



SONANCE®

## **INSTRUCTION MANUAL**

**SONAMP® MULTI-CHANNEL POWER AMPLIFIER**  
**WITH SONARC**  
**DSP 2-750**

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# INSTRUCTION MANUAL

## SONAMP® MULTI-CHANNEL POWER AMPLIFIER WITH SONARC DSP 2-750



### Important Safety Information

You should always follow these basic safety precautions when using your Sonamp DSP 2-750, to reduce the risk of fire, electric shock, and injury to persons:

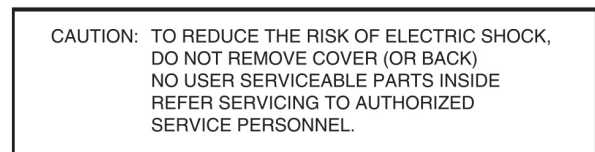
1. **Read and retain instructions:** Read all the safety and operating instructions before operating the amplifier, and retain them for future reference.
2. **Heed warnings:** Adhere to all warnings and precautions listed on the amplifier and in the operating instructions.
3. **Follow instructions:** Follow all operating instructions.
4. **Water:** Never use the amplifier next to water.
5. **Carts and stands:** The amplifier should be used only with a cart or stand that is recommended by the manufacturer. An amplifier and cart combination should be moved with care. 
6. **CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THE POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLETS UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**
7. **Ventilation:** Situate the amplifier so that its location does not interfere with its proper ventilation.
8. **Heat:** Situate the amplifier away from heat sources such as radiators, stoves, or other appliances (including amplifiers) that produce heat.
9. **Grounding or polarization:** Grounding or polarization are precautions that should be taken so that these attributes are not defeated.
10. **Power-cord protection:** Route power supply cords so that they will not be walked on or pinched by items placed on or against them.
11. **Cleaning:** To clean the amplifier, use "canned air" or wipe the amplifier with a soft cloth. Do not use solvents, as they may damage the amplifier.
12. **Non-use periods:** Unplug the amplifier's power cord from the outlet when the amplifier will be left unused for a long period of time.
13. **Object entry:** Care should be taken so that objects do not fall through the opening of the enclosure.
14. **Moisture:** Do not expose the amplifier to dripping or splashing. Do not place objects filled with liquids, such as vases, on the amplifier.
15. **Damage requiring service:** Have the amplifier serviced by a qualified service personnel when:
  - The power supply cord or the plug has been damaged.
  - Objects have fallen, or liquid has been spilled into the amplifier.

- The amplifier has been exposed to rain.
- The amplifier does not appear to operate normally or exhibits a marked change in performance.
- The amplifier has been dropped, or the enclosure damaged.

16. **Servicing:** The user should not attempt to service the amplifier beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
17. **Lifting:** Improper lifting of the 23.3 lbs. DSP 2-750 amp can cause personal injury.
18. **Power requirement:** Do not connect the Sonamp to the accessory outlet of any other component. A minimum 15 amp (20 amp preferred) grounded wall outlet is required.

**WARNING: THE POWER (MAINS) PLUG SERVES AS THE AMPLIFIER'S DISCONNECT DEVICE. THE DISCONNECT DEVICE SHALL REMAIN READILY OPERABLE DURING OPERATION. TO ENSURE THAT THE DISCONNECT DEVICE (POWER PLUG) IS EASILY ACCESSIBLE, THE USER SHALL NOT PLACE THE AMPLIFIER IN A CONFINED AREA DURING OPERATION.**

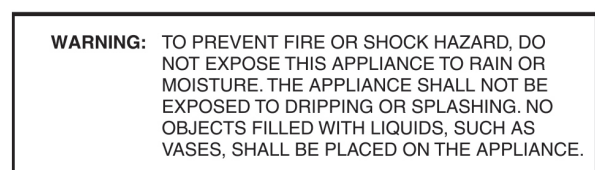
19. **Storms:** To prevent damage to components, unplug all electronic equipment during thunderstorms.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



# INSTRUCTIONS IMPORTANTES CONCERNANT LA SÉCURITÉ

1. Lisez soigneusement ces instructions.
2. Conservez-les en lieu sûr pour toute référence future.
3. Respectez scrupuleusement tous les avertissements de sécurité.
4. Suivez toutes les instructions indiquées.
5. Ne pas utiliser cet appareil près de l'eau.
6. Nettoyez cet appareil uniquement avec un chiffon sec.
7. Ne jamais obstruer ses ouïes de ventilation. Installez cet appareil suivant les instructions recommandées par son fabricant.
8. Ne jamais installer cet appareil près d'une source de chaleur, comme les radiateurs, bouches de chaleur, fours et tout autre appareil (y compris les amplificateurs de puissance) générant de la chaleur.
9. Ne jamais démonter la prise polarisée ou la broche de mise à la terre de la prise secteur. Une prise polarisée possède deux lames, l'une étant plus large que l'autre (standard américain). Une prise avec mise à la terre possède trois broches, dont une centrale déportée par rapport aux deux autres. Ces différents brochages ont été conçus pour votre sécurité. Si la prise de l'appareil ne rentre pas dans la prise d'alimentation secteur de votre installation, veuillez consulter un électricien agréé pour le remplacement de la prise murale (certainement pas aux normes actuelles).
10. Protégez le câble d'alimentation secteur de telle manière qu'il ne puisse pas être écrasé ou pincé, particulièrement au niveau des prises, du passage dans des goulettes prévues à cet usage, ou à l'endroit où il sort de l'appareil.
11. N'utilisez que les systèmes de fixation et accessoires prévus et conseillés par le fabricant.
12. N'utilisez que des tables, supports, pieds, bras de fixation prévus ou conseillés par le fabricant, ou vendus avec l'appareil. Si un support mobile est utilisé, toujours procéder avec une grande précaution lors du déplacement de ce support afin d'éviter que l'appareil ne tombe et puisse blesser physiquement une personne.
13. Débranchez complètement l'appareil pendant un orage ou une longue période de non-utilisation.
14. Pour toute intervention sur l'appareil, adressez-vous exclusivement à du personnel qualifié et agréé. Une intervention s'avérera nécessaire si l'appareil a été endommagé, pour quelque raison que ce soit, et par exemple si le câble d'alimentation secteur ou sa prise sont endommagés, si du liquide a pénétré à l'intérieur de l'appareil, ou un objet y est tombé, ou bien si l'appareil a été exposé à la pluie ou à l'humidité, ou bien est tombé, ou encore ne fonctionne pas de manière normale.
15. Ne jamais exposer cet appareil à des risques de coulures ou d'éclaboussures de liquides ; ne jamais poser d'objets remplis de liquide – comme des vases, sur l'appareil.



Le symbole de l'éclair terminé par une pointe de flèche, dans un triangle équilatéral, est utilisé pour indiquer à l'utilisateur la présence d'une tension électrique potentiellement dangereuse, à l'intérieur de l'appareil, d'un niveau suffisamment élevé pour présenter des risques d'électrisation aux personnes physiques.



Le symbole du point d'exclamation, dans un triangle équilatéral, est utilisé pour indiquer à l'utilisateur, dans les manuels accompagnant l'appareil, la présence d'un point très important, concernant le fonctionnement ou la maintenance de l'appareil, à respecter impérativement.

**ATTENTION: POUR RÉDUIRE TOUT RISQUE D'ÉLECTROCUTION, NE JAMAIS EXPOSER CET APPAREIL À LA PLUIE OU L'HUMIDITÉ.**



**ATTENTION**

**RISQUE D'ÉLECTRISATION  
NE PAS OUVRIR**



**ATTENTION :** AFIN DE RÉDUIRE LES RISQUES D'ÉLECTRISATION, NE JAMAIS ÔTER LE CAPOT DE L'APPAREIL. IL N'Y A À L'INTÉRIEUR AUCUNE PIÈCE SUSCEPTIBLE D'ÊTRE MODIFIÉE PAR L'UTILISATEUR. TOUJOURS FAIRE APPEL À UN TECHNICIEN AGRÉÉ.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** 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 generates, 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.

## Introduction

Thank you for purchasing the Sonance Sonamp DSP 2-750 amplifier. When properly installed, this amplifier will give you many years of entertainment pleasure. To get the most out of your new amplifier, please read this manual thoroughly before you begin installation.

To achieve the best performance, Sonance recommends that this amplifier be installed by a Sonance Authorized Dealer/Installer.

## Box Contents

**Your Sonamp DSP 2-750 box should contain:**

- (1) Instruction manual
- (1) Network Connection Instructions
- (1) Sonamp DSP 2-750 amplifier
- (1) IEC power cord
- (4) Feet
- (2) Rack ears

## Unpacking

Save the carton and polystyrene inserts for future safe transport in case the amplifier is moved or requires shipping for repair.

Before proceeding with installation, locate the serial number on the rear panel of the unit and note it here for future reference:

S/N: \_\_\_\_\_

## Placement

Place the amplifier on a level surface, in an upright position, out of direct sunlight and away from windows through which rain may enter.

