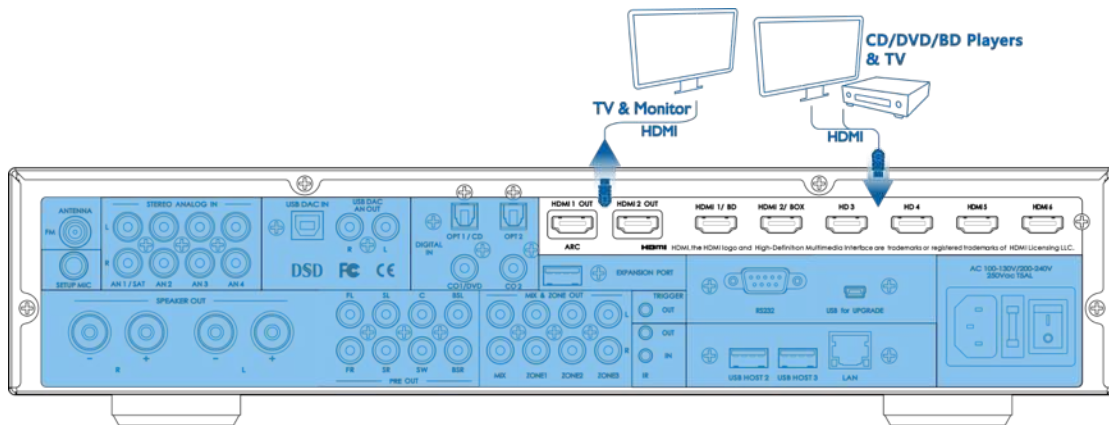
HD-AVP
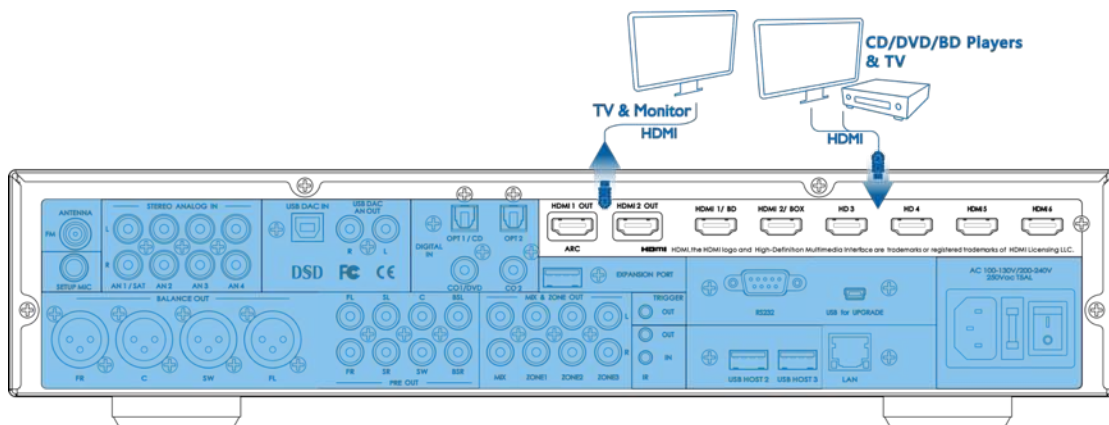
NuPrime HD-AVA/HD-AVP supports wide varieties of HDMI input devices such as DVD/BD players, TVs, musical set top box, game consoles, etc.

High-Definition Multimedia Interface		Connector Port	Description
HDMI		HDMI	HDMI is a audio/video interface for transferring uncompressed video data and compressed or uncompressed digital audio data from HDMIcompliant source device.

HDMI Video:

NuPrime HD-AVA/HD-AVP contains two HDMI outputs and six HDMI inputs.

The HDMI supports HDMI 1.4 and 3D video playback.

When Deep Color signals transmission option is enabled, please be sure to use "High Speed HDMI cable" or High speed Ethernet HDMI cable".

If the video input signal does not match the resolution of the monitor, may result no output signal. In this case, please make sure the resolution of the Blu-ray Disc/DVD player is switched to the monitor resolution compatibility.

HDMI Audio:

The digital audio signal received from HDMI inputs is typically connected to HD-AVA multi-channel output.

HDMI interface supports the following audio formats:

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1. Two-channel linear PCM (32-192 kHz, 16/20/24 bit)

2. Multi-channel linear PCM (up to 7.1 channels, 32-192 kHz, 16/20/24 bit)

3. Bit stream: DOLBY DIGITAL, DOLBY DIGITAL Plus, DOLBY TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio. Your DVD / BD players must support HDMI output of the above audio formats.

5.1.1. HDMI ARC Function:

ARC Mode: Audio Return Channel (ARC) enables an ARC-enabled TV to send audio data to HD-AVA/AVP without via extra external audio signal connection such as optical or coaxial.

⌂   Only HDMI Output 1 supports ARC function.

To setup ARC: Go to Audio Setup (OSD) menu > Setup > Input Config > Input Setup. Under TV option, you can set the Audio option to HDMI ARC to enable ARC function.

5.1.2. HDMI CEC Function:

Consumer Electronics Control (CEC) is a set of commands that utilizes HDMI's two- way communication to allow for single remote control of any CEC-enabled devices connected with HDMI. A CEC command will trigger the necessary commands over HDMI for an entire system to auto-configure itself to respond to the command. When devices that support HDMI Control (CEC) are connected, the following modes of operation can be executed via the HD-AVA/AVP or the external device using any of the device's remote control.

To Setup CEC: Go to Audio Setup (OSD) Menu > Setup > Option > Under HDMI CEC Control.
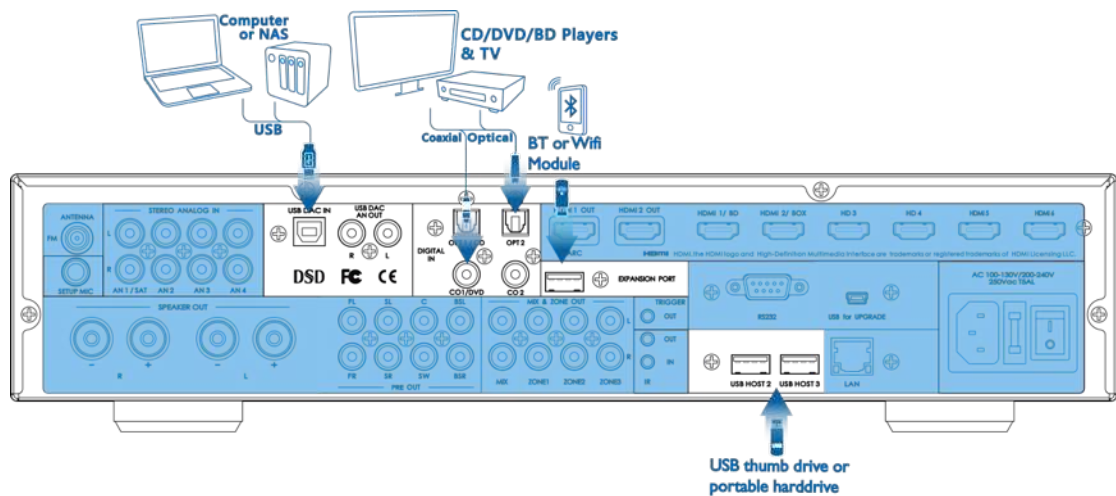
5.1.3. HDMI Off Through Function:

Enable audio signal remain functional through HDMI outputs even when HD-AVA/AVP is on standby.

To Setup Off Through function: Go to Audio Setup (OSD) Menu > Setup > Option > Under HDMI OFF Through. Default sets to OFF.

5.2. Digital Audio connection:

NuPrime HD-AVA/HD-AVP contains several digital audio inputs.

HD-AVA

HD-AVP
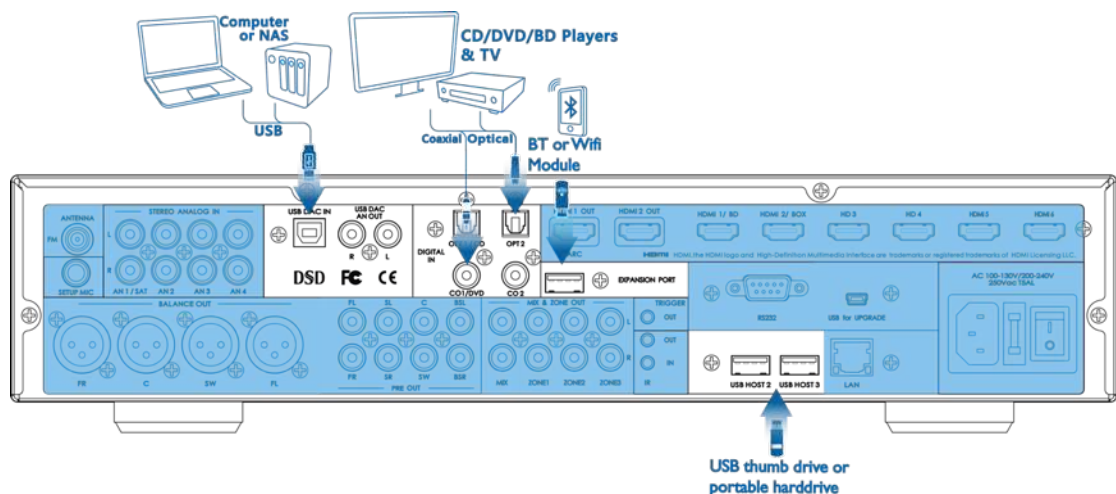
5.2.1.   One USB DAC input for computer (support native DSD) or NAS.

5.2.2.   Two coaxial and two optical inputs for CD/DVD/BD, TV, and game consoles.

5.2.3.   One Expansion port for optional Bluetooth module enables HD-AVA/AVP to support mobile phones and other Bluetooth enable devices.

