# Wyred 4 Sound

## **OWNER'S MANUAL**

\_\_\_\_\_

# STI

# Stereo Integrated Amplifier

Get Wired, WYRED 4 SOUND

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com

www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

# TABLE OF CONTENTS

Warranty Registration	3
Unpacking	3
Introduction	3
Design features	4
Front panel operation	4
Set-up menu	4-5
Powering your amplifier	5
DC Trigger	5
Getting connected	5-6
"Break-in"/ warming up Period	6
Troubleshooting	6-7
Got Hum	7
Amplifier Faults	7
Warranty coverage	8-9
Servicing your amplifier	9-11
Product Specifications	12

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

#### Warranty Registration

#### \*\*IMPORTANT\*\*

Please take a moment to complete the warranty registration form located on our website. You **MUST** complete and submit this form within 30 days of purchase to activate your warranty.

#### **Unpacking**

The STI series packaging contains:

- 1 Owners Manual
- 1 6' AC Power Cable
- 1 6' DC Trigger Cable
- 1 STI stereo integrated amplifier
- 1 Remote control
- 2 AAA Batteries

Carefully inspect your new integrated amplifier for any shipping damage. Please contact your dealer or Wyred 4 Sound directly if you notice any shipping damage or for anything you suspect is missing from your shipment. All packaging cartons will easily fold flat for convenient storage, and should be stored for future use should there be one.

#### Introduction

Wyred 4 Sound products are a perfect example of what is accomplished when practical engineering and knowledge are combined. All components are selected for the greatest possible functionality, durability, and most importantly quality. Wyred 4 Sounds' excellence in engineering will provide you with first-class performance and years of satisfaction.

Wyred 4 Sound audio products are designed to bring you closer to the beauty of your music. Our goal is to bring the performance of the recording right into your home with as little change as possible. As you can identify, our drive is focused on the customer. We know what others have to offer, so you can be sure that our value will be substantially more than theirs to keep the American made products desirable. We greatly appreciate your purchase and expect your complete satisfaction. Wyred 4 Sound hopes that you will continue to grow with us as we continue to provide the quality and functionality that you can learn to depend on.

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

#### **Design features**

There are many reasons why the STI series integrated amplifiers are better than the competition. To start with, the volume control in the STI is a true-resistive ladder type that offers truer linearity, and supreme sonic quality. The line-stage within the integrated doubles as an unbalanced to balanced converter which provides a balanced signal from unbalanced inputs.

A loop in/out feature is also on hand with the STI integrated amplifiers. In the setup menu, you can select the loop feature to insert a digital crossover or similar devices into the audio path. When the loop feature is activated, Input 5 becomes loop in, and the AUX out becomes loop out.

With a set of balanced inputs, 4 sets of unbalanced inputs and a set of unbalanced outputs, connection possibilities are vast. Absolute phase and balance control are easily selected through the supplied remote for those out of phase recordings, and room adjustments.

User interface is made easy with the VFD display and optical rotary encoder. Allowing input naming and HT Bypass input selection, the setup menu is easily accessed for customization. Several display dimming steps including "off" are available through the remote for stealth operation. Powering up the STP can be done several ways, by pushing in on the volume knob, by pressing power on the remote, and by the remote DC trigger in when HT Bypass is selecting in the setup menu. When an input is selected to be used as the HT input, the DC trigger can be activated by a surround processor to power up the unit, and automatically set the volume to unity gain. This allows for all volume controls to be made through the surround processor. When the processor is shut down, so is the STI. When 2ch listening is desired, then manual operation can be executed from the front of the unit, or through the remote.

#### Front panel operation

The front of the STP offers several features, power on/off, input selection, volume control, muting, setup routine, and display for user feedback. For phase, balance, and dim control, the remote must be used. To enter the setup mode, input up and down must be pressed in while the power is turned on by pushing in the volume knob. Once in the setup menu, input up/down is used to scroll through the settings, mute is used to select the setting for adjustment, and the volume knob is used to adjust the setting. For input naming, the volume control will be used to select the character, and the mute button to move to the next character position for adjustment. Once all settings are made (automatically saved once changed), the setup menu can be closed by pressing the power button (volume knob) again at any time.

#### Set-up menu/instructions

To enter the set-up menu proceed with the following steps:

- 1. Make sure the unit is plugged in, power switch on rear is on, and the unit is off.
- 2. Push and hold in the Input up and down buttons while pressing the power button (knob) once.