Situate the amplifier away from heat sources such as hot air ducts or radiators. Be sure that the amplifier is adequately ventilated by convection or suitable cabinet fans.

- Never place any object on or against the amplifier.
- Never operate the amplifier on a carpeted surface as this will compromise ventilation.
- When the amplifier is installed in any cabinet, the front or back must be open during operation. Alternately, install fans in the cabinet to assure continuous ventilation.

FIGURE 1: SONAMP DSP 2-750 MULTI-CHANNEL POWER AMPLIFIER

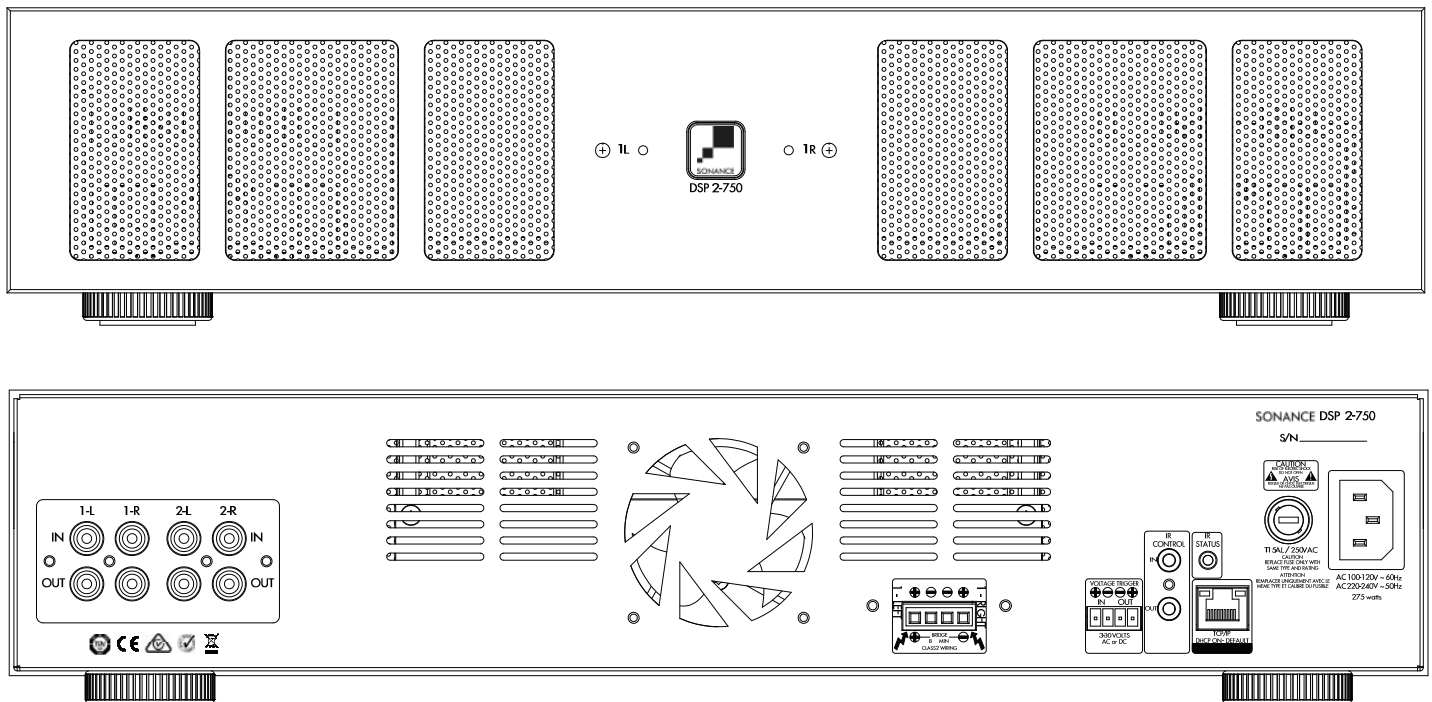
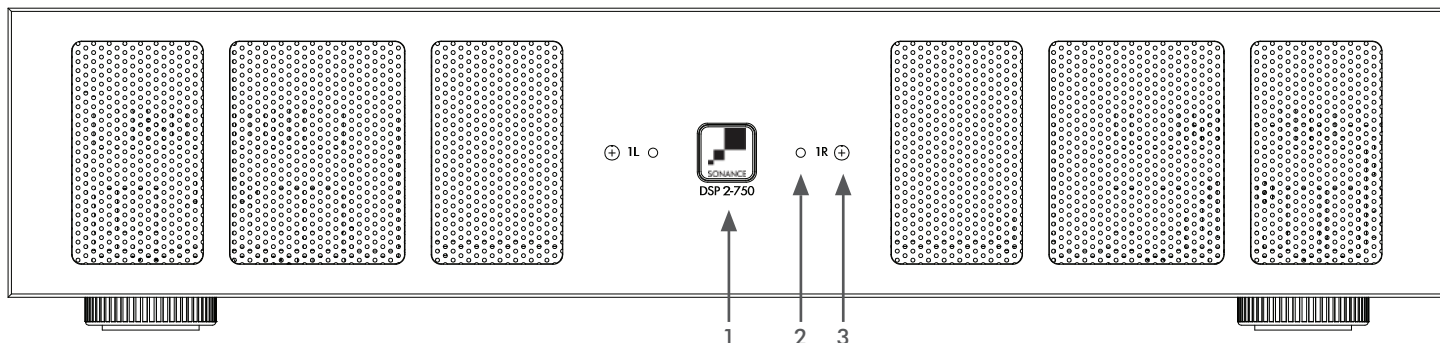


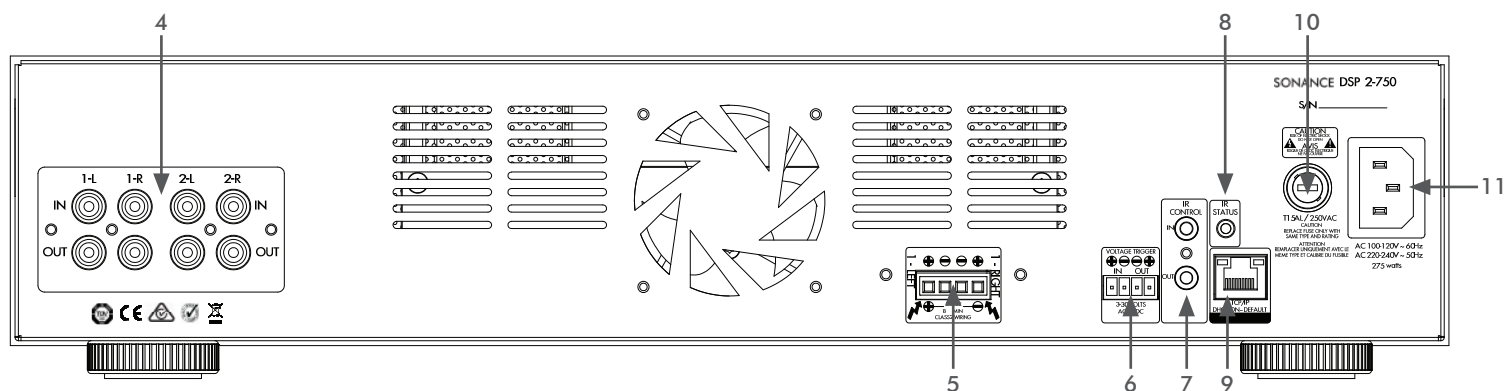
FIGURE 2: SONAMP DSP 2-750 MULTI-CHANNEL POWER AMPLIFIER FRONT PANEL



## DSP 2-750 Front Panel

1. Illuminated Power Button
2. Power, Active & Protection Indicator LED
3. Recessed Volume Level Control

FIGURE 3: SONAMP DSP 2-750 MULTI-CHANNEL POWER AMPLIFIER BACK PANEL



## DSP 2-750 Rear Panel

4. L/R Line In/Loop Outputs
5. Speaker Block Connector with protective cover removed
6. Trigger Input/Output Connector
7. IR Control In/Out
8. IR Status Light
9. RJ-45 Input
10. AC Fuse Holder
11. Power Cord Connection

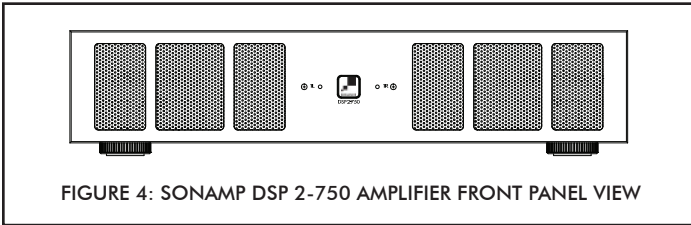


FIGURE 4: SONAMP DSP 2-750 AMPLIFIER FRONT PANEL VIEW

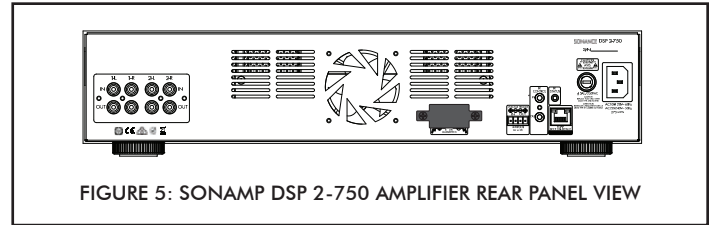


FIGURE 5: SONAMP DSP 2-750 AMPLIFIER REAR PANEL VIEW

## Front Panel

### Power Switch

The power switch turns the amplifier on and off.