5.2.4.   Three USB Host ports for supporting USB thumb drives or portable hard drive storages.

　　　　For HD-AVA/HD-AVP to support Dolby Digital and DTS without HDMI, please use digital inputs (Optical and Coaxial) instead of Analog inputs.

5.2.1.   USB DAC Input:

14
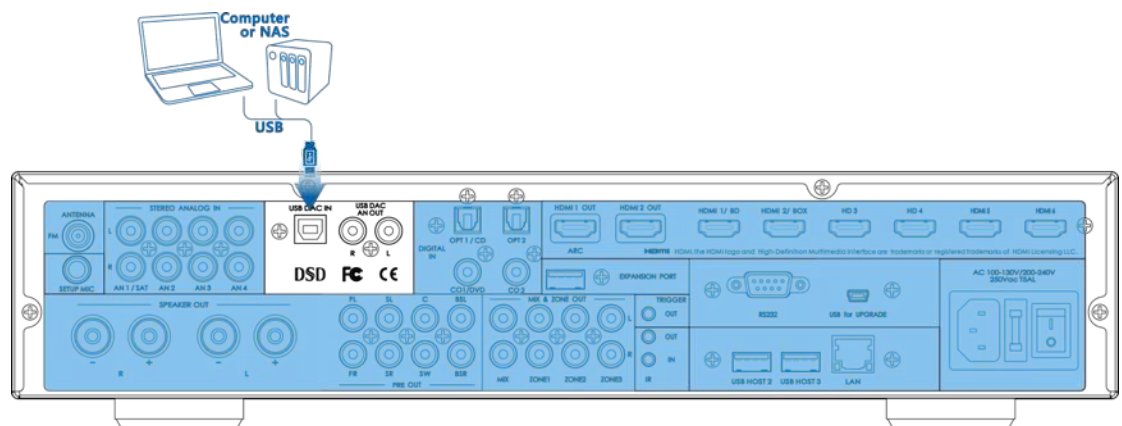
NuPrime
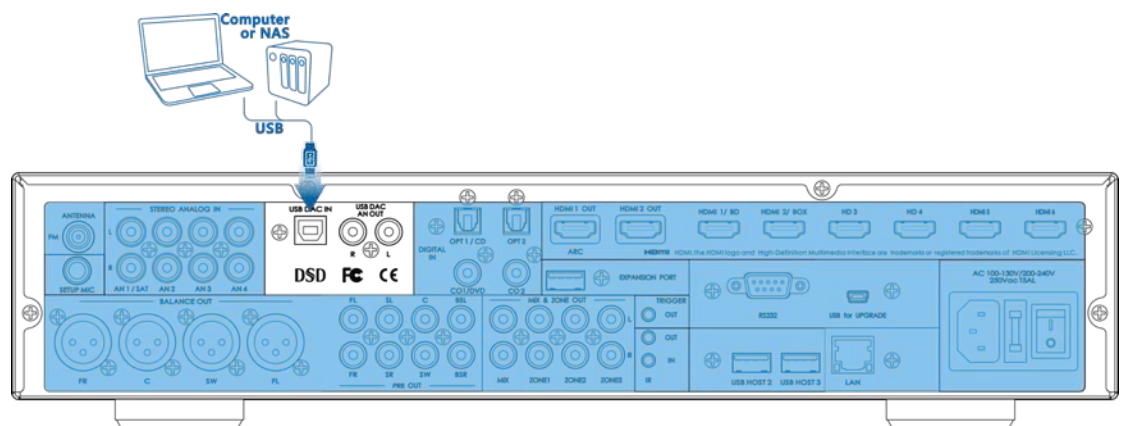
HD-AVA

HD-AVP

HD-AVA/HD-AVP USB DAC supports Windows and Mac IOS as well as NAS system. NuPrime USB DAC supports the latest high-resolution music formats and is capable of decoding sample rates ranging from 44.1kHz to 384kHz (PCM) as well as native DSD decoding ranging from DSD 64 up to DSD 256.

🏠   HD-AVA/HD-AVP does not guarantee that all NAS will operate and be compatible due to wide variety of brands and custom specs. It is recommended to connect NAS via LAN network.

To run the NuPrime HD-AVA/HD-AVP on Mac – PCM:

1. Power on NuPrime HD-AVA/HD-AVP, select USB input. The device will enumerate as a USB Audio device on your Mac.
2. In Audio Midi Setup, select the "NuPrime HD-AVA/NuPrime HD-AVP" device as your default Input and Output device.
3. The sample rate of the device can be selected using the drop down menu.
4. The audio is also output over SPDIF.

To run the NuPrime HD-AVA/HD-AVP on Mac – DSD:

1. Install playback software on MAC.

   Ex: Audirvana 15 days free http://audirvana.com/site/?page_id=112

2. In Preferences Setup, Audio System selects the "NuPrime HD-AVA/NuPrime HD-AVP" as your Default Device.

3. The Native DSD Capability select the "DSD Over PCM standard 1.0"

4. SPDIF output is not working on DSD playback.

To run the NuPrime HD-AVA/HD-AVP on Windows – PCM:

1. Please visit

   www.nuprimeaudio.com and

   download the latest driver.

2. Connect computer to USB DAC and power on NuPrime HD-AVA/NuPrime HD-AVP, select USB DAC input. The device will enumerate as a USB Audio device on your PC.

3. Install the latest driver just download via NuPrime website.

4. In Control Panel->Sound, select "NuPrime HD-AVA/NuPrime HD-AVP" as your Default Device.

To run the NuPrime HD-AVA/NuPrime HD-AVP on Windows – DSD

Install playback software on Windows

1. Install the Foobar media player

http://www.foobar2000.org/getfile/079dd178a05e1c51445e77506daa5dd2/

2. Download the 'SACD' plugin

http://sourceforge.net/projects/sacddecoder/files/latest/download

   a. To install, in Foobar goto File->Preferences and select Components

   b. Click the Install... button

   c. Select the zip file

   d. Click Apply (foobar will restart)

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3. Download the ASIO plugin from

http://www.foobar2000.org/components/view/foo_out_asio

    a. Install the plugin

    b. Click Apply (foobar will restart)

4. Configure the Output Device

    a. Go to Playback->Output

    b. Select the Device: ASIO foo_dsd_asio
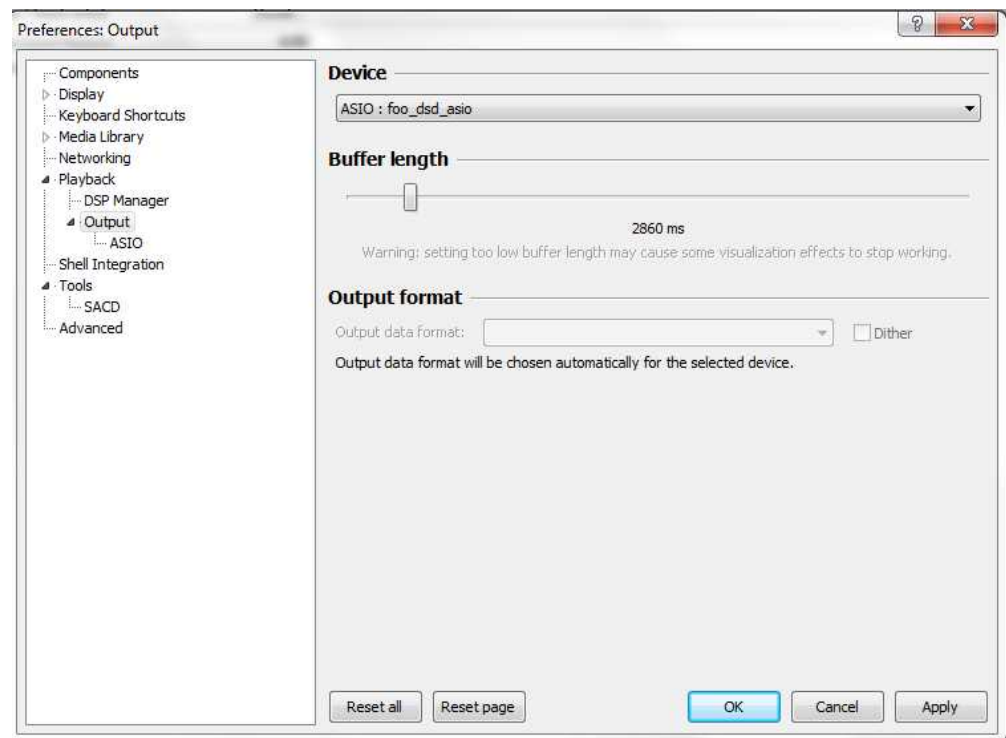
5. Configure the ASIO output

    a. Go to Playback->Output->ASIO, double-click on foo_dsd_asio

    b. Select the NuPrime ASIO Driver

    c. Select ASIO Native

    d. Select PCM to DSD Method: None

    e. Select Fs: DSD128
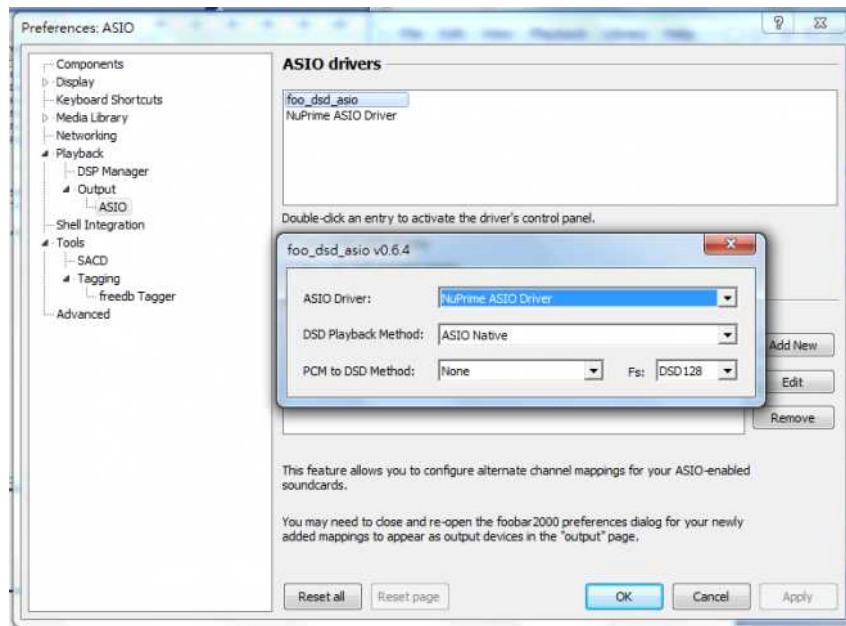
6. Configure the SACD plugin to play DSD (and not convert from DSD to PCM)

