

*Wyred 4 Sound*

**mPRE**



## mini-PRE Owner's Manual

**\*\*IMPORTANT\*\***

**Check position of AC mains switch prior to connecting the unit to a power source.**

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## Register Your Product!

It is very important to complete the warranty registration form located on our website. You **MUST** complete and submit the form within 30 days of purchase to activate your warranty. When you navigate to our website there is a tab called “Register Products” that will allow you to fill out and submit the form.

**\*\*Keep your packaging!** It is custom made for your unit and will effectively protect it for possible future use. **\*\***

### Important

Please read the entire manual before connecting this product to any existing components. This manual contains detailed information regarding the design, operation and features of the Wyred 4 Sound mPRE. Damage due to misuse or failure to properly follow instructions will not be covered under warranty. See “Warranty” for an in depth understanding of warranty restrictions regarding this product.

### **\*\*Caution\*\***

**The mPRE has an external AC mains switch that must be properly configured before connecting to AC power. Any damage as a result of failure to set the switch properly is not covered under warranty. Please refer to the “AC Mains Voltage switch” section in the manual for the fuse value and configuration instructions.**

### **Unpack carefully**

The mPRE packaging contains:

- 1 – Owners Manual
- 1 – 6’ AC Power Cable
- 1 –3.5mm mono trigger cable
- 1 – mPRE pre-amplifier

## **Introduction**

Thank you for purchasing the Wyred 4 Sound mPRE. This compact Pre-amp/DAC is a very versatile unit that will adapt to many systems for years to come. Extensive amounts of engineering have been applied to produce remarkable performance and a noteworthy feature set in a chassis smaller than the average DAC.

The nature of a Wyred 4 Sound product is able to reproduce your favorite recording with an abundance of transparency and detail. The internal circuits and components are carefully selected and designed to reproduce our signature sound. Nothing is better than having Wyred behind your music!

We understand that there are many products on the market which have similar features and internal parts. Our implementation is what sets our products at another level. We design and manufacture in the USA to offer unmatched quality and value comparable to those produced in regions where manufacturing is much less costly. Aside from great customer service, build quality and absolute fidelity remain our greatest strength.

## **Design and Feature Overview**

A preamp plays a crucial role in any HiFi system. Its job is rather simple, but developing a component that is able to control levels without adding coloration, distortion, or any other undesirable attribute is a delicate matter. We began by designing a fully balanced circuit from input to output which actively rejects noise and lowers distortion. The noteworthy sonic benefits of the balanced architecture will be evident in both a lower noise floor as well as finer detail. The analog volume control design is very similar in principle to the award winning STP-SE. Additionally, the preamp has been equipped with completely separate right and left channels which begins with the power supplies. As a result of the absolute channel separation and remarkable channel matching, our new mPRE produces holographic imaging that is apparent at all listening levels. The fully balanced, dual mono, dual differential circuit design is unheard of at this price point. Implementing over 80 FET's which are quad-paralleled for lower noise and increased current is only one reason why the mPRE prevails. Input and output stages have been incorporated to preserve sonic integrity throughout the circuit. Because of an extravagant design, you will have the option to pair this preamp with anything from W4S solid state gear to tube equipment with excellent results.

This state-of-the-art preamp has a built-in DAC with three inputs which include Toslink, Coaxial and USB. All digital inputs support 24 bit 192kHz streaming. The ESS Sabre DAC utilizes Hyperstream™ and Jitter Elimination Architecture

rendering it immune to jitter. The USB interface is derived from the latest asynchronous XMOS design which is certified USB 2.0 High Speed and Audio Class 2.0 compliant. Consequently, our mPRE requires a quick driver install for PC machines and is driverless for Mac (10.6.4 and above) as well as Linux systems. Incredibly low latency in conjunction with the asynchronous mode communication and ultra precise clocks permits exceptionally high quality digital streaming. A pre-amp of this caliber and flexibility will efficiently improve your system.