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

- 3. Release all the buttons when the set-up screen shows up on the display.
- 4. Use the input up and down buttons to navigate the menu function.
- 5. Use the mute button to select and enter the menu function.
- 6. Use the volume knob to change the setting with-in the menu function. (You can press the input buttons to save the settings and move to another function)
- 7. Once all settings have been made, press the power button again (knob) to set and store you selections.

When selecting the HT Bypass input, make sure that the proper input is selected which is connected to your HT processor. When the trigger is applied after this setting is made, the unit will automatically select that input, set the volume to -0db, and turn on other connected equipment via the DC trigger output.

When the Loop out feature is used, Aux out becomes the loop out which will feed the connected components input, and Input 5 will become the loop in which will come from the output of the connected component. **Please note:** the loop in connectors are directly connected to the internal amplifiers as if the unit was a standalone amp with 27db of gain. The loop out is controlled by the volume control, but the loop in is not. Make sure you have all connections made properly to ensure no damage is made to your equipment.

#### Powering your amplifier

When power is applied to the amplifier and the switch located on the rear is in the on position, the amplifier will turn on. If you would like to manually turn the amplifier on and off, this switch is where you would want to do so. Leaving your amplifier on all the time will not hurt it, shorten the lifespan, or degrade the future sound. The STI series amplifiers make zero noise internally and to connected gear. The unit shouldn't be in any way noticeable of its operation other than the display status on the front panel. To prevent power surges, we recommend using quality surge suppressor equipment. Turning the switch off on the rear of the unit will also protect against surges and spikes should some occur without proper protection.

#### Dc trigger

The STI series stereo amplifiers are equipped with a 12VDC remote trigger input and output. You can connect the 12V trigger output of your processor or source to the 12V trigger input on the amplifier for an easy remote power up and HT configuration every time. When the unit is in standby via the remote trigger, the amplifier is powered up, but disabled. The current draw in standby mode is less than 10W per channel, and shouldn't measure too much on your electricity bill. The trigger input will work from 5-25V, so there shouldn't be any issue with the voltage tolerance on source equipments outputs rated for 12V. You can also connect the trigger output to additional amplifiers or equipment to be turned on and off with the STI amplifier.

#### Getting connected

<u>CAUTION</u>: Disconnect the power cord or put the power switch in the off position before making any connections to your amplifier to minimize the risk of electric shock and possible loudspeaker damage. Power your amplifier <u>after</u> all final connections have been made. <u>NOTE</u>: This is a balanced amplifier and you should

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

<u>support@wyred4sound.com</u>
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

**NEVER** connect either output to a ground point! Doing so may cause damage to your amplifier and/or connected gear.

The binding posts that you will find on the STI series are made of nothing but the best. Each binding post is made of highly ductile "OFC" copper alloy. Both clamping nuts are built out of one piece, and offers excellent grip. All metallic surfaces offer a 24-carat gold-plating, and are non magnetic surfaces. The binding post will accept 4mm banana plugs, spades of 6 and 8mm, and crimped cable ends up to 10 AWG. The easiest connection is made with banana plugs, but be sure that you use the highest quality that you can find. Make sure that the banana plugs fit snugly into the terminals. Some inexpensive banana plugs can cause a highly resistive connection which can result in a noticeably higher distortion output to the connected speakers.

The RCA (unbalanced) jack is made with high quality gold plated copper, and should be properly connected with interconnects of the same value. The Neutrik XLR (balanced) connectors are the finest balanced connector on the market, and are the best possible option for connecting your amplifier to your sources.

Using the new W4S power and interconnect cables would be a great way to ensure your system is closer to what we call "our reference". We are now offering superior cables at an affordable rate that anyone can afford. For more information, please visit the web-site, or send an email to <a href="mailto:support@wyred4sound.com">support@wyred4sound.com</a>.

## "Break-in" period

Your new STI series amplifier will deliver outstanding performance right out of the box. However, you should plan on improvements as it reaches its normal operating temperature and once all of the components have a chance to "settle in". Our experience has shown that the amplifier has reached its' potential after the initial 300 hours. You will find that the initial 100hours, the amplifier will start to shed the initial "brightness" and somewhat harsh transitions. During the second 100 hours, the amplifier will start to become more fluid, and smoother overall. The remaining 100 hours is where the lesser of the change happens, and you might still notice improvements over time.

