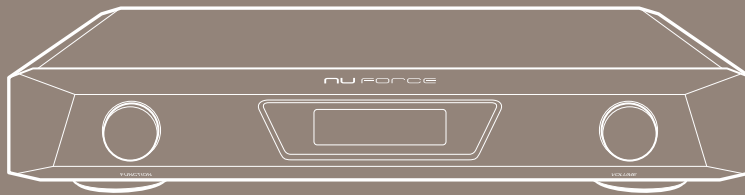


NuForce

AVP-18

AV Processor



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.

INTRODUCTION

High-End All-Digital Preamp-Processor with Fully Customizable Features for Serious AV Enthusiasts.

The NuForce AVP-18 all-digital HT preamp/processor offers dedicated AV enthusiasts true, 24/192 digital audio performance and superb HD video at an amazing price. With four HDMI inputs, two optical and two coaxial S/PDIF inputs, the AVP-18 easily accommodates the most complex system configurations. Supported digital audio formats include:

- DTS-HD Master Audio
- DTS Neo:6
- Dolby TrueHD
- Dolby Pro Logic IIX
- Dolby Pro Logic IIZ.

In order to focus on the best possible digital-to-analog conversion (DAC) performance, the AVP-18 accepts only digital sources, thus permitting the DAC and following analog stages to include the same innovative technology utilized in several of NuForce's high-end audio DACs. In addition, the AVP-18 offers audiophile-grade analog circuitry throughout, along with a high-precision analog volume control and superior-quality RCA output connectors, all of which contribute to the AVP-18's pristine clarity. For the headphone enthusiast, the unit also includes a headphone output that provides both standard 2-channel and Dolby surround listening.

Unlike many similar processors, switching between HDMI inputs on the AVP-18 is smooth and precise. The HDMI output and all four HDMI inputs are fully HDMI 1.4 compliant with 3D, CEC and ARC support. For the last word in flexibility, the AVP-18 also accepts an ARC input from your TV. Indeed, the AVP-18 is so feature-packed we can't list everything here. (For further information, please see Features section below.)

While casual users will find initial setup a breeze, the AVP-18 still provides the demanding audiophile all of the controls necessary to customize performance to the highest levels of precision. To get started, connect your digital sources, plug in the calibration microphone (included), and activate the automatic multi-channel room correction software to adjust for the inevitable acoustic anomalies typical of most rooms. Once done and with all settings now stored in memory, you can start enjoying the latest HD audio and video media with the assurance that you are experiencing the kind of accurate, transparent and musical sound upon which NuForce's reputation rests.

While the AVP-18's automatic calibration routine makes getting started simple and straightforward, the serious audiophile still has the opportunity to seek perfection by way of an advanced array of calibration options including:

- Quadruple-bass-management settings
- Eleven programmable, fully parametric equalizers per channel
- Adjustable speaker crossover points, slopes and alignment types
- Subwoofer outputs

With the AVP-18 as its cornerstone, you'll have the ideal foundation for building the ultimate audiophile HT system. Add one of our highly acclaimed MCH and MCA Series multi-channel amplifiers, a full compliment of our award winning Reference Series mono-block amplifiers, or some combination thereof and you'll find yourself immersed in a universe of true audiophile cinema and sound.

Accessories

- Power cord - 1
- AVP-18 Remote Control - 1
- AAA size batteries - 2
- Setup mic for room equalization - 1

Features

AVP-18 is the latest AV Processor supporting HDMI 1. 4.

Audio

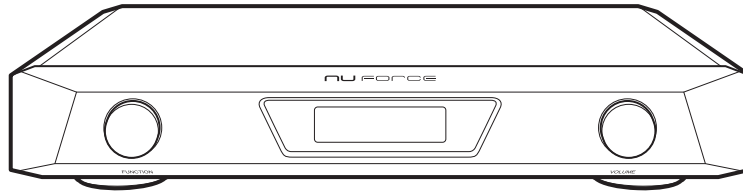
- Supports the latest HD audio decoding, including Dolby TrueHD, Dolby Digital Plus, DTS Master, DTS Hi Res, etc.
- SD audio decoding compatible with Dolby Digital (EX), DTS, DTS ES (D6. 1, M6. 1), AAC 5. 1, AAC 2. 0, DTS 96/24 or 192K 7. 1 CH PCM
- Perfect matrix decoding function such as Dolby Pro Logic, DTS Neo:6
- Intelligent room acoustic scanning feature
- 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
- Comes with an equalizer of eleven different options and setting
- Comprehensive cross-over design

Video

- HDMI 1. 4 input / output
- 4-way HDMI input, 1-way HDMI output and HDMI high-speed switching technology
- Supports HDMI 1080P, YUV, RGB, DVI, HD audio, and 8 CH LPCM
- Compatible with 3D video playback
- Compatible with HDMI CEC control
- Compatible with HDMI ARC audio return
- Video input compatibility: HDMI/DVI, 480P, 576P, 720P50, 720P60, 1080i 50, 1080i 60, 1080P 50, 1080P 60, 1080P 24