The mPRE is equipped with a total of 3 analog inputs and outputs. Two of the analog inputs are RCA and one of them can be configured as a Home Theater bypass input. The two RCA outputs are the typical variable output type but one of them can be configured as a fixed out. Finishing it off is the balanced (XLR) input and output utilizing high quality Neutrik connectors. Due to the extent of this first-class design, single ended to balanced conversion is inherent in the design and ensures that all of the independent outputs are active regardless of the selected input. You can be confident that the signal path for your analog sources are highly refined with the mPRE.

On the occasion that you are craving a headphone session, the mPRE has a ¼" headphone jack on the front panel so you can plug right into the high performance headphone amp. Taking advantage of the dual mono design and low noise, the mPRE is nothing short of impressive. All of the benefits the preamp will be even more apparent with the headphone stage. An abundance of dynamic range and power capable of driving headphones down to 16 ohms makes for a true hi fidelity headphone experience.

Finally, the chassis design is attractive and functional. A front and top view of the unit reveals only two screws tucked neatly in the rear of the top cover. The front panel is meticulously machined from a solid piece of ¾" aluminum which is line grained and anodized in black. A radius on either side of the front panel smoothly rounds the corners off with elegance. custom side extrusions extend to the rear of the unit and bare the same high quality anodized finish. The top cover is available in clear anodize (Silver) or black and has stylish venting allowing heat to escape. The powder coated steel chassis has additional venting on both the bottom and rear to help with the passive cooling. You can be sure that the chassis is very rigid and immune to frequencies and vibrations which can be generated by the various components in a HiFi system.

## AC Mains Voltage switch

Located on the left side of the rear panel is an AC mains switch. When changing the 2 position slider switch the mPRE will need to be unplugged and powered down for at least 2 minutes. **It is very important to ensure that the slide switch is in the proper position before applying power. Failure to do so will likely result in damaging the internal components and will not be covered under warranty.**

The fuse is located above the IEC plug on the rear of the unit. It can be inspected by sliding the fuse holder out. (It has a symbol of a fuse on it)

Fuse size 5x20mm Slow Blow / T2.5A 250VAC

## Powering your Pre-amp

In order to power up the mPRE, the switch located on the rear must be in the “on” position. After a couple of seconds, the green light surrounding the power button on the front will illuminate. There is a built in 2 second delay after initially turning the switch on in the rear of the unit before you can press the power button. Pressing the power button will turn the unit on and the light around the power button will switch to blue. It is only necessary to turn the Pre-amp off with the switch on the rear when you are experiencing electrical storms in the area, or perhaps leaving town for a long duration. To prevent power surges, we recommend using quality surge suppression equipment. Turning the switch “off” on the rear of the unit will protect it for when you have doubts on power stability.

## “Break-in” period

The mini-PRE will perform very well right out of the box. You will experience improvements as it reaches the normal operating temperature and once all of the components have a chance to “settle in”. Our experience has shown that the mPRE will improve during its’ initial 300 hours of music playback. After the first 100 hours of music playback, (not just being powered on) the unit will start to shed any initial “brightness” and slightly harsh transitions. During the second 100 hours, the mPRE will start to become more fluid, and smoother overall. The remaining 100 will result in much finer improvements.

## Front panel operation and Remote Control Functions

The mPRE is very simple to operate from the remote control or front panel. A power button with an illuminated ring light is located on the lower right portion of the front panel. When the mPRE is plugged in and the rear power switch is in the “on” position the ring light will be green when in standby. To turn the unit on, press the power button on the front and the ring light will then change to blue.

There are 6 input select buttons on the front located on either side of the volume knob. To change inputs simply press desired input button or use the remote control to scroll through the inputs. The mute feature can be activated by using the remote control and can be pressed at any time to silence the analog outputs or the headphone output. The volume knob has a position indicator and with one turn, the mPRE can be adjusted from minimum to maximum output.

The LED brightness level can be adjusted by using the following procedure:

1. Ensure the unit is in standby by pushing the power button located on the front panel. (Standby is indicated by a green illuminated ring light)
2. First press and hold the AUX 2 input button in, and then power the unit on from standby by pressing the power button.
3. Once the unit is on you can release the AUX 2 button. Press the AUX 2 button to toggle through the brightness settings which will be previewed by the LED that is lit.
4. When you have found the setting that you prefer turn the unit off using the power button on the front to apply it.