After the initial break in period, your amplifier will be ready to perform within minutes of powering it on.

#### **Troubleshooting**

No sound?

If you have your input source and speakers connected, and you can't get music to play, check the following:

- 1. Verify that the power cord is plugged in and that the outlet is powered up.
- 2. Check the front panel and make sure that the blue light is on.
- 3. If the front panel is blue and there still isn't any sound, put your ear next to the tweeter of your speaker and have someone turn your amplifier off then on again at the rear switch. You should barely hear a click when the amplifier is turned on and off

STI Integrated amplifier v2.2

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

- 4. If you can hear the amplifier turn on and off, but there still isn't any sound, make sure you are getting a signal to it.
- 5. Verify that the input selector is selecting the proper input for what you have connected.
- 6. If the input is in the proper position and still no sound, then try replacing the interconnects to verify the connection between the amplifier and source.
- 7. Verifiy that the interconnects are conducting by replacing them on a different set from a connection that you know works.
- 8. Now that you have interconnects that you know work, try connecting the amplifier to another source that you know has worked in the past.

If you are still experiencing problems after checking all possibilities and using the resources provided please contact your dealer or Wyred 4 Sound directly for further assistance.

#### Got hum?

Is there too much hum or hiss coming out of your speakers? If you put your ear right next to the tweeter of your speaker, you should <u>barely</u> be able to hear any hiss from the amplifier in normal conditions. If the noise is <u>easily</u> heard at a distance, try putting your source on mute, or pause. If this eliminates the noise, it's inherent in the source or preamplifier. If your source doesn't disconnect the outputs when muted, and the noise still exists while muted, try disconnecting the inputs to the amplifier. If the noise is still there when the inputs are disconnected, and the inputs are shorted with shorting plugs, then your amplifier may need some servicing. If the noise is not there when the inputs are disconnected, try putting a cheater plug (ground isolator) on one or all components in order to eliminate a ground loop issue. NOTE: We only recommend using a ground isolator for trouble shooting purposes, and should be removed after the problem has been found. Having the ground of any unit disconnected can potentially create a dangerous situation.

An easy way to locate a noisy component is to replicate the problem then start disconnecting components one at a time, starting with a source. **Digital cable boxes and satellite receivers are notorious for making ground loop hum.** This is normally caused by the potential difference on the input wire (shield side) for either of the boxes when referenced to ground. If this is the case in your system, the installation of an isolating transformer would be the easiest solution and are normally readily available at your local electronics parts store. A better solution is a power strip with grounded and surge protected F-connectors that you can pass a signal through.

#### **Amplifier faults**

When the amplifier faults, there will be no indication other than the lack of music. The STI series amplifiers are very robust and can handle the heaviest of loads. Under normal circumstances, there shouldn't be any issues with faulting. If you suspect a problem, check the outputs and speaker connections to make sure they aren't shorted to each other or ground. If the amplifier faults while playing music loud, you may need a bigger amplifier for your taste or system. Contact your dealer or Wyred 4 Sound for other options you can explore.

STI Integrated amplifier v2.2

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

#### Warranty coverage

Wyred 4 Sound's warranty obligations are limited to the terms set forth below:

Wyred 4 Sound, as defined below, warrants this Wyred 4 Sound-branded hardware product against defects in materials and workmanship under normal use for a period of FIVE (5) YEARS from the date of retail purchase by the original end user purchaser ("Warranty Period"). If the product has been transferred from the original owner to a second hand owner it has a ONE (1) YEAR warranty, valid from the original date of purchase by the original owner. The remote control is covered for warranty replacement in the first year. If a hardware defect arises and a valid claim is received within the Warranty Period, at its option, Wyred 4 Sound will either (1) repair the hardware defect an ocharge, using new or refurbished replacement parts, or (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. Wyred 4 Sound may option that you replace defective parts with new or refurbished user-installable parts that Wyred 4 Sound provides in fulfillment of its warranty obligation. A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by Wyred 4 Sound, 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 Wyred 4 Sound's property. Parts provided by Wyred 4 Sound in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to Wyred 4 Sound and becomes Wyred 4 Sound's property.