When the Sonance logo on the power switch is lit solid white, the amplifier has power and is turned ON and ready to operate.

When the Sonance logo is slightly dimmed the amplifier is in standby mode.

When the Sonance logo on the power switch is blinking white, the amplifier power supply is in thermal protection. The channel LEDs will also light red when the power supply is in thermal protect mode.

**NOTE:** Upon initial power up there will be an approximately 12 second boot up cycle. This is normal.

### Input/Output Lights

When each channel is active, the LED will light green as long as a signal is present.

When the LED blinks red, this is an indication that the channel is being overdriven.

When the LED lights are solid red this is an indication the amplifier is in protect mode. While in protect mode the LED lights will periodically light green to retest the output to determine if the short has been removed. Protect mode could be caused by a short in the wire, overheating of the amplifier or possibly an internal problem with the amplifier.

**NOTE: WHEN ANY OF THE LEDS ARE LIT RED TURN THE AMPLIFIER OFF IMMEDIATELY. DETERMINE THE CAUSE OF THE PROBLEM BEFORE TURNING THE AMPLIFIER ON.**

### Volume Level Control

Each channel on the amplifier has volume adjustments found in the SONARC software or from the front panel recessed volume controls.

## Rear Panel

### Line Inputs/Loop Outputs

The DSP 2-750 amplifier has LINE INPUTS and loop OUTPUTS.

The loop outputs are non buffered, the maximum number of amplifiers that can be looped together will depend on the output capability of your source component

### Speaker Connections

The removable block connectors used on the Sonamp amplifiers will accept up to 12 gauge wire.

Follow the connection layout on the rear panel of the amplifier. Make sure no bare wires come in contact with the amplifier chassis. When bridging channels, use the two outside connections on each connector. The positive wire from the speaker should be on the left side connection and the negative connection should be on the right side.

To avoid shock or shorts use the included block connector protective cover (see Figure 5).

### Auto On - Voltage In/Out Trigger

The Sonamp amplifiers can be turned on and off using 3-30 volts AC or DC. The Voltage Output supplies a 12 volt DC signal to control additional amplifiers or other equipment.

### IR Control

IR control is via the IR control In/Out jacks. IR controls On/Off, volume, muting and input source selections. Connectivity can be seen with IR status light.

### IP Control

IP control is via the RJ-45 input. IP controls power On/Off, volume, muting and input source selections.

### AC Fuse Holder

To replace the fuse, unplug the power cord from the Power Cord Connector and use a screwdriver to remove the fuse holder.

DSP 2-750 - 15 amp AC (T15-AL)

**CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE THE FUSE WITH ONLY THE SAME TYPE AND RATING.**

### Power Cord

The Sonamp amplifiers feature removable IEC power connectors. Plug the female end of the power cord into the Power Cord Connector on the amplifier rear panel and plug the male end into a grounded wall socket.

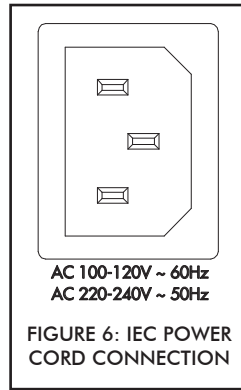
DO NOT plug the amplifier's power cord into a convenience outlet on any other audio or video component. If you need to use an extension cord, use only a heavy duty (14-GAUGE OR LARGER) extension cord to avoid starving the amplifier of the current necessary for full operation.



## Powering the Amplifier

The Sonamp DSP 2-750 features a removable IEC power connector (Figure 6). A 14-gauge EIA standard 120-volt grounded power cable is included with the amplifier.

Each time the amplifier's power cord is initially plugged in and the POWER switch is turned ON, all channel outputs are disconnected for approximately 12 seconds and all PROTECTION LEDs will illuminate briefly while the amp boots up.



**IMPORTANT: DO NOT PLUG THE POWER CORD INTO THE WALL OUTLET UNTIL ALL SYSTEM CONNECTIONS HAVE BEEN MADE AND VERIFIED.**

Plug the female end of the power cable into the Power Connector on the amplifier's rear panel and plug the male end directly into a grounded 15 amp or 20 amp wall outlet.

**IMPORTANT: DO NOT PLUG THE AMPLIFIER'S POWER CORD INTO A CONVENIENCE OUTLET ON ANY OTHER AUDIO OR VIDEO COMPONENT.**

If the electrical service is subject to frequent sags, spikes, or brownouts, a power conditioner designed for use with high fidelity equipment should be employed to protect the amplifier.

**CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE THE FUSE WITH ONLY THE SAME TYPE AND RATING.**

## Source Connections/Selection DSP 2-750

There are two options when connecting audio inputs to the DSP 2-750 amplifier (see Figure 8):

**Primary Line Inputs 1-L, 1-R** - Use these inputs for primary audio source.

**Secondary Line Inputs 2-L, 2-R** - Use these inputs for a secondary audio source, paging, or a doorbell.

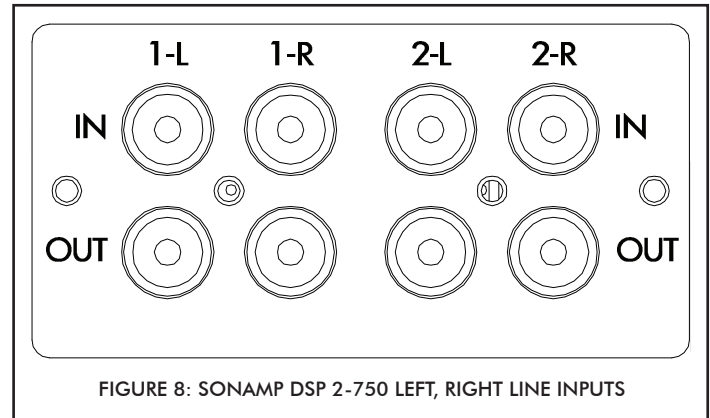


FIGURE 8: SONAMP DSP 2-750 LEFT, RIGHT LINE INPUTS

### Amplifiers Power Requirements:

Model	Input Voltage	Output Power (sinewave)	Draw Watts	15 AMP Breaker Qty of Amplifiers	20 AMP Breaker Qty of Amplifiers
DSP 2-750	100-120V AC	Full Power All Channels @8 ohms	1280	1	1
		Full Power All Channels @4 ohms	1780	1	1
		1/8 Power All Channels @8 ohms	212	6	9
		1/8 Power All Channels @4 ohms	270	5	7
		@ Idle	75		
		IP/IR Standby	2.0		
		@ Standby	0.4		
Model	Input Voltage	Output Power (sinewave)	Draw Watts	13 AMP Breaker Qty of Amplifiers	20 AMP Breaker Qty of Amplifiers
DSP 2-750	220-240V AC	Full Power All Channels @8 ohms	1220	1	1
		Full Power All Channels @4 ohms	1720	1	1
		1/8 Power All Channels @8 ohms	200	7	9
		1/8 Power All Channels @4 ohms	257	5	7
		@ Idle	70		
		IP/IR Standby	1.3		
		@ Standby	0.4		

FIGURE 7: SONAMP DSP 2-750 MULTI-CHANNEL AMPLIFIER POWER REQUIREMENTS



## Speaker Connections

For the best sound you should use premium speaker wire, that complies with fire rating codes. Be sure to check local codes governing wire that may be installed within walls or ceilings. Sonamp amplifiers are stable with any reputable brand of speaker wire or cable. The Sonamp amplifiers use speaker block connectors that can accommodate up to 12 gauge wire (see Figure 9).

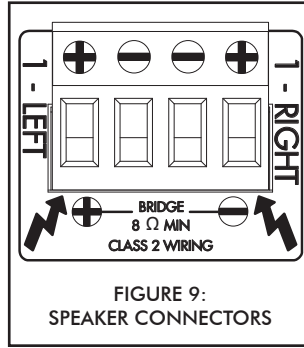


FIGURE 9:  
SPEAKER CONNECTORS

**NOTE: ALWAYS CHECK LOCAL BUILDING CODES BEFORE INSTALLING WIRE IN WALLS OR CEILINGS.**

## Bridging Channels DSP 2-750

**IMPORTANT: THE MINIMUM SPEAKER IMPEDANCE FOR BRIDGED OPERATION IS 8 OHMS. DO NOT OPERATE A ZONE IN THE BRIDGED MODE INTO A SPEAKER THAT IS LESS THAN 8 OHMS NOMINAL IMPEDANCE.**

Bridging channels is accomplished using the SONARC software. On the second page IN/OUT Settings go to the output setup area to bridge mode and make your selections with the drop down buttons.