**Special note: Aux 2/HT bypass and Variable/Fixed Out are selected by a 2 position switch. We will define “in position” as when the switch is pressed in and the button is nearly flush with the back of the unit. The “out position” will be defined as when the switch is in the extended position and not flush with the back of the unit**

### Aux 2/Home Theater Bypass

The mPRE can be easily integrated into your Home Theater system when using the selectable HT bypass. The switch to activate HT bypass is located on the left side of the rear panel indicated by #14 on the back panel diagram (pg. 8). When the switch is in the “out position”, Aux 2 is a standard analog input. When the 2 position switch is in the “in position” Aux 2 becomes the HT bypass input. If this is your desired function of the Aux 2 input it can be left in this position. When HT bypass is in use, the signal from your processor (or equivalent device) will pass

through the mPRE at unity gain. For example, if you feed 2.0V in you will get 2.0V out. This allows you to use the volume control of your processor to adjust the level of the gear connected to the mPRE. **This is a configuration switch and must be set with the mPRE powered completely off!**

### Variable/Fixed Out

There are two RCA pre-outs on the back of the mPRE. One of these outputs, indicated by #11 on the back panel diagram (pg. 8), can be easily configured as a variable or fixed unity gain output. In variable mode, it is a standard pre-out that is suitable to be connected to an amplifier or powered subwoofer. When the 2 position switch indicated by number #13 on the back panel diagram is in the “in position”, it will be a unity gain output. The fixed output configuration is perfect for feeding a signal to a second system or when recording. **This is a configuration switch and must be set with the mPRE powered completely off!**

### DC Trigger

On the left side of the rear panel you will find a 12V DC trigger input and output. If the HT bypass is not active, the trigger-in will turn the unit on from a standby state (illuminated green around the power button) to that last used input before the unit was turned off. When HT bypass is active, the trigger in will power the mPRE on directly to the Aux 2 input (HT bypass). Trigger out will be active whenever the mPRE is powered on. (Current Rating 20mA)

### USB Configuration (MAC)

Please follow these steps when connecting your new unit to a Macintosh computer. The USB interface is certified USB 2.0 High Speed and Audio Class 2.0 compliant meaning that no drivers are required for Mac systems 10.6.4 and later.

1. Connect a USB cable from the mPRE to the computer with the mPRE and computer powered on.
2. The USB device will automatically install but there will not be any indication aside from the device showing up in the Audio MIDI.
3. It is now necessary to select the mPRE as the output device for your computer. Please locate the Audio Midi setup by following this directory: Click On Finder----> Applications---> Utilities----> Audio Midi setup.
4. Once you have reached the Midi setup you will need to select the “Wyred 4 Sound 24/192 USB Audio Out” as the default output device and apply the setting. To apply the setting click on “Wyred 4 Sound 24/192 USB Audio Out” and then click on the “gear” icon located at the bottom of the window. When



you click the gear icon a pop up window will be displayed, click on “Use this device for sound output” to properly apply the setting.

5. Now you can open your preferred music playback program and find the preferences or options tab. Once you locate the output device option, make sure the “Wyred 4 Sound 24/192 USB Audio Out” audio interface is selected. It is not necessary to select the mPRE as the output device in iTunes and various other programs.
6. The last step is easy.....Enjoy your music!

## USB Configuration (PC)

You must first download the drivers which are required for asynchronous operation. They are available for download on the Wyred 4 Sound download web page. The drivers can be emailed to you if necessary, request them by emailing [support@wyred4sound.com](mailto:support@wyred4sound.com). Please follow these steps to install the driver. Keep in mind that you can always ask for help if the following steps don't seem to apply to your system.

Please note: Installation instructions below are for the Windows 7 operating system.