#### **EXCLUSIONS AND LIMITATIONS**

Wyred 4 Sound does not warrant that the operation of the product will be uninterrupted or error-free. Wyred 4 Sound is not responsible for damage arising from failure to follow instructions relating to the product's use. This warranty does not apply: (a) to damage caused by use with non-Wyred 4 Sound products; (b) to damage caused by accident, abuse, misuse, flood, fire, earthquake or other external causes; (c) to damage caused by operating the product outside the permitted or intended uses described by Wyred 4 Sound; (d) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of Wyred 4 Sound or a Wyred 4 Sound Authorized Service Provider; (e) to a product or part that has been modified to significantly alter functionality or capability without the written permission of Wyred 4 Sound; (f) if any Wyred 4 Sound serial number has been removed or defaced.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, WYRED 4 SOUND SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, AND WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF WYRED 4 SOUND CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY WYRED 4 SOUND IN ITS SOLE DISCRETION EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, WYRED 4 SOUND IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION; LOSS OF, DAMAGE TO OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED OR USED WITH WYRED 4 SOUND PRODUCTS AND ANY FAILURE TO MAINTAIN THE

STI Integrated amplifier v2.2

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS. WYRED 4 SOUND DISCLAIMS ANY REPRESENTATION THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY.

#### Obtaining warranty service

Please access and review the resources referred to in the documentation accompanying this hardware product before requesting warranty service. If the product is still not functioning properly after making use of these resources, please contact the Wyred 4 Sound representatives or, if applicable, a Wyred 4 Sound Authorized Service Provider located using the information provided in the documentation. A Wyred 4 Sound representative or Wyred 4 Sound Authorized Service Provider will help determine whether your product requires service and, if it does, will inform you how Wyred 4 Sound will provide it. Wyred 4 Sound or its Wyred 4 Sound Authorized Service Providers will provide warranty service on products that are tendered or presented for service during the Warranty Period, as permitted by law. Wyred 4 Sound is not responsible for freight charges to our facility for warranty repairs. We will cover return freight charges (domestic only) if the unit is found to be faulty and still within the warranty coverage period. You will be responsible for delivery and return shipping and handling charges if the product cannot be serviced in the country it is in. In accordance with applicable law, Wyred 4 Sound may require that you furnish proof of purchase details and/or comply with registration requirements before receiving warranty service. Please refer to the accompanying documentation for more details on this and other matters on obtaining warranty service.

Recovery and reinstallation of system and application software and user data are not covered under this Limited Warranty.

#### **Service**

In the unlikely event there is a problem with your Wyred 4 Sound component, please contact your dealer, distributor, or Wyred 4 Sound to discuss the problem before you return the component to our manufacturing facilities for repair. Products shipped to the factory will be refused and returned freight collect if not accompanied by a Wyred 4 Sound Service Department issued return authorization number (RA Number). Return authorization numbers must be prominently displayed on the outside of the box and an accompanying letter describing the problem and re-listing the RA number must be inside the box to qualify for service.

To contact the Wyred 4 Sound Service Department:

TELEPHONE 805-466-9973
HOURS M/F 8:00 am to 5:00 pm PST
FAX 805-462-8962
E-MAIL support@wyred4sound.com
WEBSITE http://www.wyred4sound.com

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

<u>support@wyred4sound.com</u>
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

If you are located in the United States use the following procedure:

- 1. Obtain a Return Authorization Number (R/A number) and shipping address from the Wyred 4 Sound Service Department.
- 2. Insure and accept all liability for loss or damage to the product during shipment to the Wyred 4 Sound factory and ensure all freight (shipping) charges are prepaid.

The product may also be hand delivered to the California facility if arrangements with the Service Department have been made in advance. Proof of purchase from an authorized Wyred 4 Sound dealer, distributor or agent will be required for warranty validation at the time of hand delivery. Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. Wyred 4 Sound may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by Wyred 4 Sound was boxed in nonstandard packaging or if the original packaging was so damaged to the point it was unusable. If Wyred 4 Sound determines that new packaging is required, the owner will be notified before the product is returned. To purchase additional packaging, please contact your authorized Wyred 4 Sound dealer, distributor, or the Wyred 4 Sound Service Department for assistance.

#### Service procedure

If you are located outside the United States use the following procedure:

- 1. Obtain a Return Authorization Number (R/A number) and shipping address from your dealer or distributor's Service Department.
- 2. Insure and accept all liability for loss or damage to the product during shipment to the dealer or distributor's Service Department and ensure all freight (shipping) charges are prepaid.