1. Use the left audio input when operating the amplifiers output in bridged mode (see figure 10).
2. Select ON in the bridge mode (see figure 10).
3. Connect the speaker's "+" lead to the left side of the connector marked "+" (see Figure 11).
4. Connect the speaker's "-" lead to the right side of the connector marked "+" (see Figure 11).
5. Connect the line level audio input to the LEFT channel input on the amplifier.

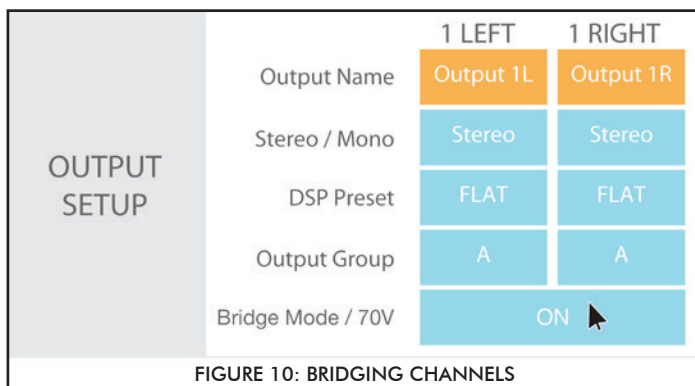


FIGURE 10: BRIDGING CHANNELS

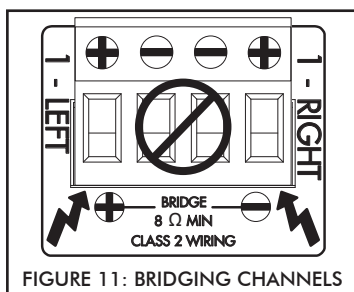


FIGURE 11: BRIDGING CHANNELS

## Source Connections DSP 2-750

On the left side of the rear panel are the audio inputs for the left and right channels. In addition to the left and right inputs there are also loop outputs for each channel.

The loop outputs allow multiple amplifiers to share common audio sources. The loop outputs on the amplifiers are not buffered. The number of amplifiers that can be connected in series will depend on the output level of your audio source. The source connected to the LEFT and RIGHT LINE IN Inputs pass through the LEFT and RIGHT LINE Outputs (see Figure 12).

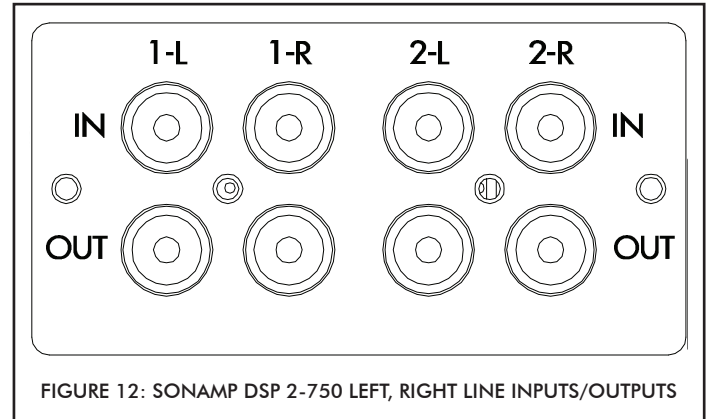


FIGURE 12: SONAMP DSP 2-750 LEFT, RIGHT LINE INPUTS/OUTPUTS

## Volume Level Control

Volume can be controlled from the individual recessed volume level control screws, located on the front panel (see Figure 13). These volume controls balance the desired sound levels per channel.

Volume can be controlled three different ways with SONARC (see Figure 14).

1. Output volume
2. Turn on volume
3. Maximum volume

Output volume ranges between -70 to 12.

**The volume level controls are set at 0.**

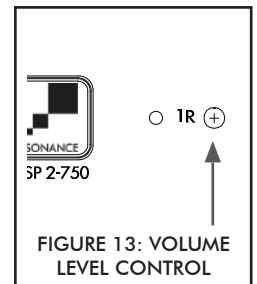


FIGURE 13: VOLUME  
LEVEL CONTROL

OUTPUT VOLUME	Output Volume	0	0
	Turn On Volume	6	6
	Maximum Volume	12	12
	Gain Offset	0	0
	Mute	OFF	OFF

FIGURE 14: SONARC PAGE IN/OUT SETTINGS OUTPUT VOLUME

**IMPORTANT: USE CAUTION WHEN SETTING VOLUME LEVELS EITHER ON THE AMPLIFIER OR AN AUDIO SWITCHER AS NOT TO OVERDRIVE AND POSSIBLY DAMAGE SPEAKERS. VERIFY ALL SOURCES AS OUTPUT VOLTAGE VARIES FROM DEVICE TO DEVICE.**

## Protection Circuitry and LEDs

The Sonamp amplifiers have a multi-stage protection system to prevent damage to your amplifier and speakers.

### Amplifier Channel Protection DSP 2-750

If a channel encounters a short-circuit (in bridged mode the protection circuitry will sense a short circuit across both positive speaker terminals), or extremely low impedance will cause the affected channel outputs to automatically mute. The output of the effected channel will remain muted until the fault has been corrected. Only the effected channels output will mute, all other channels will continue to operate normally.

### Amplifier Channel Protection Indication DSP 2-750

On the front panel of the Sonamp DSP 2-750 amplifiers are dual color LEDs that illuminate to indicate the current operating status of each amplifier channel.

When the LED blinks red this is an indication that the channel is being overdriven.

When the LED lights are solid red this is an indication the amplifier is in protect mode. While in protect mode the LED lights will periodically light green to retest the output to determine if the short has been removed. Protect mode could be caused by a short in the wire, overheating of the amplifier or possibly an internal problem with the amplifier.

**IMPORTANT: ALLOWING THE AMPLIFIER TO OPERATE WITH ONE OR MORE CHANNELS IN PROTECT MODE FOR AN EXTENDED PERIOD OF TIME CAN DAMAGE THE AMPLIFIER.**

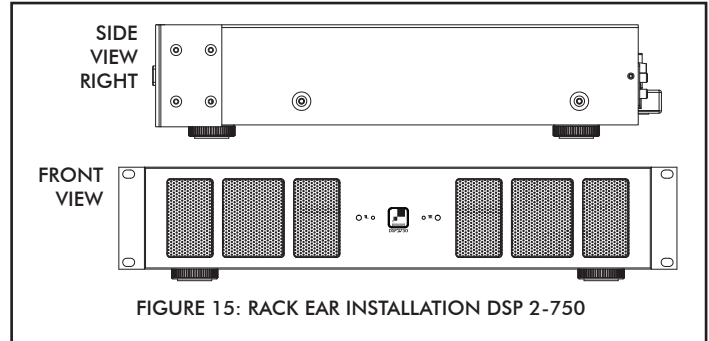
### Amplifier Power Supply Protection DSP 2-750

The amplifier also has protection for the power supply. If the power supply heat sink temperature exceeds the design maximum, the protection circuit will activate, disconnecting all channel outputs. This is indicated by a blinking light on the front panel power switch.

**IMPORTANT: ANY TIME THE PROTECTION CIRCUITS ARE TRIGGERED, UNPLUG THE AMPLIFIER'S POWER CORD FROM THE WALL OUTLET BEFORE TROUBLESHOOTING.**

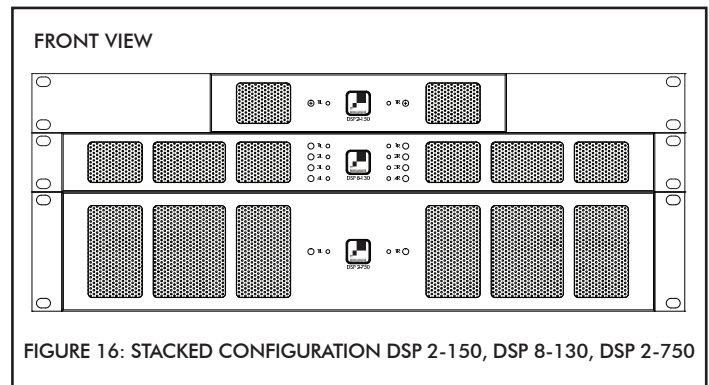
## Rack Ear Installation DSP 2-750

The DSP 2-750 ships with two rack ears. Unscrew the four Phillips head screws (M4 x 0.7 pitch x 10mm long) found on each side of the left and right forward section of amplifier. Use these screws to connect the included rack ears to the amplifier (see Figure 15).



## Amplifier Stacking

The DSP 2-750 is capable of being directly stacked with the feet removed (see Figure 16) for use in low to moderate output applications. For high-output applications, it is recommended to leave at least 1U space between amplifiers for increased ventilation.



## Shelf Mounting

If shelf mounting, attach the four included feet by screwing them into the threaded openings, no tool is required.