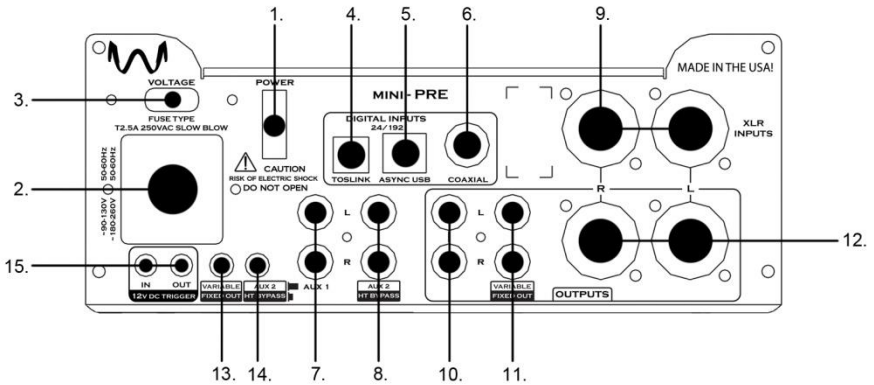
Other systems may vary slightly.

1. Navigate to the Wyred 4 Sound website downloads page.  
<http://www.wyred4sound.com/downloads.html>
2. Locate the file titled “W4S 24-192 Driver Package” and click “download”.
3. Next click “Save” and be sure to note or specify the folder on your computer where the file will save to.
4. When the download is complete click “open”
5. Open the folder titled “W4S 24-192 Driver”.
6. Now double click the file titled “setup” to begin installation. (It's the one that looks like a computer icon)
7. Click “Yes” when asked if you want to allow USB Audio 2.0 Class Driver Setup to make changes on your computer.
8. Click “Next” to proceed with installation.
9. Click “Install” to proceed with installation. It is not necessary to change the destination folder.
10. Once you are prompted that pre-installation is complete click “Next”.
11. You will be prompted that installation is complete, now click “Finish”.  
**If you are installing on a windows XP machine you may be prompted by the “Found new Hardware Wizard”. Proceed with installing the Hardware automatically to complete installation.**
12. After the drivers are completely installed you will need to select the unit as the default output device for your computer. The easiest way to get to the device selection screen, with Windows 7, is by selecting the “Start Icon” and then typing “Manage Audio Devices” in the **search programs and files** box. Click on “Manage Audio Devices” and select “Wyred 4 Sound 24/192 USB

Audio Interface”. You may need to use the “Set Default” drop down menu located at the bottom of the window. Keep in mind that each media player may require different steps to complete the setup process such as selecting the output device and mode.

13. Setup is now complete.....Enjoy your music!

### Back Panel Diagram



1. On/Off power switch
2. Fuse holder and AC power input
3. 120V/230V Mains Voltage selector switch
4. Toslink: Optical input for a digital source such as a TV, DVD player, Sonos, Airport express, CD player, etc.
5. 24 bit 192kHz Asynchronous USB: USB input for streaming music from a Mac, PC computer, or Music Server.
6. Coaxial: Input for a digital source such as a TV, DVD player, Sonos, Airport express, CD player, etc.
7. Aux 1: RCA analog input
8. Aux 2: RCA analog input or Home Theater bypass when switch #14 is set to the “in position”.
9. XLR: Balanced analog input
10. RCA pre-out
11. RCA pre-out: Selectable as a fixed or variable output by switch #13.
12. XLR pre-out
13. “Variable” or “Fixed out” selector switch for output #11
14. “Aux 2” or “HT Bypass” selector switch for input #8
15. 12V DC Trigger: Used for turning the unit on from a standby state as well as powering on equipment with a compatible trigger input. (20mA max output)

## Troubleshooting

### No sound?

If you have your input source and speakers connected but you can't get music to play, check the following: (Feel free to test for output at any time during this process if you find and correct a potential problem)

**Always check the position of the volume knob before starting to play music. Damage to any equipment due to volume spikes will not covered under warranty.**