If you feel your authorized dealer or distributor is either unwilling or unable to service your Wyred 4 Sound products, please contact our service department at customersupport@wyred4sound.com or at the above contact numbers to discuss and resolve the situation.

Voltage changes to match your country's voltage and frequency requirements to your Wyred 4 Sound product are possible only at the time of purchase. The STI series amplifiers are set to a fixed voltage to match your country's requirements and may not be easily changed.

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

<u>support@wyred4sound.com</u>
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

	Your Wyred 4 Sound product serial number is:			
	37 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Your dealer or distributor information:			
Your purchase information:				

Check out the latest news, products and services!

# WWW.WYRED4SOUND.COM

Get Wired, WYRED 4 SOUND!

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com

www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.

# **Product specifications**

Power Output 8Ω @ 0.2%   THD+N   250Wpc   570Wpc		<b>STI-</b> 500	<b>STI-1</b> 000
THD+N         250Wpc         570Wpc           Power Output 8Ω @ 1.0% THD+N         320Wpc         615Wpc           Power Output 4Ω @ 0.2% THD+N         550Wpc         1,140Wpc           Power Output 4Ω @ 1.0% THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80w         80wV           80% @         78% @         1000W           Fefficiency (4Ω)         500W         1000W           Frequency Response (20Hz-20kHz)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           All loads         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0.39db         0.39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω	Typical THD+N 8Ω (10W out)	0.005%	0.008%
THD+N         250Wpc         570Wpc           Power Output 8Ω @ 1.0% THD+N         320Wpc         615Wpc           Power Output 4Ω @ 0.2% THD+N         550Wpc         1,140Wpc           Power Output 4Ω @ 1.0% THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80w         80wV           80% @         78% @         1000W           Fefficiency (4Ω)         500W         1000W           Frequency Response (20Hz-20kHz)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           All loads         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0.39db         0.39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω			
Power Output 8Ω @ 1.0% THD+N         320Wpc         615Wpc           Power Output 4Ω @ 0.2% THD+N         550Wpc         1,140Wpc           Power Output 4Ω @ 1.0% THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @ 78% @ 78% @ 500W         1000W           Efficiency (4Ω)         500W 1000W           Frequency Response (20Hz-20kHz)         ± 0.3db ± 0.4db           20kHz)         ± 0.3db ± 0.4db           3.3Hz all loads         3.3Hz all loads           Balanced Input Impedance         60.4kΩ 60.4kΩ           Unbalanced Input Impedance         60.4kΩ 60.4kΩ           Dynamic Range         115db 118db           Gain         0.39db 0.39db           Sensitivity         0.55 V 0.75 V           Output Impedance         0.005 Ω 0.005 Ω           Min Load         2Ω 2Ω           Damping Factor (100Hz 8Ω)         2000 2000           Max Output Current         35A 40A           Channel Tracking         0.05db            Crosstalk (20Hz-20kHz)         > 77 db         >85 db			
THD+N         320Wpc         615Wpc           Power Output 4Ω @ 0.2% THD+N         550Wpc         1,140Wpc           Power Output 4Ω @ 1.0% THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @         78% @           Efficiency (4Ω)         500W         1000W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           Lower Bandwidth         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           <+/-		250Wpc	570Wpc