# NETWORK CONNECTION INSTRUCTIONS

## Equipment List for Mac and PC

1. Computer or tablet
2. Network router with DHCP service enabled
3. Two RJ-45 cables (one when using wireless)

## Color Coded Interface

Toggle/Pull-down Menu



Free Type Field



Single Action Menu



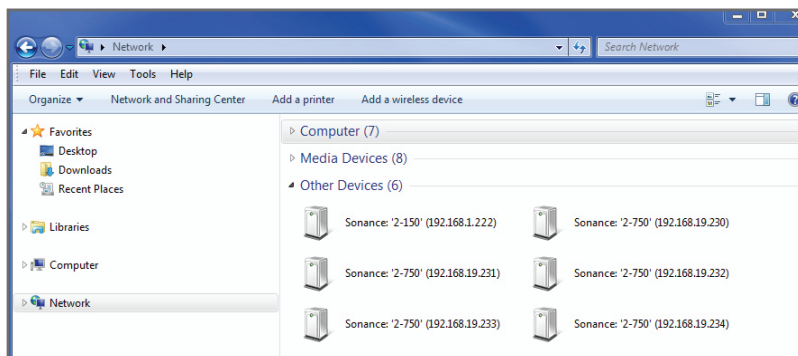
## Macintosh DHCP

1. The amplifier factory settings has DHCP set to ON.
2. Connect the amplifier to a network with router.  
Make sure the computer and amplifier are on the same network.
3. Turn on the amplifier.
4. The amplifier will be issued an IP address by the router.
5. Use an IP Scanner to determine the IP Addresses of the Sonance DSP amps on the network.  
We recommend Fing app for IOS. <https://itunes.apple.com/us/app/fing-network-scanner/id430921107?mt=8>
6. Network devices will show up and the amplifier will be named **Sonance**.
7. Open up Safari or Chrome for Mac.  
In the URL address window at the top enter the IP address of the Sonance DSP amplifier to configure.

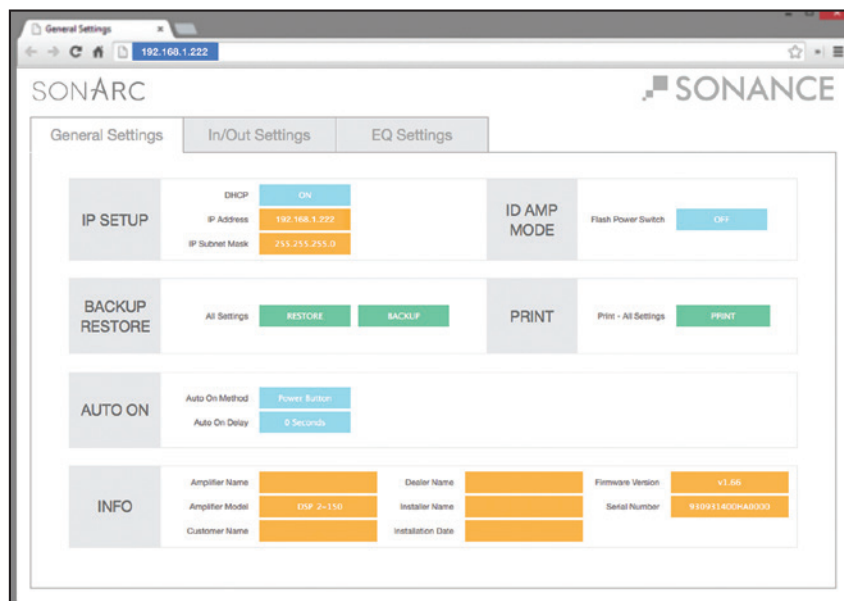
## NETWORK CONNECTION INSTRUCTIONS

### Windows DHCP

1. The amplifier factory settings has DHCP set to ON.
2. Connect the amplifier to a network with router.  
Make sure the computer and amplifier are on the same network.
3. Turn on the amplifier.
4. The amplifier will be issued an IP address by the router.
5. Click on Start and select Computer ("This PC" Windows 7 or 8 or higher).
  - a. For Windows XP download **Advanced IP for Windows** - <http://www.advanced-ip-scanner.com>



6. Select the Network from the list on the left.
7. Double click on the Sonance DSP amplifier, for example **Sonance '2-150' (192.168.1.222)**, you want to configure under "Other Devices".  
A browser will automatically open and you will see the General Settings page.



## Quick Setup Page

If you will be using the Sonance DSP amplifier with a control system and only want to make basic changes to the SONARC software these instructions will guide you through the process.

### Quick Setup

Follow the SONARC Network Setup instructions to access the SONARC software.

#### General Settings Tab - Auto On

Select the AUTO ON method you would like to use.

*NOTE: IF EITHER AUDIO OR VOLTAGE TRIGGERS ARE SELECTED, THE AMPLIFIER HAS A 12 SECOND CYCLE TIME FROM STANDBY TO PLAY AN AUDIO SIGNAL. THIS IS NORMAL AND REQUIRED TO COMPLY WITH THE EU < .5 WATT ERP DIRECTIVE. (EC/1275/2008). SELECT OFF TO BYPASS THIS FEATURE. SEE POWER CONSUMPTION TABLE FOR IDLE POWER USE (SEE PAGE 6, FIGURE 7). AUDIO AUTO ON IS THE ONLY MODE THAT ALLOWS THE AMPLIFIER TO DRAW 0.5 WATTS AT STANDBY.*

*NOTE: WHEN VOLTAGE, POWER BUTTON, IP OR IR IS SELECTED THE AMPLIFIERS POWER SAVING FEATURE WILL BE DISABLED.*

#### In/Out Settings Tab - Output Setup

Select the preloaded DSP preset that matches your Sonance speaker.

If the DSP preset for your Sonance speaker is not included in the amplifier, follow the instructions to the right to add DSP presets.

#### In/Out Settings Tab - Output Source

The amplifier default is Input 1 to Output 1, Input 2 to Output 2, etc. If your application is different, assign the correct input to each of the output channels you will be using. Any left Input can be assigned to any left Output. Any right Input can be assigned to any right Output.

#### In/Out Settings Tab - Output Volume

If you are using a control system to adjust the volume you can skip these steps.

1. Set the Output Volume for each channel.
2. Set the Turn On Volume the same as the Output Level.
  - a. Its important to set the Turn On Volume the same in case the amplifier power is shut off accidentally.

The basic setup is complete!

### Apply DSP Preset

Follow the SONARC Network Setup instructions to access the SONARC software if not completed already.

Each Sonance DSP amplifier has 50 slots with pre-configured DSP curves for Sonance speaker models pre-loaded. If the speaker model in your application is not on the pre-loaded list, hundreds of DSP files are available for download from the Sonance website.

#### Sonance Website

Download the preset for your specific Sonance speaker model at [www.sonance.com/electronics/amplifiers/dsp](http://www.sonance.com/electronics/amplifiers/dsp)

DSP presets are also available for download on individual speaker web pages.

Save the new preset in a location on your computer you will be able to find later.

#### EQ Settings - Tab

1. In the blue box labeled SELECT EQ PRESET choose which preset number you would like to use to store your new EQ Preset. You can overwrite presets you will not use.
2. Press the Green Import Single EQ Preset button.
3. Select the file you downloaded from the Sonance website.
4. The file will now be loaded into the preset location you have selected.
5. If necessary edit the name of the preset.

#### In/Out Settings Tab - Output Setup

Select the new EQ Preset from the drop down list and apply it to the appropriate amplifier channels.

Your new EQ preset has been applied!

You can now apply the EQ preset to the channel on the EQ Settings page at the top.

## Color Coded Interface

Toggle/Pull-down Menu



Free Type Field



Single Action Menu



General Settings	In/Out Settings	EQ Settings
<b>IP SETUP</b> DHCP <span>ON</span> IP Address <span>192.168.1.222</span> IP Subnet Mask <span>255.255.255.0</span>	<b>ID AMP MODE</b> Flash Power Switch <span>OFF</span>	
<b>BACKUP RESTORE</b> All Settings <span>RESTORE</span> <span>BACKUP</span>	<b>PRINT</b> Print - All Settings <span>PRINT</span>	
<b>AUTO ON</b> Auto On Method <span>Power Button</span> Auto On Delay <span>0 Seconds</span>		
<b>INFO</b> Amplifier Name <span>LS48-V10</span> Amplifier Model <span>DSP 2-750</span> Customer Name <span></span>	Dealer Name <span></span> Installer Name <span></span> Installation Date <span></span>	Firmware Version <span>v1.66</span> Serial Number <span>930951400HA0000</span>

## ACCESSING SONARC

In order to access the SONARC software on a DSP amplifier the amplifier needs to be on and connected to a router. The router will provide the DSP amplifier with an IP address automatically.

Using a Windows computer running Windows 7 or 8 the amplifier can be found in your network connections. The DSP amplifiers feature UPnP (Universal Plug and Play) allowing them to be displayed as easily accessible network devices. When multiple amplifiers are connected to the same network they will appear individually.

To find the IP address on a Mac computer or iOS device you will need to use an IP address scanner software or app. The manufacturer name should be displayed as Sonance on the DSP amplifier in your IP scanning software.

Once you have the IP address you can use any internet browser to access the SONARC software. Type the DSP amplifier's IP address into the URL address window. When the page loads you should be presented with the SONARC General Settings tab.