    a. Goto Tools->SACD

    b. Set ASIO Driver Mode to DSD

    c. Set PCM Sample Rate to 352800

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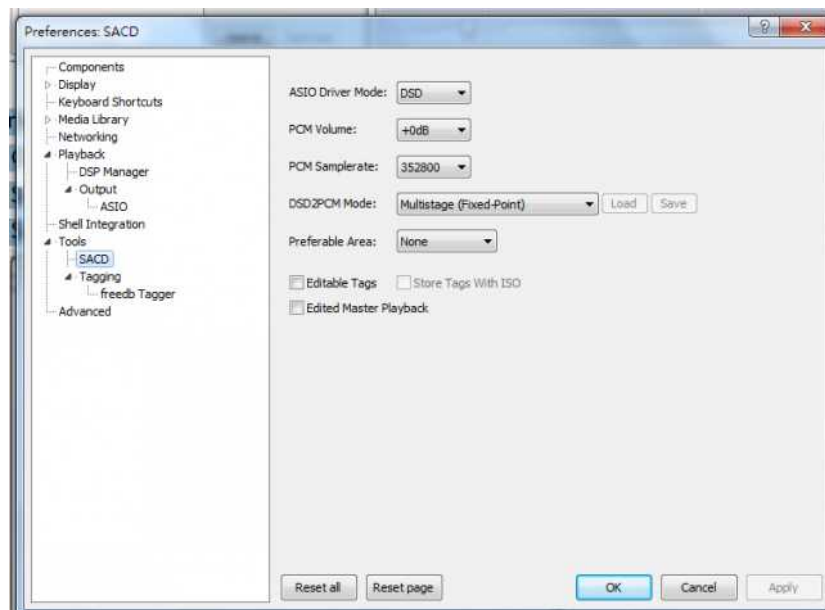
5.2.2. Coaxial and Optical inputs:

HD-AVA

HD-AVP
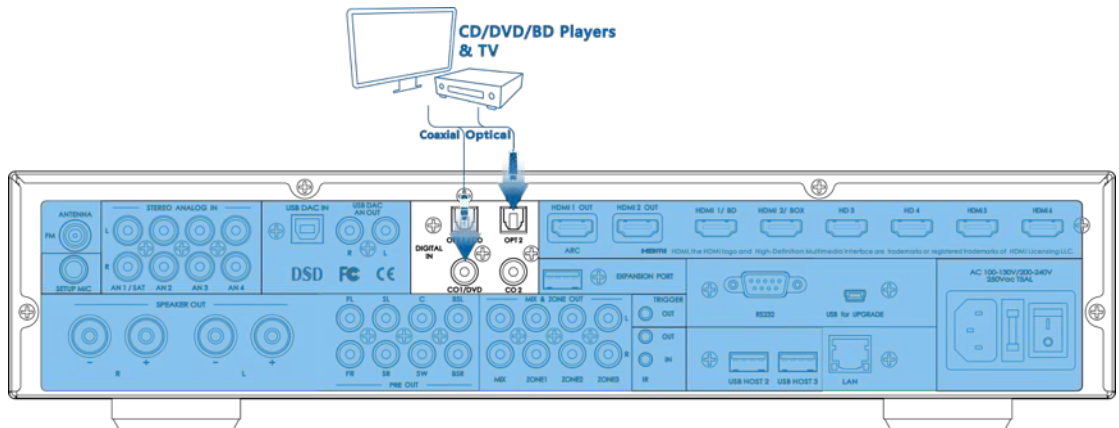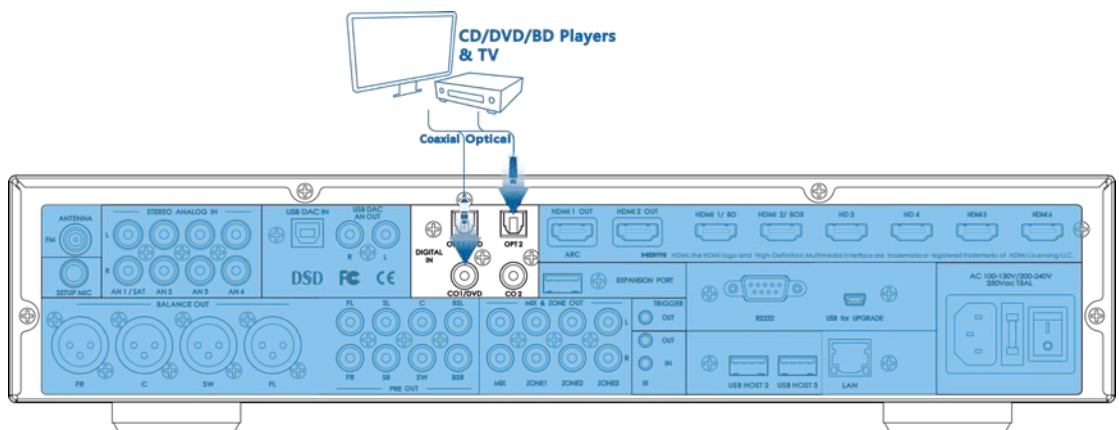
HD-AVA/HD-AVP consists of 2 coaxial and 2 optical inputs to connect to the corresponding optical or coaxial digital output of sources such as CD or BD/DVD players, digital cable box, digital tuners and other applicable components. All available coaxial and digital input can be variably assigned to any of the desired sources.

5.2.3. Expansion port inputs:

HD-AVA
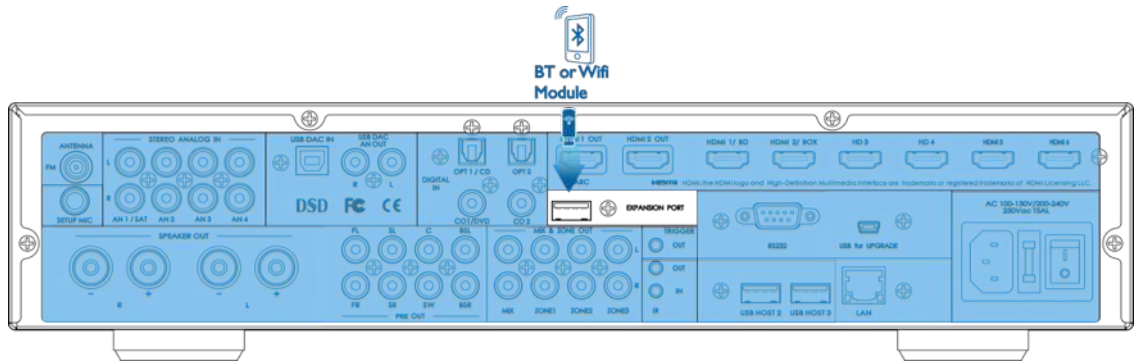
HD-AVP
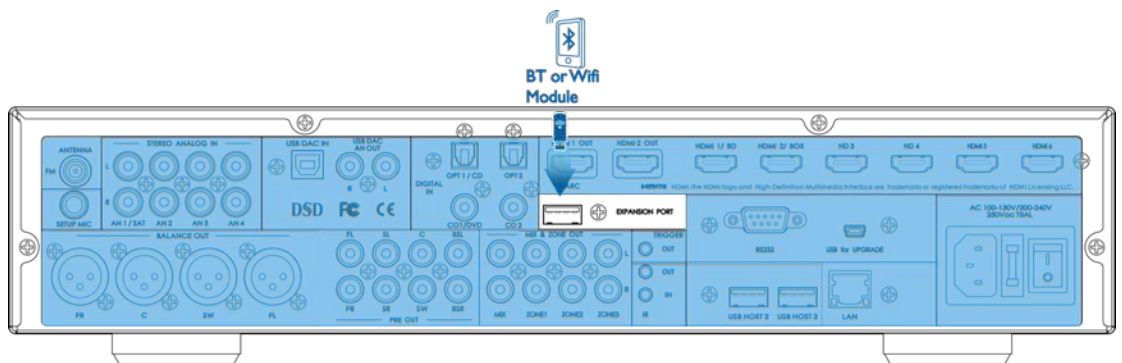
For wireless convenience, you can connect an optional Bluetooth module and connect your mobile phones and Bluetooth enable devices and stream music to the HD-AVA/HD-AVP.