Power Output $4\Omega$ @ 0.2%         THD+N         550Wpc         1,140Wpc           Power Output $4\Omega$ @ 1.0%         1,225Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @         78% @           Efficiency (4Ω)         500W         1000W           Frequency Response (20Hz-20kHz)         200W         500W           Efficiency (8Ω)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           Lower Bandwidth         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000 <tr< td=""><td></td><td></td><td></td></tr<>			
THD+N $550 \text{Wpc}$ $1,140 \text{Wpc}$ Power Output $4\Omega@1.0\%$ $1,225 \text{Wpc}$ THD+N $625 \text{Wpc}$ $1,225 \text{Wpc}$ IMD (CCIF) $0.0005\%$ $0.0005\%$ Transient Intermodulation (TIM) $0.003\%$ $0.005\%$ Output Idle Noise $80 \text{uV}$ $80 \text{uV}$ 80% @ 78% @ 78% @ 78% @ 77% @ 78% @ 77% @	THD+N	320Wpc	615Wpc
THD+N $550 \text{Wpc}$ $1,140 \text{Wpc}$ Power Output $4\Omega@1.0\%$ $1,225 \text{Wpc}$ THD+N $625 \text{Wpc}$ $1,225 \text{Wpc}$ IMD (CCIF) $0.0005\%$ $0.0005\%$ Transient Intermodulation (TIM) $0.003\%$ $0.005\%$ Output Idle Noise $80 \text{uV}$ $80 \text{uV}$ 80% @ 78% @ 78% @ 78% @ 77% @ 78% @ 77% @		Т	1
Power Output 4Ω @ 1.0% THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @         78% @           Efficiency (4Ω)         500W         1000W           Frequency Response (20Hz-20kHz)         200W         500W           Efficiency (8Ω)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           all loads         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           +/-         0.05db<			
THD+N         625Wpc         1,225Wpc           IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @         78% @           Efficiency (4Ω)         500W         1000W           77% @         77% @           Efficiency (8Ω)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           all loads         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           <+/-		550Wpc	1,140Wpc
IMD (CCIF)         0.0005%         0.0005%           Transient Intermodulation (TIM)         0.003%         0.005%           Output Idle Noise         80uV         80uV           80% @         78% @           Efficiency (4Ω)         500W         1000W           77% @         77% @           Efficiency (8Ω)         200W         500W           Frequency Response (20Hz-20kHz)         ± 0.3db         ± 0.4db           3.3Hz         3.3Hz         3.3Hz           Lower Bandwidth         all loads         all loads           Balanced Input Impedance         60.4kΩ         60.4kΩ           Unbalanced Input Impedance         60.4kΩ         60.4kΩ           Dynamic Range         115db         118db           Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           <+/-	•		
Transient Intermodulation (TIM) $0.003\%$ $0.005\%$ Output Idle Noise $80uV$ $80uV$ $80\%$ @ $78\%$ @Efficiency (4Ω) $500W$ $1000W$ $77\%$ @ $77\%$ @Efficiency (8Ω) $200W$ $500W$ Frequency Response (20Hz-20kHz) $\pm 0.3 db$ $\pm 0.4 db$ $\pm 0.3 db$ $\pm 0.4 db$ $\pm 0.4 db$ Lower Bandwidthall loadsall loadsBalanced Input Impedance $60.4 k\Omega$ $60.4 k\Omega$ Unbalanced Input Impedance $60.4 k\Omega$ $60.4 k\Omega$ Dynamic Range $115 db$ $118 db$ Gain $0.39 db$ $0.39 db$ Sensitivity $0.55 V$ $0.75 V$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100 Hz 8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05 db$ $<+/-$ 0.05 dbCrosstalk ( $20 Hz-20 kHz$ ) $>77 db$ $>85 db$	THD+N	625Wpc	1,225Wpc