## IP SETUP

## DHCP On/Off

DHCP ON / OFF is the first option in IP SETUP. All Sonance DSP series amplifiers ship with DHCP (Dynamic Host Connection Protocol) ON. In most installations DHCP should be left ON. If you are controlling the DSP series amplifier using IP then we suggest you turn DHCP OFF and use a static IP address.

## IP Address

The second setting in the IP SETUP section is the IP address.

When DHCP is ON the current IP address will be displayed. To change the IP address DHCP must be set to OFF.

When DHCP is turned off the IP address that the router assigned to the amplifier will still be applied. This IP address is a good place to start since it is not being used by another network device. If you wish to change the IP address you should perform a scan of the network and only assign an unused IP address within the range of your router. As a general rule only change the last three digits of the IP address in the amplifier settings and only assign numbers between 1 and 254. Following this suggestion will minimize the chance of making the amplifier inaccessible.

It is critical to type in the correct IP address. If the wrong IP address is entered, the amplifier could become inaccessible. Make changes to the IP settings only if you fully understand network setup.

## IP Subnet Mask

The third setting in the IP SETUP section is the IP Subnet Mask. This is an advanced network setup function. Under most circumstances this field should not need to be edited. Making changes in this field should only be done by experienced network administrators.



General Settings	In/Out Settings	EQ Settings
<b>IP SETUP</b> <div> DHCP <span>ON</span> </div> <div> IP Address <span>192.168.1.222</span> </div> <div> IP Subnet Mask <span>255.255.255.0</span> </div>	<b>ID AMP MODE</b> <div> Flash Power Switch <span>OFF</span> </div>	
<b>BACKUP RESTORE</b> <div> All Settings <span>RESTORE</span> <span>BACKUP</span> </div>	<b>PRINT</b> <div> Print - All Settings <span>PRINT</span> </div>	
<b>AUTO ON</b> <div> Auto On Method <span>Power Button</span> </div> <div> Auto On Delay <span>0 Seconds</span> </div>		
<b>INFO</b> <div> Amplifier Name <span>LS48-V10</span> </div> <div> Amplifier Model <span>DSP 2-750</span> </div> <div> Customer Name <span></span> </div>	<div> Dealer Name <span></span> </div> <div> Installer Name <span></span> </div> <div> Installation Date <span></span> </div>	<div> Firmware Version <span>v1.66</span> </div> <div> Serial Number <span>930951400HA0000</span> </div>

## ID Amp Mode

When flash power switch is turned ON the power button on the front of the amplifier will flash to indicate which amplifier you are programming. This will make the amplifier easy to identify in a multi-amp installation.

## Backup Restore

The green BACKUP and RESTORE buttons take all of the settings of the amplifier including the DSP settings and encapsulates them into one file. This allows you to transfer these settings into another amp of the same model. This is a proprietary file type, agnostic to PC or Mac.

## Print

The print button will output a complete list of all settings for the amplifier. It is always a good idea to keep a backup hard copy of the settings for each installation.

## Auto On

### Auto On Method

Simply select the auto on method you would like to use with the blue pull down menu. The five methods are listed below.

It is strongly recommended that you set the auto on method to POWER BUTTON to avoid unintended shut offs while configuring the amplifier. You can return at anytime to this setting and select the final method of auto-on for your installation.

### Voltage

When a AC or DC voltage from 3-30 volts is applied to the rear panel connector the amplifier will turn on and off.

### IP

When the amplifier is connected to a network and an IP command is sent to the amplifier it will turn the amplifier on and off.

### IR

When you wish to turn the amplifier ON and OFF via an IR command.

### Audio

When an Audio signal is sensed on any input the amplifier will turn on. When the signal is removed the amplifier will enter standby after 15 minutes.

### Power Button

The Power Button option restricts turn on and off to the front panel power button and will not enter standby.

### Auto On Delay

If multiple amplifiers are connected to the same electrical circuit it might be necessary to stagger the turn on of each amplifier. Under normal conditions this can be set to 0 milliseconds.

**NOTE: IF EITHER AUDIO OR VOLTAGE TRIGGERS ARE SELECTED, THE AMPLIFIER HAS A 12 SECOND CYCLE TIME FROM STANDBY TO PLAY AN AUDIO SIGNAL. THIS IS NORMAL AND REQUIRED TO COMPLY WITH THE EU < .5 WATT ERP DIRECTIVE. (EC/1275/2008). SELECT OFF TO BYPASS THIS FEATURE. SEE POWER CONSUMPTION TABLE FOR IDLE POWER USE (SEE PAGE 6, FIGURE 7). AUDIO AUTO ON IS THE ONLY MODE THAT ALLOWS THE AMPLIFIER TO DRAW 0.5 WATTS AT STANDBY.**

**NOTE: WHEN VOLTAGE, POWER BUTTON, IP OR IR IS SELECTED THE AMPLIFIERS POWER SAVING FEATURE WILL BE DISABLED.**

## Info

All the orange blocks are installer entered data. Each field has a maximum of 16 characters.



General Settings	In/Out Settings	EQ Settings																		
<div>INPUT SETUP</div> <table> <tr> <td></td> <td>1 LEFT</td> <td>1 RIGHT</td> <td>2 LEFT</td> <td>2 RIGHT</td> </tr> <tr> <td>Input Name</td> <td>Input 1L</td> <td>Input 1R</td> <td>Input 2L</td> <td>Input 2R</td> </tr> <tr> <td>Level Trim dB</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>				1 LEFT	1 RIGHT	2 LEFT	2 RIGHT	Input Name	Input 1L	Input 1R	Input 2L	Input 2R	Level Trim dB	0	0	0	0			
	1 LEFT	1 RIGHT	2 LEFT	2 RIGHT																
Input Name	Input 1L	Input 1R	Input 2L	Input 2R																
Level Trim dB	0	0	0	0																
<div>OUTPUT SETUP</div> <table> <tr> <td></td> <td>1 LEFT</td> <td>1 RIGHT</td> </tr> <tr> <td>Output Name</td> <td>Output 1L</td> <td>Output 1R</td> </tr> <tr> <td>Stereo/Mono</td> <td>Stereo</td> <td>Stereo</td> </tr> <tr> <td>DSP Preset</td> <td>LS48~V10</td> <td>LS48~V10</td> </tr> <tr> <td>Output Group</td> <td>A</td> <td>A</td> </tr> <tr> <td>Bridge Mode / 70V</td> <td colspan="2">70V</td> </tr> </table>				1 LEFT	1 RIGHT	Output Name	Output 1L	Output 1R	Stereo/Mono	Stereo	Stereo	DSP Preset	LS48~V10	LS48~V10	Output Group	A	A	Bridge Mode / 70V	70V	
	1 LEFT	1 RIGHT																		
Output Name	Output 1L	Output 1R																		
Stereo/Mono	Stereo	Stereo																		
DSP Preset	LS48~V10	LS48~V10																		
Output Group	A	A																		
Bridge Mode / 70V	70V																			
<div>OUTPUT SOURCE</div> <table> <tr> <td>Source 1</td> <td>Input 1L</td> <td>Input 1R</td> </tr> <tr> <td>Source 2</td> <td>Input 1L</td> <td>Input 1R</td> </tr> <tr> <td>Mode Source 2</td> <td>OFF</td> <td>OFF</td> </tr> </table>			Source 1	Input 1L	Input 1R	Source 2	Input 1L	Input 1R	Mode Source 2	OFF	OFF									
Source 1	Input 1L	Input 1R																		
Source 2	Input 1L	Input 1R																		
Mode Source 2	OFF	OFF																		
<div>OUTPUT VOLUME</div> <table> <tr> <td>Output Volume</td> <td>0</td> <td>0</td> </tr> <tr> <td>Turn On Volume</td> <td>0</td> <td>0</td> </tr> <tr> <td>Maximum Volume</td> <td>12</td> <td>12</td> </tr> <tr> <td>Gain Offset</td> <td>0</td> <td>0</td> </tr> <tr> <td>Mute</td> <td>OFF</td> <td>OFF</td> </tr> </table>			Output Volume	0	0	Turn On Volume	0	0	Maximum Volume	12	12	Gain Offset	0	0	Mute	OFF	OFF			
Output Volume	0	0																		
Turn On Volume	0	0																		
Maximum Volume	12	12																		
Gain Offset	0	0																		
Mute	OFF	OFF																		

## Input Setup

### Input Name

This is a user entered field with a maximum of 16 characters. Use these fields to describe the type of input connected.

### Input Trim dB

This pull down menu allows for input levels to be adjusted +/-6dB.

This gives you the ability to level out all your inputs so when you switch from input to input the levels will be equal. This can eliminate any harsh transitions between sources with different output voltages. Select the pull down menu in each channel to adjust the level trim between plus or minus 6dB in increments of .5dB

## Output Setup

### Output Name

This is a user entered field with a maximum of 16 characters. Use these fields to describe the location of the speakers.

### Stereo / Mono

Allows each channel to be set for Stereo or Mono operation. When Mono is selected the Left and Right of the input selected will be combined to create Mono.

### DSP Preset

Apply any of the available Sonance DSP presets to each channel of the amplifier independently.