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5.2.4.   USB Host inputs:

HD-AVA

HD-AVP

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USB thumb drive or
portable harddrive
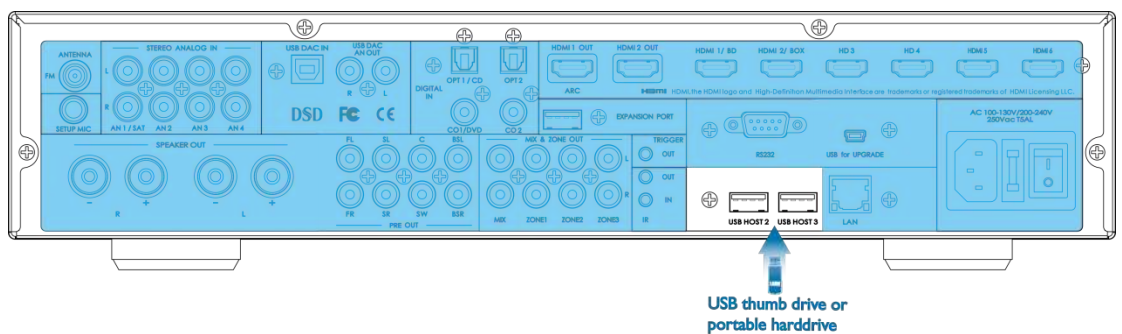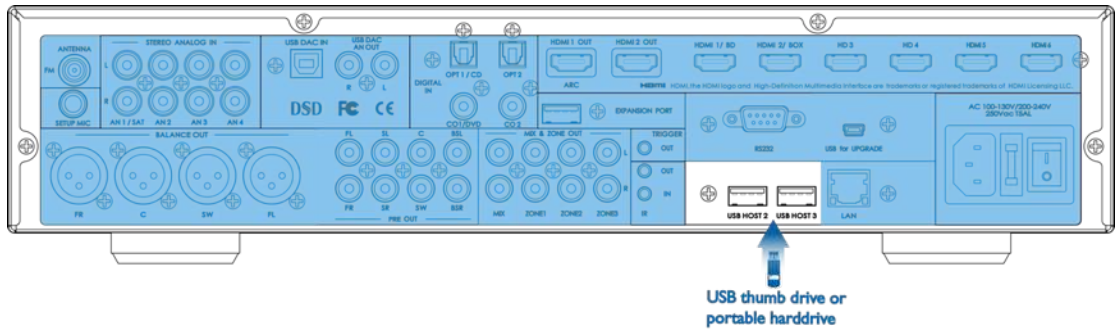
The three USB host connection ports (1 on the front panel and 2 on the rear panel)
allow direct access all the media files from the USB thumb drives and portable hard-
drive storage.

To access the media files from USB thumb drives and portable hard drive storage.
Go to Home Menu > File Manager > USB to access the root of the storage files.

- 🏠 It is recommended to only connect one portable hard drive storage at one
  giving time. HD-AVA/AVP does not guarantee that all USB memory devices
  or portable hard drive storage will operate or receive power. When using a
  portable USB connection type HDD of the kind to which an AC adapter can
  be connected to supply power, use the AC adapter.
- 🏠 USB thumb drives can be connected up to 3 drives. USB memory devices
  will not work via a USB hub.

5.3.   Analog Audio connection:

HD-AVA

CD/DVD/BD Players
Analog RCA
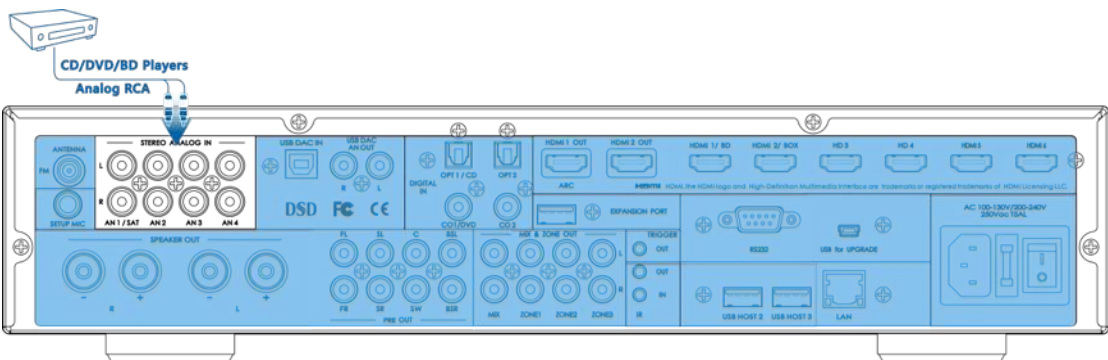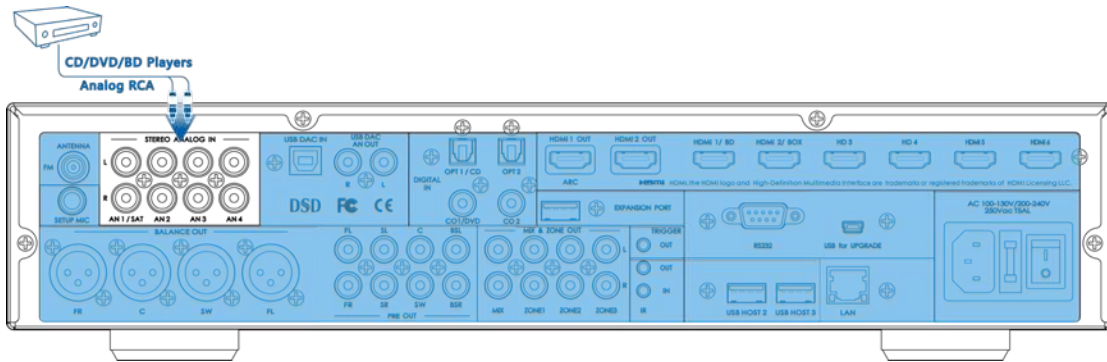
HD-AVP

For more traditional sources the HD-AVA/HD-AVP can accept up to 4 set of analog RCA inputs from your CD, DVD or Blu-ray player. All available analog inputs can be variably assigned to any of the desired sources.

6.   Output Setup for NuPrime HD-AVA/HD-AVP

NuPrime HD-AVA/HD-AVP output connection consists of three major categories.

6.1.   USB DAC Out   6.3.   7.1-CH Out

6.2.   Speaker/ XLR Balanced Out

Output Illustration

HD-AVA

NuPrime
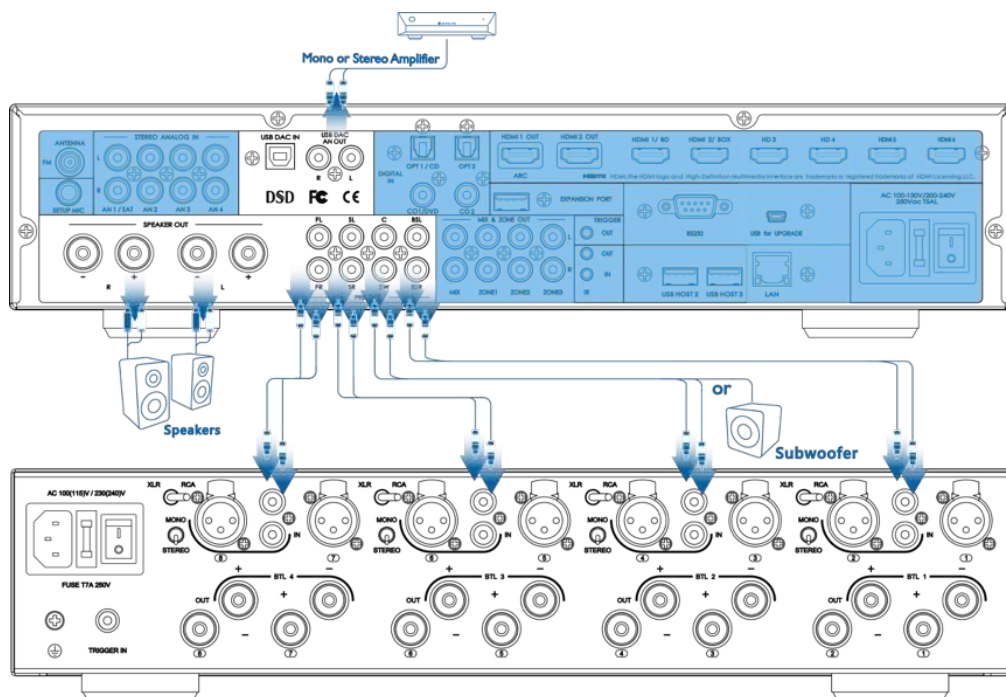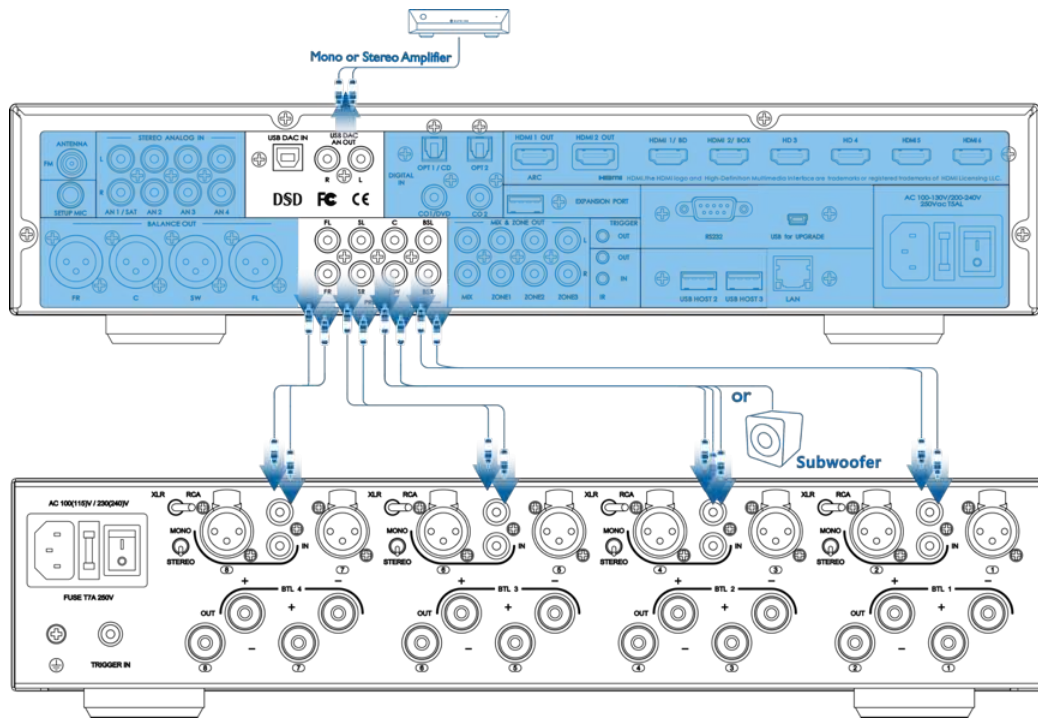
HD-AVP