Transient Intermodulation (TIM) $0.003\%$ $0.005\%$ Output Idle Noise $80uV$ $80uV$ $80\%$ @ $78\%$ @Efficiency (4Ω) $500W$ $1000W$ $77\%$ @ $77\%$ @Efficiency (8Ω) $200W$ $500W$ Frequency Response (20Hz-20kHz) $\pm 0.3 db$ $\pm 0.4 db$ $\pm 0.3 db$ $\pm 0.4 db$ $\pm 0.4 db$ Lower Bandwidthall loadsall loadsBalanced Input Impedance $60.4 k\Omega$ $60.4 k\Omega$ Unbalanced Input Impedance $60.4 k\Omega$ $60.4 k\Omega$ Dynamic Range $115 db$ $118 db$ Gain $0.39 db$ $0.39 db$ Sensitivity $0.55 V$ $0.75 V$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100 Hz 8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05 db$ $<+/-$ 0.05 dbCrosstalk ( $20 Hz-20 kHz$ ) $>77 db$ $>85 db$	IMD (CCIE)	0.0007	0.0005
Output Idle Noise80uV80uV80% @78% @Efficiency (4Ω)500W1000W77% @77% @Efficiency (8Ω)200W500WFrequency Response (20Hz-20kHz) $\pm 0.3$ db $\pm 0.4$ db20kHz) $\pm 0.3$ db $\pm 0.4$ dbLower Bandwidthall loadsall loadsBalanced Input Impedance $60.4$ kΩ $60.4$ kΩUnbalanced Input Impedance $60.4$ kΩ $60.4$ kΩDynamic Range115db118dbGain0-39db0-39dbSensitivity $0.55$ V $0.75$ VOutput Impedance $0.005$ Ω $0.005$ ΩMin Load $2Ω$ $2Ω$ Damping Factor (100Hz 8Ω) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05$ db $<+/-0.05$ dbCrosstalk (20Hz-20kHz) $> 77$ db $> 85$ db			
Efficiency (4Ω) $500W$ $1000W$ Efficiency (8Ω) $77\%$ @ $77\%$ @ $77\%$ @ $500W$ Frequency Response (20Hz-20kHz) $\pm 0.3$ db $\pm 0.4$ db $3.3$ Hz $3.3$ Hz $3.3$ Hz $4.0$ db $\pm 0.4$ db			
Efficiency (4Ω) $500W$ $1000W$ $77\% @$ $77\% @$ Efficiency (8Ω) $200W$ $500W$ Frequency Response (20Hz-20kHz) $\pm 0.3 db$ $\pm 0.4 db$ $20kHz$ ) $\pm 0.3 db$ $\pm 0.4 db$ $3.3Hz$ $3.3Hz$ all loadsall loadsBalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Unbalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Dynamic Range $115 db$ $118 db$ Gain $0.39 db$ $0.39 db$ Sensitivity $0.55 V$ $0.75 V$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100Hz 8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05 db$ $<+/- 0.05 db$ Crosstalk ( $20Hz-20kHz$ ) $> 77 db$ $> 85 db$	Output Idle Noise		
77% @       77% @         Efficiency (8Ω)       200W       500W         Frequency Response (20Hz-20kHz) $\pm 0.3 \text{db}$ $\pm 0.4 \text{db}$ 20kHz) $\pm 0.3 \text{db}$ $\pm 0.4 \text{db}$ 3.3Hz       3.3Hz         all loads       all loads         Balanced Input Impedance $60.4 \text{k}\Omega$ $60.4 \text{k}\Omega$ Unbalanced Input Impedance $60.4 \text{k}\Omega$ $60.4 \text{k}\Omega$ Dynamic Range $115 \text{db}$ $118 \text{db}$ Gain $0.39 \text{db}$ $0.39 \text{db}$ Sensitivity $0.55 \text{ V}$ $0.75 \text{ V}$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100 \text{Hz } 8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05 \text{db}$ $<+/- 0.05 \text{db}$ Crosstalk ( $20 \text{Hz}$ - $20 \text{kHz}$ ) $> 77 \text{ db}$ $> 85 \text{ db}$	D.C. : (10)	· ·	
Efficiency (8Ω) $200W$ $500W$ Frequency Response (20Hz-20kHz) $\pm 0.3 db$ $\pm 0.4 db$ $20kHz$ ) $\pm 0.3 db$ $\pm 0.4 db$ $3.3Hz$ $3.3Hz$ Lower Bandwidthall loadsall loadsBalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Unbalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Dynamic Range $115 db$ $118 db$ Gain $0.39 db$ $0.39 db$ Sensitivity $0.55 V$ $0.75 V$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100Hz 8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05 db$ $<+/-$ 0.05 dbCrosstalk ( $20Hz-20kHz$ ) $> 77 db$ $> 85 db$	Efficiency (4Q)		
Frequency Response (20Hz-20kHz) $\pm$ 0.3db $\pm$ 0.4db20kHz) $\pm$ 0.3db $\pm$ 0.4db3.3Hz3.3Hzall loadsall loadsBalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Unbalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Dynamic Range $115db$ $118db$ Gain $0-39db$ $0-39db$ Sensitivity $0.55 \text{ V}$ $0.75 \text{ V}$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100\text{Hz }8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05db$ $<+/-$ 0.05dbCrosstalk ( $20\text{Hz}-20\text{kHz}$ ) $> 77 \text{ db}$ $> 85 \text{ db}$	D.C. : (0.0)	· ·	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		200W	500W