QUICK START GUIDE

Front Panel Feature



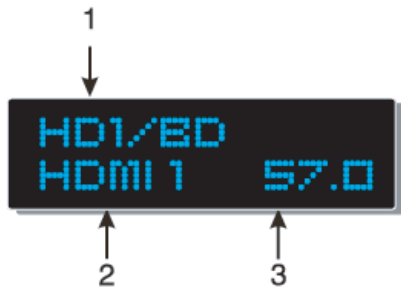
Left knob

- Input selection by turning the knob
- OSD Menu Selection by by turning the knob, then press to confirm selection

Right knob

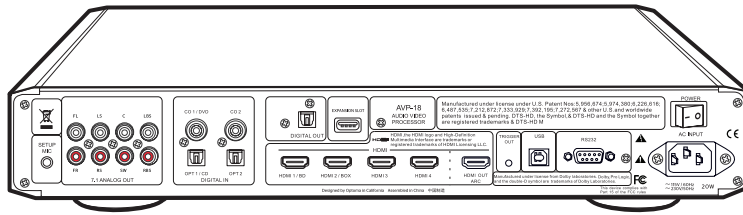
- Volume adjustment
- Selecting OSD menu option
- Power on by pressing and holding the right knob

On Screen Display



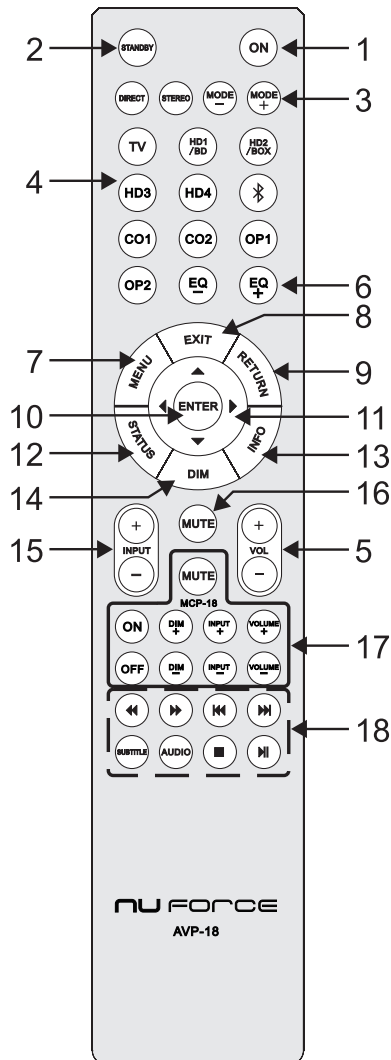
1. Video Input source information
(Displays the selected input source, factory default is set at HDMI 1 input)
2. Audio input source information
(Displays the source of audio signal)
3. Volume information
(Displays the volume (00.0 - 80.0 dB))

Rear Panel Connections



- Setup Mic - connecting the set up mic for intelligent acoustic room scanning
- 7.1 Analog Output - for connecting speaker of different position
 - ⌋ FL - front left
 - ⌋ FR - front right
 - ⌋ LS - Left surround
 - ⌋ RS - Right surround
 - ⌋ C - Center
 - ⌋ SW - Subwoofer
 - ⌋ LBS - Left back surround
 - ⌋ RBS - Right back surround
- Digital In - for connecting digital source
 - ⌋ CO1 - coaxial input # 1
 - ⌋ CO2 - coaxial input # 2
 - ⌋ Opt1/CO - optical / coaxial input # 1
 - ⌋ Opt2 - optical input # 2
- HDMI - 4 sets of HDMI input and 1 set of HDMI output
 - ⌋ HDMI input # 1
 - ⌋ HDMI input # 2
 - ⌋ HDMI input # 3
 - ⌋ HDMI input # 4
 - ⌋ HDMI output / ARC
- Trigger Out - triggering output of 12V / 120 mA, used for connecting to another device with triggering function
- Digital out
- USB - for connection between AVP-18 and a computer, mainly used for firmware upgrade
- RS-232 - Serial com port
- Power - rear power switch of AVP-18