6.1.   USB DAC Analog output:

HD-AVA
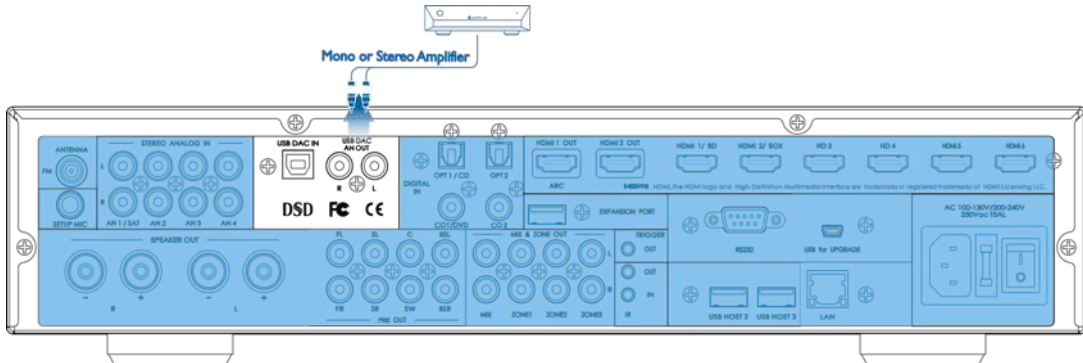
HD-AVP
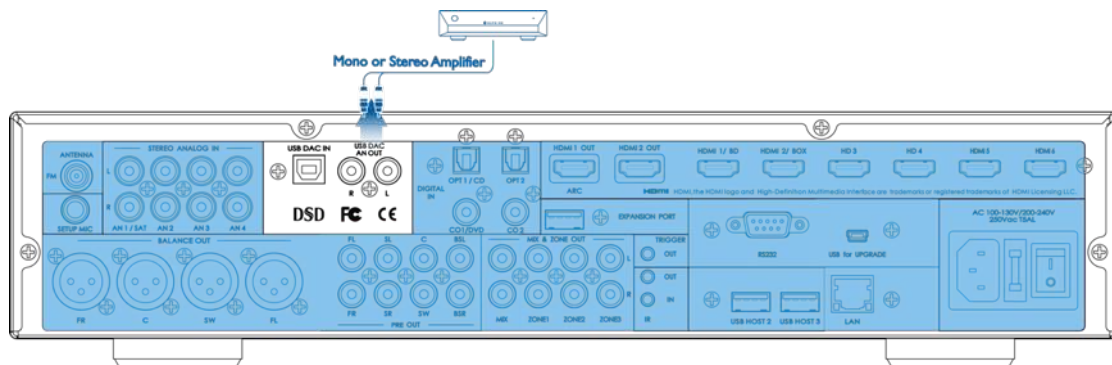
Exclusive stereo analog output designed for USB DAC. This output provides 2V RCA Analog output for compatibility with a broad variety of systems such as Mono/Stereo amplifiers. In addition to its native DSD-format decoding capability, this function is ideal for upgrading existing high-end non-DSD DACs.

6.2. Stereo Speaker output/ XLR Balanced output:

HD-AVA
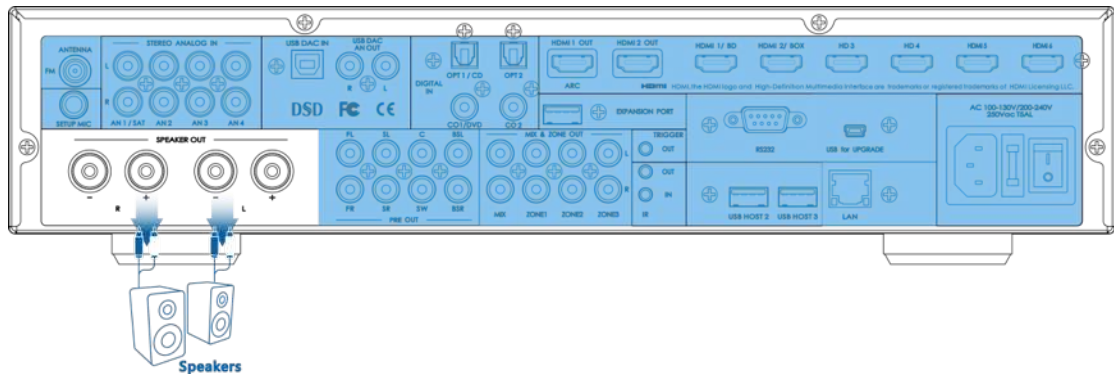
Unique to NuPrime HD-AVA is the build-in NuPrime proprietary Class D amplifier module and PSU capable of supporting stereo speaker outputs.

Speaker Output Spec:

- Power: 2 X 200W at 8 Ohms
- Input Impedance: 23.5k Ohms (To be confirm)
- Gain: 28 dB (To be confirm)
- Signal to Noise Ratio: 110dB at 1W, 10W, 100W (To be confirm)
- Frequency Response: 0Hz to 60kHz (To be confirm)

Connecting the Speaker:

1. Unplug all power cords before connecting the speakers

2. Follow the instruction manual of the speakers

3. Make sure the correct polarity is connected

4. Please connect one speaker per connector

5. An over-length speaker cable might effects the sound quality

6. Short circuiting on the cable might damage the amplifier

7. Please make sure the core of the cable is not in contact of the rear panel of the unit

8. Connecting multiple cables to one speaker might damage the amplifier

HD-AVP

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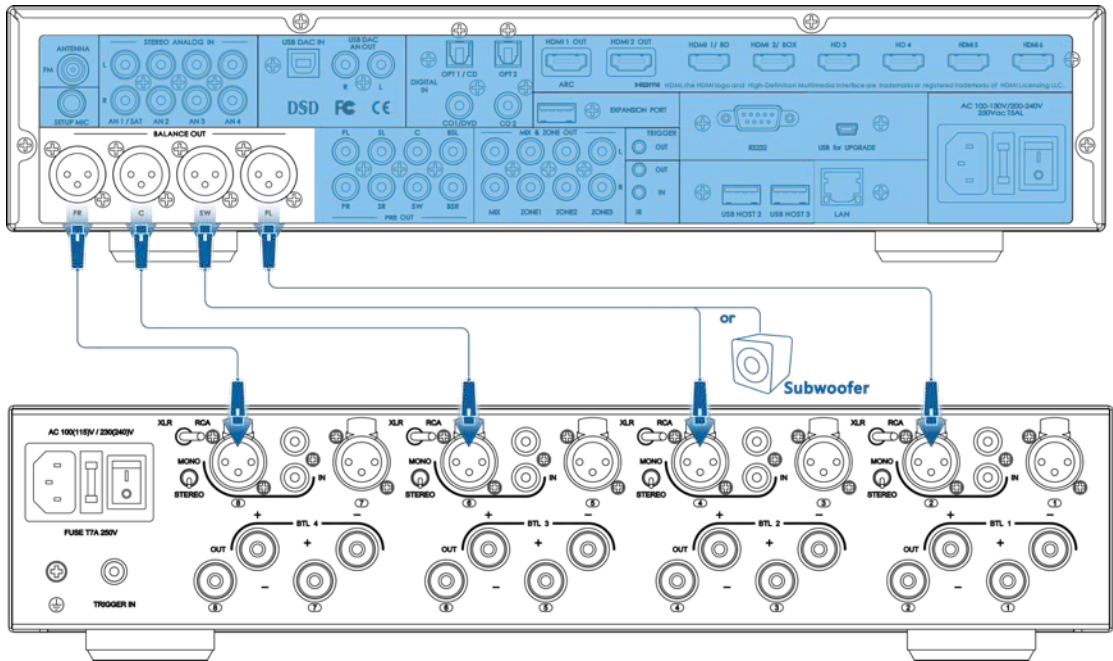
Unique to NuPrime HD-AVP is the XLR Balanced output. The Balanced output supports up to 4 channels or 3 channels with subwoofer.