You can apply any open preset and then make modifications on the EQ Settings page.

### Output Group

The DSP 2-750 has two Output Group options A-B.

When using IP or IR to control the amplifier, commands are sent to an output group and not to a specific channel.

### Bridge Mode / 70V

Default setting for DSP 2-750 is 70V. When more power is required two channels can be bridged. Follow the instructions on page 7 for connecting the wires then select Bridge ON.

General Settings		In/Out Settings		EQ Settings	
INPUT SETUP		1 LEFT	1 RIGHT	2 LEFT	2 RIGHT
	Input Name	Input 1L	Input 1R	Input 2L	Input 2R
	Level Trim dB	0	0	0	0
OUTPUT SETUP		1 LEFT	1 RIGHT		
	Output Name	Output 1L	Output 1R		
	Stereo/Mono	Stereo	Stereo		
	DSP Preset	LS48~V10	LS48~V10		
	Output Group	A	A		
	Bridge Mode / 70V	70V			
OUTPUT SOURCE	Source 1	Input 1L	Input 1R		
	Source 2	Input 1L	Input 1R		
	Mode Source 2	OFF	OFF		
OUTPUT VOLUME	Output Volume	0	0		
	Turn On Volume	0	0		
	Maximum Volume	12	12		
	Gain Offset	0	0		
	Mute	OFF	OFF		

## Output Source

### Source 1

This is the primary source you will direct to the speakers. Any of the inputs available on the amplifier can be selected. When channels are in the same Output Group the inputs will all change in unison. Left inputs default to left outputs and right inputs to right outputs.

### Source 2

This is a secondary source that based on the Mode Source 2 setting described below will either override or mix with Source 1. This input could be used for a doorbell or paging for example.

### Mode Source 2

#### OFF

When set to OFF the second source has no effect on the operation of the channel.

#### MIX

When set to MIX Source 1 and Source 2 will be blended together when a signal is present on Source 2.

#### MUTE

When set to MUTE Source 1 will be muted while Source 2 is active.

## Output Volume

Output volume ranges between -70 to 12.

**The default volume level controls are set at 0.**

### Output Volume

This is the main volume level control for each channel. When channels are placed in the same Output Group the levels will change simultaneously.

### Turn On Volume

This determines what volume level the amplifier will default to when it is turned on. Channels placed in the same Output Group will automatically have identical levels. Turn On Volume level is implemented when the amplifier is turned off with the power switch or goes into standby mode.

### Maximum Volume


This is an independent setting for each channel. This can be used to limit how loud the speakers will play in certain areas. The Output Group selected does not affect this setting.

### Gain Offset

The gain offset setting allows channels in the same Output Group to have their levels adjusted independently by +/-6dB. This is an independent setting not affected by the Output Group.

### Mute

The mute setting eliminates the output from the speakers. Channels placed in the same Output Group will change simultaneously.

SONARC
SONANCE 

General Settings
IN / OUT Settings
EQ Settings

**ASSIGN  
PRESET**

	1 LEFT	1 RIGHT
Output Name	Output 1L	Output 1R
DSP Preset	FLAT	FLAT

**TEST  
SIGNAL**

Test Signal Select	Pink Noise	Pink Noise
Volume	-20	-20
On / Off	OFF	OFF

**IMPORT  
EXPORT  
PRESET**

All Presets	IMPORT	EXPORT
Single Preset	IMPORT	EXPORT

**COPY  
PRESET**

From	FLAT	COPY
To	FLAT	

SELECT EQ PRESET  

FLAT

EDIT PRESET NAME  

FLAT

RESET SETTINGS  

RESET

18dB

## Assign Preset

### Output Name

These can be named Output 1L & Output 1R or room names such as Kitchen L and Kitchen R. These are a duplicate of the Output Name on the IN/OUT Settings page.

### DSP Preset

Select your DSP preset with the blue pull down menu. This will auto populate in the IN/OUT Settings page.

## Test Signal

The SONARC software includes a built in pink noise generator. The pink noise signal can be used in conjunction with a real time analyzer to measure speakers.

### Test Signal Select

You have the option of pink noise or test signals fed into line level inputs. Use the blue pull down menu to select between pink noise or line level inputs as a source for the test signal.

### Volume

Select your desired volume.

### On/Off

Toggles between on and off.

The pink noise signal should not be left on for more than 10 minutes to minimize the risk of damaging the speakers.

The screenshot shows the SONANCE web interface with the 'EQ Settings' tab selected. The interface is divided into several sections:

- General Settings**: Includes 'Output Name' (1 LEFT, 1 RIGHT) and 'DSP Preset' (FLAT, FLAT).
- TEST SIGNAL**: Includes 'Test Signal Select' (Pink Noise, Pink Noise), 'Volume' (-20, -20), and 'On / Off' (OFF, OFF).
- IMPORT EXPORT PRESET**: Includes 'All Presets' (IMPORT, EXPORT) and 'Single Preset' (IMPORT, EXPORT).
- COPY PRESET**: Includes 'From' (FLAT), 'To' (FLAT), and a 'COPY' button.
- SELECT EQ PRESET**: Includes a 'FLAT' button.
- EDIT PRESET NAME**: Includes a 'FLAT' button.
- RESET SETTINGS**: Includes a 'RESET' button.

At the bottom, there is a frequency response graph showing a flat line at 18dB.

## Import Export Preset

### All Presets

The green IMPORT EXPORT buttons allow you to save all 50 presets in one file. This option can be useful when setting up multiple amplifiers.

### Single Preset

The green IMPORT EXPORT buttons allow you to import or export presets individually.

### Export Single Preset

1. Use the blue pull down menu on the SELECT EQ PRESET, located under the IMPORT EXPORT green buttons.
2. Select the preset you choose to export from the pull down menu.
3. Press the green EXPORT button. Depending on your web browser the exported file will be saved in your Downloads folder or you will be prompted where you would like to save the file.

### Import Single Preset

1. Import speaker preset to a location on your computer. This can be accomplished by saving a DSP preset downloaded from Sonance website.
2. Select the location you would like to store the new preset using the SELECT EQ PRESET pull down menu. You can save the new preset in any of the open preset locations or you can overwrite an existing preset you do not need.
3. Press the green IMPORT button.
4. You will be directed to my computer or FINDER.
5. Find and Select the new preset you would like to import
6. You will be directed to a screen that says Upload Successful.
7. Press the Click Here To Go Back to the highlighted text
8. The preset will now be saved in the location you selected.

### Copy Preset

From / To the blue pull down menus allow you to pull a preset from one location and assign it to another location. Press green copy button to activate.

## Select EQ Preset

This is a pull down menu that allows the selection of any one of the 50 available presets.

When you want to edit a particular preset you simply select it in the Select EQ Preset pull down menu. Any changes you make are saved immediately.

## Edit Preset Name

This field allows the name of the preset to be edited. There is a maximum of 16 characters that can be entered.

## Reset Settings

This is a simple reset button to cancel edits and return to the original preset if you are unable to achieve the target frequency response.



**IMPORTANT: ONLY MODIFY THE EQ SETTINGS TAB IF YOU HAVE A STRONG UNDERSTANDING AND EXPERIENCE WITH MANUALLY CALIBRATING PARAMETRIC CURVES AND HAVE THE NECESSARY TEST EQUIPMENT. IF NOT, IT IS STRONGLY RECOMMENDED THAT YOU DO NOT MAKE ANY ADJUSTMENTS ON THE EQ SETTINGS TAB. ONLY USE THE PRE-PROGRAMMED DSP CURVES AVAILABLE ON TAB 2. NEVER MAKE ADJUSTMENTS ON THIS TAB BY EAR.**

## Output Frequency Response Example Image

This graph reflects the changes made below.

The above EQ image shows EQ4 ON at 500Hz, the Q is set to 3 with a -6dB gain, creating a gradual dip in the lower midrange.

EQ9 shows ON at 3000Hz, the Q is set to 10 with a -6dB gain, creating a sharp dip in the midrange.

EQ10 shows ON at 10000Hz, the Q is set to 1 with a +4dB gain, creating a very gradual slope in the high frequencies.

## Parametric EQ

All Sonance DSP amplifier models feature a 10 band parametric EQ. Adjustments made to the EQ will be displayed on the Output Frequency Response graph. We strongly suggest not adjusting the EQ without proper measurement equipment.

### EQ On/Off

Turns each of the 10 parametric EQ filters on and off.

### EQ Frequency Hz

Enter the frequency in Hz that you would like to adjust.

### EQ-Q

This setting determines the width of the adjustment range. The lower the number the wider the bandwidth. The higher the number the narrower the bandwidth.

### EQ Gain +/-dB

The level of each parametric adjustment can be set +/-12dB. Careful adjustment of the EQ Gain is necessary to prevent damage to the speakers. Always increase the level as little as possible. The first choice should always be to reduce the output to achieve the target frequency response.

## Limiter

The limiter operates as a brick wall limit on the output of the amplifier. The limiter drop down menu has -3dB, -6dB and -12dB options. The maximum outputs for each of the models:

	No Limiter	-3dB	-6dB	-12dB
<b>DSP 2-750</b>	375 watts	187.5 watts	93.8 watts	23.4 watts

All of the above output power ratings are when connected to an 8 ohm load.