Remote Control



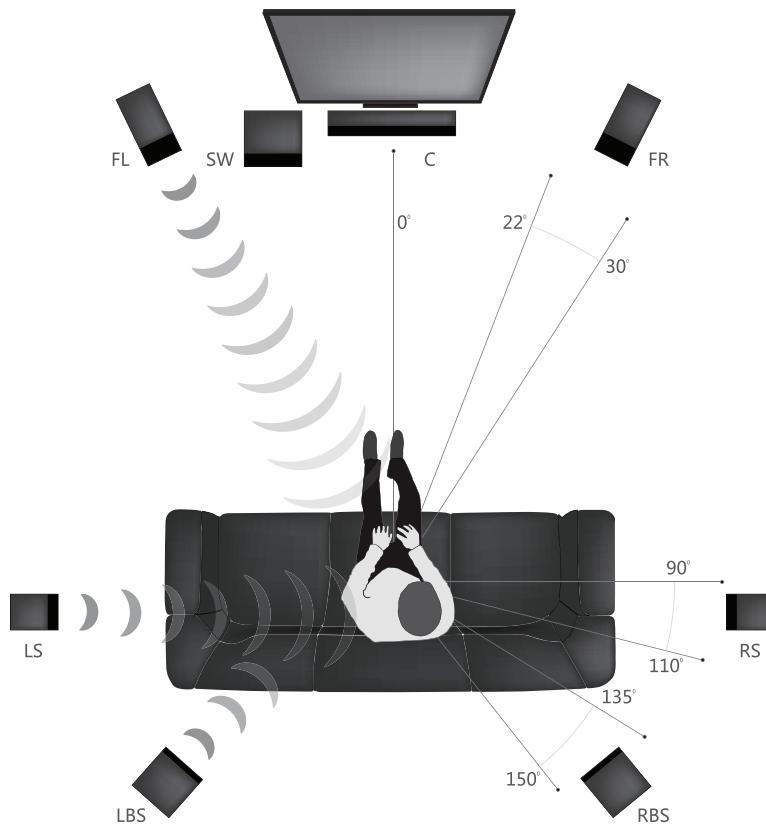
1. On - Power on button
2. Standby - turn the unit into standby mode
3. Listening mode select - switch between listening modes
 - A. Stereo - sound will be transmitting through left, right speakers and subwoofer.
 - B. Direct - Audio signal from input source will be directly transmitted with minimum processing.
 - C. DSP - this allows you to select different listening scene according to your preference.
 - D. Dolby Pro Logic IIX - extend any 2 channel signal source to play 7.1 channel surround sound. It provides a natural and uninterrupted surround sound effect. It can also optimize your experience with home gaming console. It comes with 2 different setting one for music and the other one for movie.
 - E. Dolby Digital - Supports media with Dolby Digital and provides sound effects as you are in a movie theatre or a concert hall.
 - F. Dolby EX - Extend a 5.1 CH source to a 6.1 CH source by using special Dolby EX matrix encoding surround sound technology.
 - G. Dolby Digital Plus - Specially designed for HDTV, supports 7.1CH up to 48 kHz sampling rate.
 - H. Dolby TrueHD - It is designed based on an extra storage space for new Blu-ray and HD DVD disc format. This format can support 7.1 CH up to 48 / 96 kHz and 5.1 CH up to 192 kHz sampling rate.
 - I. Neo:6 - this mode can extend any 2 channel signal source to play as 7.1 CH with seven different matrix-encoding.
 - J. DTS - DTS digital surround sound formats supports 5.1 separating channels and use compression techniques to provide hi-fi effects. Only support media with DTS marking.
 - K. DTS-ES - this mode is designed for DTS-ES Discrete and DTS-ES Matrix sound tracks, supports media with DTS-ES trademarks.
 - L. DTS-Master - designed to utilize the extra storage space on Blue-ray and HD DVD disc, supports 48/96 kHz with 7.1 separated channel in digital audio and 192 kHz for 5.1 CH.
 - M. DTS Hi Res - a compression technology that collects the high resolution in the audio, designed for HDTV. Supports 7.1 CH up to 96 kHz sampling rate.
4. Input selections - select input accordingly
5. Volume adjustment
6. EQ mode - select preset EQ settings
7. Menu button - opens up on-screen menu
8. Exit button - exit from on-screen menu
9. Return button - return to the previous screen on the menu
10. Enter button - confirm selection on the on-screen menu
11. Arrow keys - move cursor according to the direction on the on-screen menu
12. Status- display the currency input source and listening mode
13. Info - display the input source format
14. Dim - adjust the brightness on the unit display
15. Input +/- - change the input source
16. Mute button
17. Remote function for MCP-18
18. DVD/BD player control

MAKING CONNECTION

Connecting the Speakers

- Unplug all power cords before connecting the speakers
- Follow the instruction manual of the speakers
- Make sure the correct polarity is connected
- Please connect one speaker per connector
- A over-lengthed speaker cable might effect the sound quality
- Short circuiting on the cable might damaged the amplifier
- Please make sure the core of the cable is not in contact of the rear panel of the unit
- Connecting mutiple cables to one speaker might damage the amplifier

Positioning Your Speakers



C	Center Channel Speaker	RS	Surround Right Speaker
FR	Front Right Speaker	LS	Surround Left Speaker
FL	Front Left Speaker	RBS	Surround Back Right Speaker
SW	Subwoofer	LBS	Surround Back Left Speaker

Connecting Input/Output Devices

Note:

- *Please read the instructions before connecting any devices to AVP-18, once the devices are connected, please check all connection is in tact before turning on the power.*
- Optical Digital Input
 - ⌚ The optical digital input is equipped with active protected cover which will automatically open and close up when the optical cable is plugged in or unplugged
- Connecting your cables
 - ⌚ The red color input refers to right-channel and the white color input refers to the left channel
 - ⌚ Please make sure the cable is fully plugged in for best connection
 - ⌚ To avoid interference, please place audio/video cables away from the power/speaker cables

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

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.

1. Enter the on-screen menu and go to **Setup**.
2. Select the option **Auto Room EQ**.
3. Follow the on screen instructions to complete the testing process.