6.3.   7.1 Pre Out multi-channel output:

HD-AVA
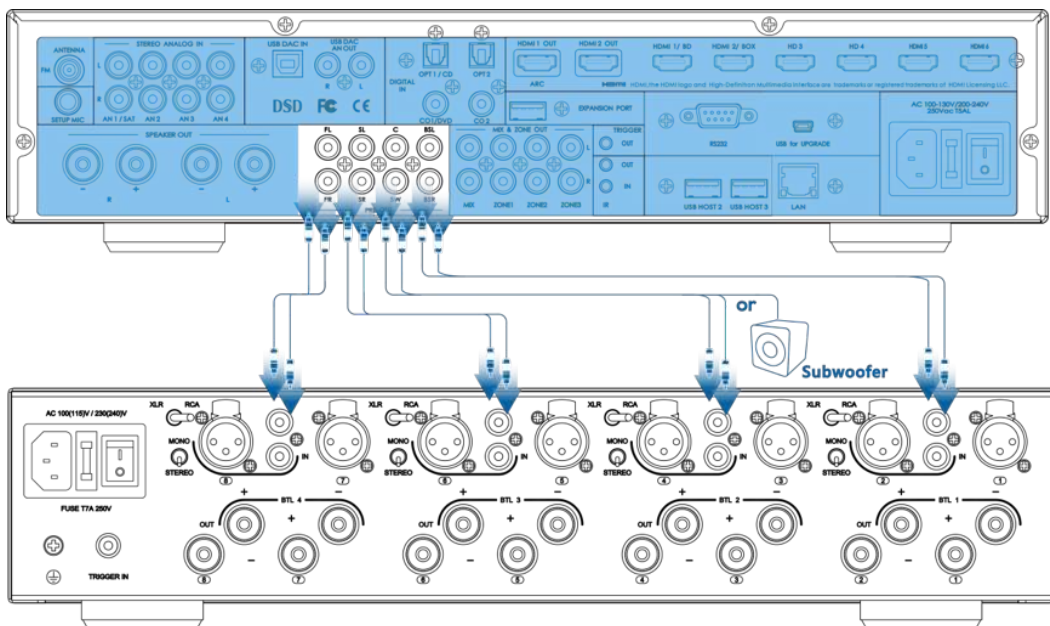
HD-AVP
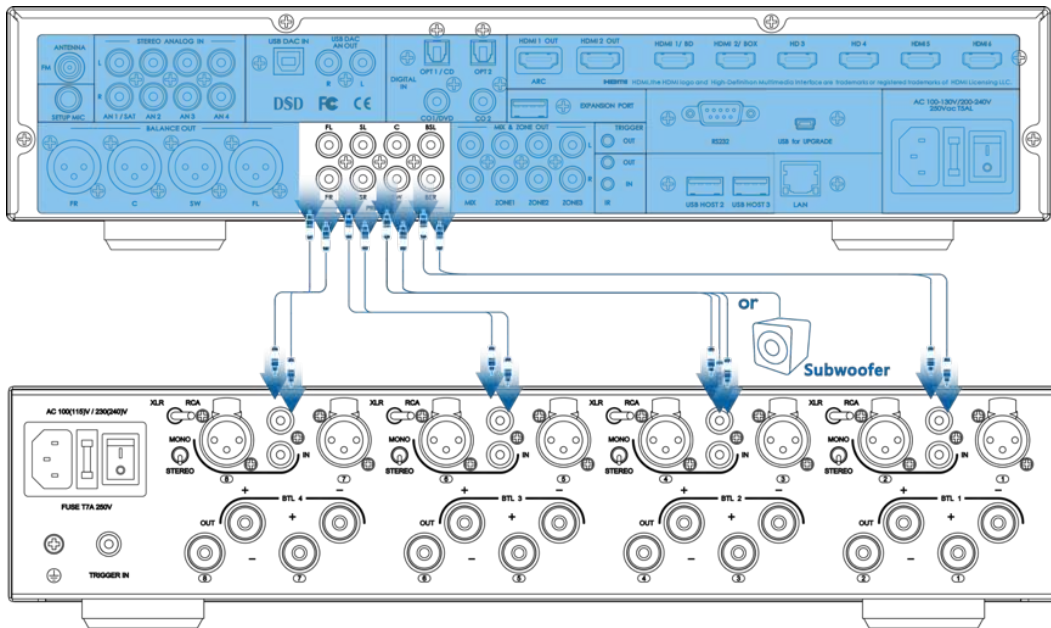
HD-AVA/HD-AVP also supports multi-channel of up to 8 channels with Pre Out function to ensure maximum compatibility and performance. Devices such as NuPrime MCH-K38 with a multi-channel amplifier output can be connected to HD-AVA/AVP Pre Out as shown in illustrations.

FL – Front left

FR – Front right

LS – Left surround

RS – Right surround

C – Center

SW – Active Subwoofer or Multichannel amplifier RCA input.

LBS – Left back surround

RBS – Right back surround

7. Mix & Zone Setup for NuPrime HD-AVA/HD-AVP

NuPrime HD-AVA Mix & Zone connection consists of two categories.

7.1. Mix

7.2.   Zone (Zone 1, Zone 2, Zone 3)

Output Illustration

HD-AVA

HD-AVP

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NuPrime
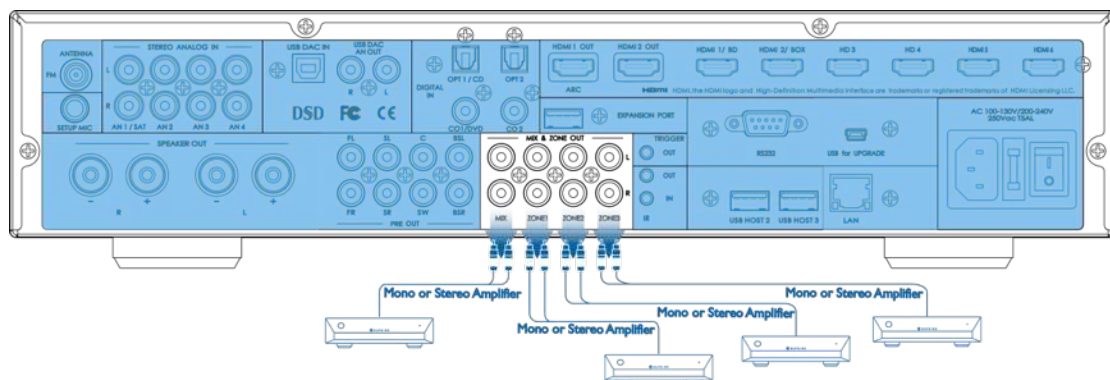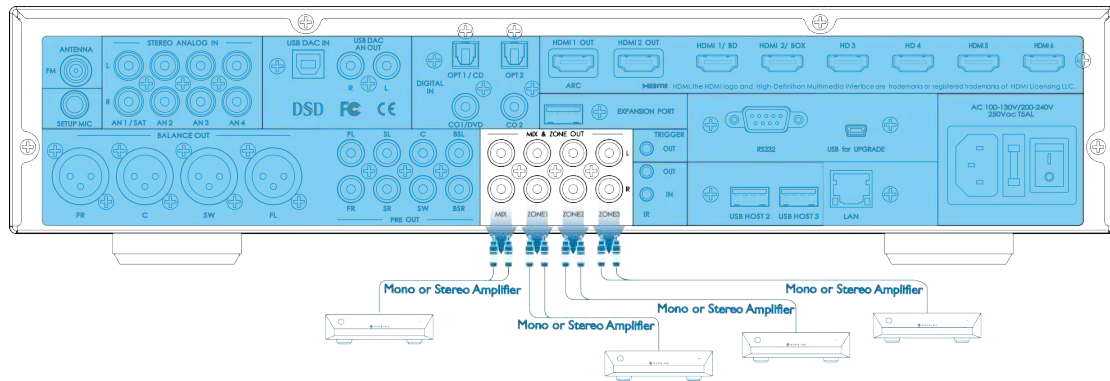
7.1.   Mix connection output:

HD-AVA
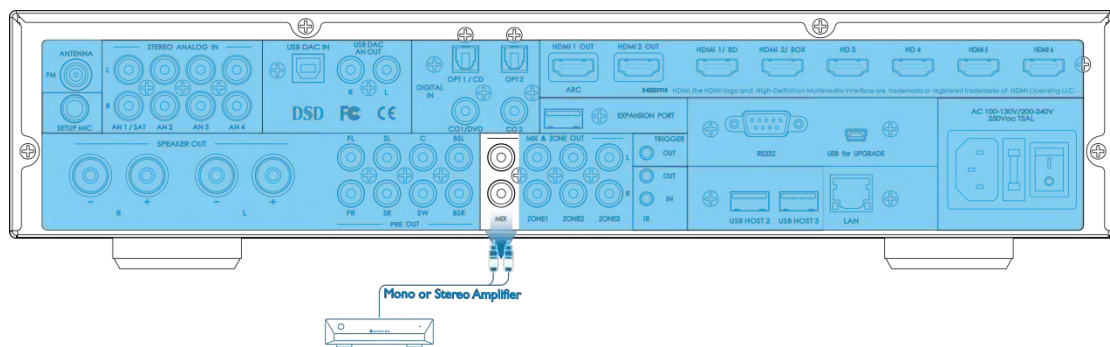
HD-AVP
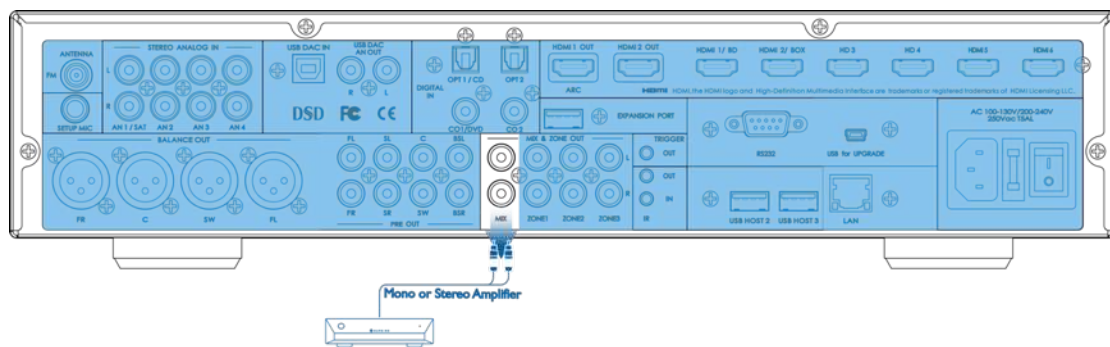
Mix Output: Mix output combines all audio signals from all input sources and output all the signals through mix output at the same time. Mix output combines all Left input audio signal and mix before outputting to Mix output Left channel, and vice versa for the right channel. All center and bass input audio signal is evenly distributed to both Mix output left and right channels.

⌂   Only one of the Stereo Analog inputs (AN1, AN2, AN3, or AN4) is mixed into Mix

output. They can't all be mixed simultaneously.