## Delay

Delay is shown in Milliseconds, Feet and Meters. You can make an entry in any of the three fields and the other fields will be calculated automatically.

The minimum delay is .01 milliseconds, the maximum delay is 25 milliseconds.

This function is useful when compensating for distance between satellites and subwoofers for instance.



## Crossover

### LP Xover / HP Xover

This setting turns the high and low pass crossovers ON and OFF.

### Frequency

In this field you can enter any frequency between 20Hz-20kHz.

### Filter Type

6dB, 12dB, 18dB and 24dB per octave Butterworth filters are available in the pull down menu.

The higher the number the faster the speakers output will be reduced below or above the crossover frequency.

In a typical satellite subwoofer system the crossover frequency would be around 80-100Hz for both the high and low pass filters.

## Crossover/Tilt Control Example Image

The above EQ image shows High Tilt set to ON, frequency at 5000Hz with a +5dB gain, creating a gradual tilt in the high frequencies.

HP Xover set to ON at 90Hz with a 24dB Filter Type.

This is an example only to explain the settings. Your settings will differ.

## Tilt Control

The tilt controls are very sophisticated bass and treble control. By selecting a start frequency and level you can ramp the bass and or treble up or down.

The effect of the tilt control is visible in the Output Frequency Response graph.

### Low Tilt / High Tilt

This setting turns the Low and High tilt controls ON and OFF.

### Frequency

Enter the start frequency of the tilt in Hz.

To boost the low frequencies you would typically set the Low Tilt to 100Hz. To boost the high frequencies you would set the High Tilt to around 5kHz.

### Gain

The gain can be set in 1dB steps +/-12dB.

When setting the gain use as little positive gain as possible to minimize the risk of damage to the loudspeakers.



## DSP 2-750 AMPLIFIER WITH VP12SUB NC INSTALLATION

1. Read the DSP 2-750 Manual and Network Connection Instructions.
2. Follow installation instructions found in the VP12SUB NC manual.
3. Using SONARC assign the VP12SUB NC subwoofer preset to the channel or channels being used. In Bridge Mode / 70V switch from default 70V to OFF.
4. In a typical home theater system the signal to the subwoofer will be from the (LFE) output on your surround receiver or processor. Connect the (LFE) output to an input on the DSP 2-750 amplifier. When using two subwoofers with the DSP 2-750 amplifier set the output to Mono using the SONARC In/Out settings page, see image below.

OUTPUT SETUP		1 LEFT	1 RIGHT
	Output Name	Output 1L	Output 1R
	Stereo/Mono	Mono	Mono
	DSP Preset	VP12SUB-NC	VP12SUB-NC
	Output Group	A	A
	Bridge Mode / 70V	OFF	

5. The DSP 2-750 can also run stereo subwoofers. Connect the audio source into the left and right inputs on the amplifier. In Output Setup select Stereo. See image below.

OUTPUT SETUP		1 LEFT	1 RIGHT
	Output Name	Output 1L	Output 1R
	Stereo/Mono	Stereo	Stereo
	DSP Preset	VP12SUB-NC	VP12SUB-NC
	Output Group	A	A
	Bridge Mode / 70V	OFF	

6. Bridging the DSP 2-750 instructions are located on page 7.

Many surround receivers and processor contain an automatic calibration and equalization system. If yours does contain one, follow the manufacturer's instructions on how to complete the process. The highest performance will be achieved if you complete this calibration process.

If your surround receiver or processor does not contain an automatic calibration routine, you will need to do this manually. Follow the instructions provided with your surround receiver or processor. A simple SPL (sound pressure level) meter will be needed to calibrate your system correctly. The use of an SPL meter is strongly recommended.

## DSP 2-750 AMPLIFIER WITH SLS INSTALLATION

1. Read the DSP 2-750 Manual and Network Connection Instructions.
2. Follow installation instructions found in the SLS SAT and SUB manuals.
3. The maximum number of satellites and subwoofers that can be used in a system will depend on the quantity of amplifier's available power.

Before beginning an installation use the wattage calculator on [www.sonance.com/outdoor/sonance-landscape-series](http://www.sonance.com/outdoor/sonance-landscape-series) to calculate the amplifier power your installation will require. Multiple amplifiers may be required in large installations.

**NOTE:** Please refer to the wiring chart below to determine which size wire to use over a given distance.

WIRE GAUGE CHART	
WIRE GAUGE	DISTANCE
18 Gauge	Up to 100 Feet (33 meters)
16 Gauge	Up to 150 Feet (50 meters)
14 Gauge	Up to 250 Feet (80 meters)
12 Gauge	Up to 600 Feet (192 meters)

4. Stereo 70 volt audio systems allow for speakers to be daisy chained together. In a typical system with one zone of audio you simply run a 4 conductor wire from the amplifier to the closest speaker then wire from there to next speaker and so on, alternating from left to right speakers for stereo output.

**NOTE:** Sonance strongly recommends the use of 14 gauge or larger direct burial grade wire.

Once your connections are finished place the supplied speaker block connector protective cover over the connectors to prevent a short circuit or shock hazard.

**CAUTION:** The amplifier should not be connected to AC power until all connections are completed. High power 70 volt amplifiers present a serious shock hazard. Do not connect speaker wires to the amplifier until all other connections are completed.

5. Using SONARC assign the SLS SAT and SUB DSP preset to the channel or channels being used. In Bridge Mode keep the 70V default, see image below.

OUTPUT SETUP		1 LEFT	1 RIGHT
	Output Name	Output 1L	Output 1R
	Stereo/Mono	Stereo	Stereo
	DSP Preset	LS48~V10	LS48~V10
	Output Group	A	A
	Bridge Mode / 70V	70V	



## SPECIFICATIONS

### SONAMP 2-750

Number of Channels	2 (1 stereo pair)
Output Power - 8 ohms (Stereo)	500 Watts RMS per channel (all channels driven)
Output Power - 4 ohms (Stereo)	750 Watts RMS per channel (all channels driven)
Output Power - 8 ohms (Bridged)	2000 Watts
Frequency Response	5Hz – 50kHz (bandwidth limited)
Total Harmonic Distortion	0.4% (1kHz, 8 ohms) 0.3% (1kHz, 4 ohms)
Signal to Noise Ratio	–100dB (20Hz-20kHz)
Input Gain	29dB
Input Sensitivity	100mV for 1 Watt Output @8 ohms 2200mV for 500 Watts Output @8 ohms
Input Impedance	20k ohms
Loop Output Impedance	600 ohms
Maximum Source Input Voltage	2.9V VAC RMS
Communication Protocol	TCP/IP (RJ-45 10/100 Base T)
Power Consumption 120V AC	
@8 ohms (sinewave, full power)	1280 Watts (all channels driven)
@4 ohms (sinewave, full power)	1780 Watts (all channels driven)
@8 ohms (sinewave, 1/8 power)	212 Watts (all channels driven)
@4 ohms (sinewave, 1/8 power)	270 Watts (all channels driven)
@idle	75 Watts
@IP or IR Standby	2.0 Watts
@standby	0.4 Watts
Power Consumption 220V AC	
@8 ohms (sinewave, full power)	1220 Watts (all channels driven)
@4 ohms (sinewave, full power)	1720 Watts (all channels driven)
@8 ohms (sinewave, 1/8 power)	200 Watts (all channels driven)
@4 ohms (sinewave, 1/8 power)	257 Watts (all channels driven)
@idle	70 Watts
@IP or IR Standby	1.3 Watts
@standby	0.4 Watts
Heat Output	
@8 ohms (sinewave, full power)	683 BTU (all channels driven)
@4 ohms (sinewave, full power)	1195 BTU (all channels driven)
@8 ohms (sinewave, 1/8 power)	260 BTU (all channels driven)
@4 ohms (sinewave, 1/8 power)	340 BTU (all channels driven)
AC Voltage	100-120V@60Hz, 220-240V@50Hz
AC Fuse	15A (T15AL ~ 250V)
Rack Space Requirement	2U
Dimensions w/ Feet (W x H x D)	17 1/4" x 3 7/8" x 16 13/16" (438mm x 98mm x 427mm)
Dimensions w/ Rack Ears w/o Feet (W x H x D)	19" x 3 1/2" x 16 13/16" (482mm x 88mm x 427mm)
Shipping Weight	23.3 lbs (10.6kg)



CAD Files available for download at [www.sonance.com/electronics/amplifiers/dsp](http://www.sonance.com/electronics/amplifiers/dsp)

## LIMITED TWO (2) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

## EXCLUSIONS

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IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

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Your Product Model and Description: Sonamp DSP 2-750 Multi-Channel Power Amplifier

Warranty Period for this Product: Two (2) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase.

**Additional Limitations and Exclusions from Warranty Coverage:** The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat, cold or humidity), or from service or repair which has not been authorized by Sonance. **Obtaining Authorized Service:** To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (949) 492-7777 within the warranty period, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.



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