Lower Bandwidth3.3Hz all loads3.3Hz all loadsBalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Unbalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Dynamic Range $115db$ $118db$ Gain $0-39db$ $0-39db$ Sensitivity $0.55 \text{ V}$ $0.75 \text{ V}$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100\text{Hz }8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05db$ $<+/-$ 0.05dbCrosstalk ( $20\text{Hz}-20\text{kHz}$ ) $>77 \text{ db}$ $>85 \text{ db}$	2 2	0.011	0.4.11
Lower Bandwidthall loadsall loadsBalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Unbalanced Input Impedance $60.4k\Omega$ $60.4k\Omega$ Dynamic Range $115db$ $118db$ Gain $0-39db$ $0-39db$ Sensitivity $0.55 \text{ V}$ $0.75 \text{ V}$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor ( $100\text{Hz }8\Omega$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ Channel Tracking $0.05db$ $<+/-$ 0.05dbCrosstalk ( $20\text{Hz}$ - $20k\text{Hz}$ ) $> 77 \text{ db}$ $> 85 \text{ db}$	20kHz)		
Balanced Input Impedance $60.4$ kΩ $60.4$ kΩUnbalanced Input Impedance $60.4$ kΩ $60.4$ kΩDynamic Range $115$ db $118$ dbGain $0-39$ db $0-39$ dbSensitivity $0.55$ V $0.75$ VOutput Impedance $0.005$ Ω $0.005$ ΩMin Load $2$ Ω $2$ ΩDamping Factor ( $100$ Hz $8$ Ω) $2000$ $2000$ Max Output Current $35$ A $40$ AChannel Tracking $0.05$ db $<+/-$ 0.05dbCrosstalk ( $20$ Hz- $20$ kHz) $> 77$ db $> 85$ db			
Unbalanced Input Impedance $60.4$ kΩ $60.4$ kΩ           Dynamic Range $115$ db $118$ db           Gain $0$ -39db $0$ -39db           Sensitivity $0.55$ V $0.75$ V           Output Impedance $0.005$ Ω $0.005$ Ω           Min Load $2Ω$ $2Ω$ Damping Factor ( $100$ Hz $8Ω$ ) $2000$ $2000$ Max Output Current $35A$ $40A$ $<+/ <+/ <+/-$ Channel Tracking $0.05$ db $<+/-$ Crosstalk ( $20$ Hz- $-20$ kHz) $> 77$ db $> 85$ db			
Dynamic Range       115db       118db         Gain       0-39db       0-39db         Sensitivity       0.55 V       0.75 V         Output Impedance       0.005 Ω       0.005 Ω         Min Load       2Ω       2Ω         Damping Factor (100Hz 8Ω)       2000       2000         Max Output Current       35A       40A         <+/-			
Gain         0-39db         0-39db           Sensitivity         0.55 V         0.75 V           Output Impedance         0.005 Ω         0.005 Ω           Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           <+/-			
Sensitivity $0.55 \text{ V}$ $0.75 \text{ V}$ Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor (100Hz 8Ω) $2000$ $2000$ Max Output Current $35A$ $40A$ $< +/ < +/-$ Channel Tracking $0.05 \text{ db}$ $< +/-$ Crosstalk ( $20 \text{Hz}$ - $20 \text{kHz}$ ) $> 77 \text{ db}$ $> 85 \text{ db}$			
Output Impedance $0.005 \Omega$ $0.005 \Omega$ Min Load $2\Omega$ $2\Omega$ Damping Factor (100Hz 8Ω) $2000$ $2000$ Max Output Current $35A$ $40A$ $<+/ <+/ <+/-$ Channel Tracking $0.05 db$ $<+/ <+/-$ Crosstalk ( $20Hz$ - $20kHz$ ) $> 77 db$ $> 85 db$			
Min Load         2Ω         2Ω           Damping Factor (100Hz 8Ω)         2000         2000           Max Output Current         35A         40A           <+/-			
Damping Factor (100Hz 8Ω)       2000       2000         Max Output Current       35A       40A         <+/-	Output Impedance	$0.005\Omega$	$0.005\Omega$
Max Output Current         35A         40A           <+/-			
Channel Tracking	Damping Factor (100Hz 8Ω)	2000	2000
Channel Tracking         0.05db         <+/- 0.05db	Max Output Current	35A	40A
Crosstalk (20Hz20kHz) > 77 db >85 db		<+/-	
	Channel Tracking	0.05 db	<+/- 0.05db
Idle power consumption 25w 35w	Crosstalk (20Hz20kHz)	> 77 db	>85 db
	Idle power consumption	25w	35w

<sup>\*</sup>All specs are given as a per channel rating\*

WYRED 4 SOUND 4235 Traffic Way Atascadero, CA 93422 PH: 805-466-9973 FAX: 805-462-8962

support@wyred4sound.com
www.wyred4sound.com

©2013 WYRED 4 SOUND All rights reserved.