7.2.   Zone connection output:

HD-AVA
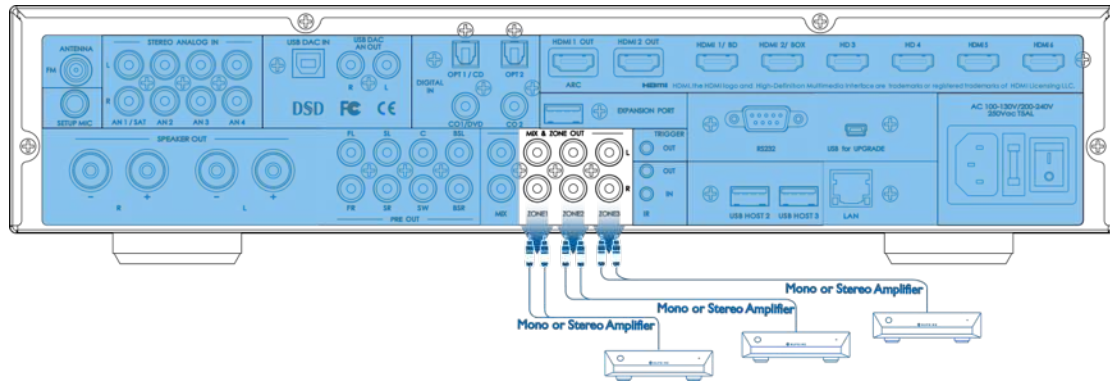
HD-AVP
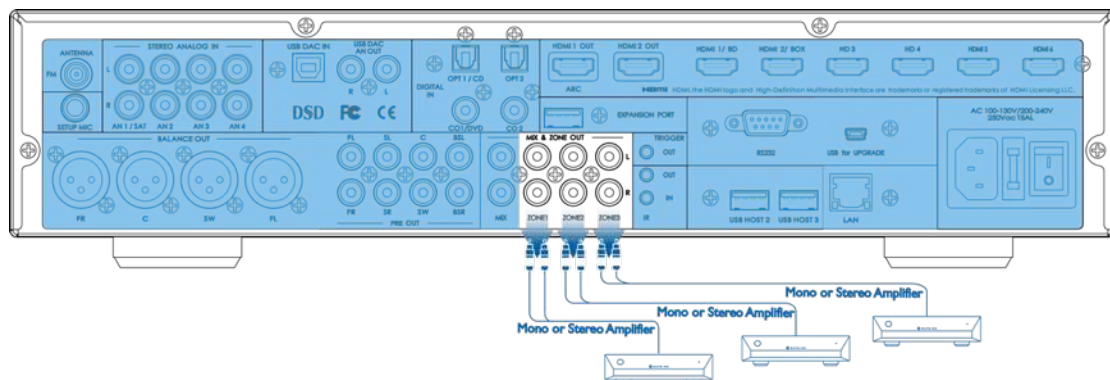
Zone or multi-room function provides three additional standalone and independent stereo outputs to your main system. Each of these three zones has its independent control, independent input source selection, independent volume control, and each has independent power on switch to activate according to your settings.

To Setup Zone: Go to Audio Setup (OSD) Menu > Zone. (See OSD menu setup for detail explanation. See page 36)

8.   To connect NuPrime HD-AVA/HD-AVP to internet

8.1.   LAN Connection   8.2.   WiFi Connection

8.1.   LAN connection:

HD-AVA

NuPrime

HD-AVP

Plug in the RJ-45 Ethernet cable to the LAN port on the back panel of NuPrime HD-AVA/HD-AVP. Once connected, "Ethernet" indicator appears on the top right corner of the main menu. IP address will also change to inner IP address provided by the router. To be able to use Miracast or Airplay, make sure the devices are also connected to the same Local Area Connection.

8.2. WiFi connection:

Connect to internet using Wi-Fi connection on NuPrime HD-AVA/HD-AVP. Please go to Setup on the main menu. Choose Network and select Wi-Fi Connection to search for your desired Wi-Fi signal for connection. To return NuPrime HD-AVA /HD-AVP back to direct mode. Go to Setup, choose Network and select "Return Direct mode". Direct mode setup contents information for NuPrime HD-AVA/HD-AVP internet generator password to prevent others from accessing NuPrime HD-AVA/HD-AVP.

To Setup internet connection: Go to Home Menu > Setup > Network > WiFi connection. (See Home Menu setup for detail explanation. See page 32)

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9. Miracast and Airplay connection guide

9.1.   Using Miracast: Turn on the Wi-Fi connection on your android device. Searching and connecting to NuPrime HD-AVA/HD-AVP (XXXX) in the search list. To disconnect the Miracast, please open Wi-Fi setting and click on NuPrime HD-AVA/HD-AVP and select "Forget network". Once the IP re-appears on the menu, HD-AVA/HD-AVP is able for reconnection.

9.2.   Using Airplay: Turn on the Wi-Fi connection on your Apple device. Searching and connecting to NuPrime HD-AVA/HD-AVP (XXXX) in the search list. To disconnect the Airplay, please open Wi-Fi setting and click on NuPrime HD-AVA/HD-AVP and select "Forget network". Once the IP re-appears on the menu, HD-AVA/HD-AVP is able for reconnection.
The Wi-Fi signals for above connections are generated by HD-AVA/HD-AVP, no internet connection is required.

10. Antenna Installation guide for Tuner
HD-AVA

HD-AVP

NuPrime

To install FM antenna for NuPrime HD-AVA/HD-AVP, please make sure the provided antenna cable is properly connected to the antenna port on the back panel. Once the cable is properly connected, please turn on the Tuner on the NuPrime HD-AVA/HD-AVP and select a desired channel. Adjust the cable to acquire the best reception and fix the cable with tape or thumbtack to keep the signal reception stable.

11. Speaker Setup - Positioning Your Speakers

Setup for Room Equalization:

The intelligent acoustic room scanning involves a testing Mic. It can automatically test the number of connected speakers, the optimal inflection point frequency and the distance between speakers and the audience. Through capturing noise in the room, it will adjust frequency and time thresholds to solve distortion problem caused by noise. The scanning system can also automatically set the EQ. The equalizer with 11 segments can maintain the balance within octave. Before doing the acoustic scanning, please make sure all speakers are connected.

Connecting the testing mic:

1. Connect the test mic included in the package to the SETUP MIC jack on the rear panel before scanning. Place the mic in the main listening position and parallel with the listener's ear when sitting down. Make sure the mic is standing up straight with the sensor pointing up. In order to ensure the accuracy of the testing, please do not hold or touch the mic while doing the acoustic scanning.

2. Please enter the on-screen menu and go to Setup.

3. Select the option Auto Room EQ.

4. Follow the on screen instructions to complete the testing process.

NuPrime

12. Home Menu

Press the home button on the remote control will bring NuPrime HD-AVA/HD-AVP to Player home menu.
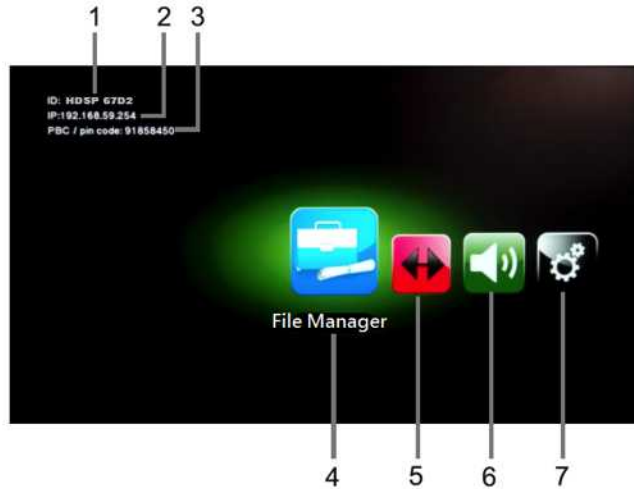
1. Unit name + 4 random numbers. This ensures each unit has a unique name during the Wi-Fi connection.
2. NuPrime HD-AVA/AVP IP address indicator. When in Direct Mode HD-AVA/AVP generates internally a fixed IP address: 192.168.59.254. During internet connection, Local Area Network generates an IP address for HD-AVA/AVP.
3. Display NuPrime HD-AVA/AVP PIN Code.
4. File management: NuPrime HD-AVA/AVP has three USB Host connection ports to accept USB thumb drive and hard-drive storage. File management allows NuPrime HD-AVA/AVP to access those storages and also to access network storages and play the files within.
5. Source Input: Opens up output/input selection menu allowing HDMI outputs to select between input signals.
6. Audio setup: Opens up NuPrime HD-AVA/AVP OSD setup menu.
7. Setup:
12.1.   Network
12.2.   Audio
12.3.   Video
12.4.   System

   ⌂   See next page for detail setup
       information

12.1. Network setup:

1. Wired (LAN) connection setup: For internet connection via LAN; IP and DNS configuration.
2. Device Name setup: Allowing to change Device Name (Default: HD-AVA/AVP).
3. Wi-Fi Connection: For Wireless connection setting. Connecting to internet via Wi-Fi Network.
4. Direct mode setting: Internal Wi-Fi generator setup (password and safety information.)
5. Network information: Display internet connection information.
6. Return Direct connection mode: Return HD-AVA/AVP to internal Wi-Fi connection.

12.2. **Audio Setup:**

Opens up NuPrime HD-AVA/AVP OSD setup menu.

12.3. Video Setup:

1. Aspect Ratio: Display resolution setting
2. Enable/Disable video output scaled down to 90%.
3. Enable/Disable Deep color.

12.4. System setup:

1. Language: Selecting preferable language.
2. Font code: Selecting display font code format.
3. Factory Default: Return all settings to factory default setup.
4. Version info: Display version information.
5. USB upgrade: Upgrading Player Firmware via USB connection.
6. MCU Upgrade: Upgrading MCU Firmware via USB connection.