1. Verify that the power cord is securely plugged into the wall and the mPRE.
2. Make sure that the Voltage Selector Switch is in the proper position. Also be sure to check the fuse which is located in the IEC inlet.
3. Check the switch on the rear to verify that it is in the on position. Make sure that the blue light is on around the power button and the proper input is selected. If the light around the power button is green, the power button will need to be pressed once to turn the Pre-amp on.
4. Inspect your source to make sure that it is sending a signal to the mPRE. If the source component is new and you have not yet confirmed that it works, consider trying a known good source.
5. Check the position of the volume knob on the mPRE. The point where sound will become audible varies with each system although it is typically around  $\frac{1}{4}$  of the way turned up (clockwise) from the lowest setting (all of the way counter-clockwise).
6. Carefully check your connections to your amplifier or active speakers to ensure that all components are powered on and ready for use.
7. Verify that the interconnects and speaker cables are working by replacing them with a different set from a connection that you know work. If these cables were used in the current setup and the only component that has changed is the mPRE continue to the next step.
8. Now that you have interconnects that you know work, try connecting them to another source that you also know has worked in the past.

If you are still experiencing problems and have exhausted your available resources and time please contact the dealer/distributor that you purchased the product from for further assistance.

### Got hum?

Is there too much hum coming out of your speakers? If the noise is easily heard at a distance, try putting the mPRE on mute. If this eliminates the noise, it could be getting fed from your source or the pre-amp may need to be serviced. If the noise still exists while muted, try disconnecting the inputs to the Pre-amp. If the noise is still there when the inputs are disconnected to the pre-amp you will want

to disconnect the inputs to your amp. If the noise is not present when the inputs are disconnected from either component, try putting a cheater plug (ground isolator) on one component at a time in order to locate the source of the ground loop. Once the source is located you can contact the manufacturer for further information regarding a solution. NOTE: We only recommend using a ground isolator for trouble shooting purposes, and should be removed after the problem has been found and resolved. 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 the source end of your system. **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 your cable or satellite signal through.

### **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.** 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 at no charge, 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 an 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 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, an Authorized Service Provider/dealer using the information provided on the Wyred 4 Sound website. A Wyred 4 Sound representative or an 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 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 Service page on the Wyred 4 Sound website. For more details on this and other matters on obtaining warranty service contact your dealer. 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 facility 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

(See "Contact Us" on our website for current hours of operation)

Fax: 805-462-8962

Email: [support@wyred4sound.com](mailto:support@wyred4sound.com)

Website: <http://www.wyred4sound.com>

### If you are located in the United States and purchased directly from W4S use the following procedure:

1. Fill out the Service form at the following address and be sure to document all details: <http://www.wyred4sound.com/Service.html>
2. If service is approved we will issue a Return Authorization Number (R/A number) from the Wyred 4 Sound Service Department. Be sure to confirm the current shipping address.
3. Insure and accept all liability for loss or damage to the product during shipment to the W4S facility 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 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.

### If you did not purchase the product directly from us and require service please contact your dealer or distributors' service department for information regarding service.

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 by emailing [support@wyred4sound.com](mailto:support@wyred4sound.com) or the phone number listed below to discuss and resolve the situation.

## Specifications

	XLR In/Out	RCA In/Out	Digital In / XLR Out
Typical THD+N (20Hz-20kHz) @ 2V	< 0.002% THD+N (A Wt.)	< 0.007% THD+N (A Wt.)	< 0.006% THD+N (A Wt.)
Noise (20Hz-20kHz) (A Wt)	< 12 $\mu$ V	< 8 $\mu$ V	< 12 $\mu$ V
Frequency Response (20Hz-20kHz)	$\pm$ 0.020 db	$\pm$ 0.002 db	$\pm$ 0.002 db
Channel Tracking	$\pm$ 0.020 db	$\pm$ 0.020 db	$\pm$ 0.020 db
Crosstalk	>95 db	>118 db	>118 db
Input Impedance	100k ohms	100k ohms	75 ohms (Coax)
Output Impedance	100 ohms	100 ohms	100 ohms
S/N	>103 db	>105 db	>105 db
Gain	11.4 db	5.3 db	17.2 db (Vrms/FS)

## Headphone Output

32 $\Omega$ Load	1.3 W @0.1% THD+N
300 $\Omega$ Load	255mW @0.1% THD+N
600 $\Omega$ Load	128mW @0.1% THD+N

# *Wyred 4 Sound*

**PH: 805-466-9973**

**Fx: 805-462-8962**

**Email: [support@wyred4sound.com](mailto:support@wyred4sound.com)**