NuPrime

13. NuPrime HD-AVA/HD-AVP OSD setup

Input	Mode	Parameter	Zone	Setup

13.1. Input

13.2. Mode

13.3. Parameter

13.4. Zone

13.5. Setup

13.1. Input: Display all input selection and its set audio option.

☝ To setup input options, please go to OSD Menu > Setup > Input Config > Input Setup. (Please check here for detail setup, page 38)

Input	Mode	Parameter	Zone	Setup
Tuner		Preset:	01 98.00MHz	
TV		Audio:	HDMI ARC	
PLAYER		Audio:	PLAYER	
HD1/BD		Audio:	HDMI 1	
HD2/BOX		Audio:	HDMI 2	
HD3		Audio:	HDMI 3	
HD4		Audio:	HDMI 4	
HD5		Audio:	HDMI 5	
HD6		Audio:	HDMI 6	
CO1/DVD		Audio:	Coaxial 1	
CO2		Audio:	Coaxial 2	
OPT1/CD		Audio:	Optical 1	
OPT2		Audio:	Optical 2	
AN1/SAT		Audio:	Analog 1	
AN2		Audio:	Analog 2	
AN3		Audio:	Analog 3	
AN4		Audio:	Analog 4	
USB DAC		Audio:	USB DAC	
Bluetooth		Remote Device:	No Remote Device	
∧∨ Move Cursor		[ENTER] Select		[RETURN] Return

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13.2. Mode: Listening mode selection. (Pure Direct, Pure Audio, All Stereo, PLIIx, Neo:6, Direct.)

Input	Mode	Parameter	Zone	Setup

Pure Direct

Pure Audio

All Stereo

PLIIx

NEO:6

Direct

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

NuPrime

13.3. Parameter: Speaker parameter setting. Adjustment of 0.5dB increments, parameter ranging from -10dB to +10dB.

Input	Mode	Parameter	Zone	Setup

Front Left	00.0 dB
Center	00.0 dB
Front Right	00.0 dB
Left Surround	00.0 dB
Right Surround	00.0 dB
Back Surround Left	00.0 dB
Back Surround Right	00.0 dB
SubWoofer	00.0 dB
Midnight	Off
Center Width	00
Center Dimension	00

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

NuPrime

13.4.   Zone: Multi-room setting. (Three set of room settings. Each Zone has independent power setting, volume adjustment, and input selection)

A. Zone Power: Enable / Disable the multi-room function. Each Zone can be enabled or disabled independently.

B. Zone Volume: Volume setting. Each Zone can set a desired independent volume.

C. Zone Source: Input selection. The signal source can be set to one of the following: Sync by Main, FM Tuner, Analog inputs (AN1, AN2, AN3, & AN4).

Input	Mode	Parameter	Zone	Setup
Zone 1		Zone Power		Off
Zone 2		Zone Volume		40
Zone 3		Zone Source		Sync by Main
				FM 87.00MHz
				AN1 / SAT
				AN2
				AN3
				AN4

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

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13.5.　　Setup: System setting menu. This is all major configurations can be set here.

13.5.1. Input Config　　　　　　　**13.5.5. Option**

13.5.2. Mode Setup　　　　　　　　**13.5.6. Language**

13.5.3. Speaker Setup　　　　　　　**13.5.7. Load Default**

13.5.4. AutoRoom/EQ　　　　　　　**13.5.8. Version**

Input	Mode	Parameter	Zone	Setup

Input Config

Mode Setup

Speaker Setup

Auto Room / EQ

Option

Language

Load Default

Version

∧∨ Move Cursor　　　　[ENTER] Select　　　　[RETURN] Return

13.5.1.　　　Input Config:

a.　Input Setup　　　　　　　　　　　b.　Trigger Mode

Input	Mode	Parameter	Zone	Setup
Input Config		Input Setup		
Mode Setup		Trigger Mode	Always On	

a.　Input setup: Various settings for all Input selections:

Input	Mode	Parameter	Zone	Setup
TV		Enable		ON
Player		Video		Player
HD1 / BD		Audio		HDMI ARC
HD2 / Box		Rename		TV
HD3		Lip Sync		0 mS
HD4		Input Level		00 dB
HD5		Trigger		ON
HD6		Independent Vol		OFF

1. Enable: Turn on/off the input selection. Only the input selections that are not hotkey to the remote control can be turn off.
2. Video: Select the video signal for the Input.
3. Audio: Select the audio signal for the Input.
4. Rename: Rename the Input selection to your desired name.
5. Lip sync: Matching the audio with video. Sync time adjustment range 0 ~ 999 mS.
6. Input Level: Audio level: adjustment range -10dB ~ + 10dB.
7. Trigger: Enable/disable trigger function. When set to ON, if the Input is selected, 12V/120mA is given and sent to turn on the unit that is connected to Trigger out on the rear panel.
8. Independent Vol.: Enable the selected input to have independent volume setting. Set to off by default.

b.　Trigger mode: Set the condition for trigger out: Always off, Always on, Input Selection, Zone 1/2/3 Power on.

NuPrime

13.5.2. **Mode Setup: Listening mode configuration. Each listening mode can also be configured.**

Analog 2CH	PureDirect, PureAudio, PLIIx, NEO:6, All Stereo
PCM	
Multi PCM	Pure Direct, PureAudio, PLIIx, All Stereo
DOLBY 2/0	PureDirect, PureAudio, PLIIx, NEO:6, Direct, All Stereo
DOLBY D	PureDirect, PureAudio, PLIIx, Direct, All Stereo
DOLBY EX	PureDirect, PureAudio, Direct, All Stereo
DOLBY HD DOLBY D+	PureDirect, PureAudio, PLIIx, Direct, All Stereo
DTS 2/0	PureDirect, PureAudio, PLIIx, NEO:6, Direct, All Stereo
DTS	PureDirect, PureAudio, PLIIx, Direct, All Stereo
DTS ES	PureDirect, PureAudio, Direct, All Stereo
DTS HD	PureDirect, PureAudio, PLIIx, Direct, All Stereo

13.5.3. Speaker Setup: Speaker configuration.

a. Size/Crossover: To configure the speaker size Large (Main speaker) or Small (Surround speaker) and crossover frequency manually. Auto Room / EQ can be used for automatic smart room equalization.

b. Noise Test: To configure speaker soundstage level. Auto Room / EQ can be used for automatic smart room equalization

c. Speaker Distance: To configure the speaker distance manually. Auto Room / EQ can be used for automatic smart room equalization.

d. LFE Level: Low Frequency Equalization configuration for subwoofer.

e. Speaker Mode Select: Selecting the best suited speaker mode.
   1. Bi-amp
   2. Dual-amp
   3. Standard Speaker

13.5.4. Auto Room/EQ:

a. Auto Room: Connecting to microphone for smart room equalization
b. Manual EQ1/2/3: 3 sets of EQ presets that can be selected using with remote control.
c. Auto EQ: System presets automatically.
d. EQ Select: EQ selection.

Input	Mode	Parameter	Zone	Setup
Input Config		Auto Room		
Mode Setup		Manual EQ 1	Adjust	
Speaker Setup		Manual EQ 2	Adjust	
Auto Room / EQ		Manual EQ 3	Adjust	
Option		Auto EQ	Adjust	
Language		EQ Select	Manual 1	
Load Default			Manual 2	
Version			Manual 3	
			Auto EQ	
			EQ Off	

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

13.5.5.　　Option:

a. OSD Depth: Adjust the visibility of the OSD menu.
b. OSD Popup: Enable or disable the pop up notification on the bottom screen when signal is changed.
c. HDMI CEC Control: Enable or disable CEC function. CEC enables using NuPrime Remote control to control DVD/BD players.
d. HDMI Audio Out: Enable or disable audio signal out from HDMI outputs.
e. HDMI Off Through: Enable or disable audio signal remain functional through HDMI outputs even when HD-AVA is on standby.
f. Volume Mode: Selecting volume mode.

Input	Mode	Parameter	Zone	Setup
Input Config		OSD Depth		10
Mode Setup		OSD Pop up		All Operational
Speaker Setup		HDMI CEC Control		Off
Auto Room / EQ		HDMI Audio Out		Amplifier
Option		HDMI OFF Through		Off
Language		Volume Mode		True Gain

13.5.6. Language: Selecting OSD Menu display language.

Input	Mode	Parameter	Zone	Setup

Input Config   English

Mode Setup   中文

Speaker Setup

Auto Room / EQ

Option

Language

Load Default

Version

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

13.5.7. Load Default: Return to factory default.
Load and restore all settings to factory default setting.

13.5.8. Version: Display Main CPU version.

Input	Mode	Parameter	Zone	Setup

Input Config   Main CPU: V2.5

Mode Setup   Bluetooth Module   No Module

Speaker Setup

Auto Room / EQ   TV : DVI   ADI ADV762X

Option

Language

Load Default

Version

∧∨ Move Cursor   [ENTER] Select   [RETURN] Return

NuPrime

14. Specification and Features

Specification:
14.1. Inputs:
1 x USB PCM / DSD Digital (PCM up to 384KHz & DSD UP TO DSD256)
6 x HDMI V1.4
2 x Coaxial Digital S/PDIF
2 x Optical Digital S/PDIF
1 x Bluetooth Receiver (optional) input
3 x USB host ports for storage drivers.
4 x Analog Stereo RCA
1 x Antenna for FM/AM

14.2. Outputs:
1 x USB DAC Analog Out (Stereo)
2 x HDMI Out
7.1 x Analog RCA output
1 x Mix output
3 x Stereo Zone output
1 x Stereo Speaker output (HD-AVA)
or
4 x XLR Balanced output (HD-AVP)

Features:
- Miracast for mobile phone and tablet, wireless transmitting audio and video.
- Dedicated microphone for setting environmental sound field.
- Extended IR receiver for remote control
- Remote control shortcut keys for "stereo mode", "VFD monitor on/off", "retain TV display"
- FM/AM radio
- Standard 2U Chassis height
- DIM function
- Trigger Out for connecting to power amplifiers

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

For a period of ONE (1) YEAR 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

NuPrime

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