SX-1000R
HIGH-POWER MONOBLOCK AMPLIFIER

USER MANUAL

Wyred 4 Sound
Important Safeguards

- All the safety and operating instructions should be read before this product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the appliance and in the operating instructions should be adhered to.
- Follow all instructions.
- The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like.
- Clean only with soft, dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way such as the power cord or plug is damaged. Other damage may occur if liquid or objects have been dropped or spilled into the apparatus. Dropping the apparatus, exposure to rain, and excessive moisture may cause additional damage.
- Keep the unit in a well ventilated environment. Ensure at least 4” clearance around top and sides.
- CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- WARNING: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
• △ The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

• No naked flame sources, such as lighted candles, should be placed on the apparatus.

• WARNING: The terminals marked with symbol of “+/−” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready made insulated leads or cords.

• Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

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

• Be sure to register your product. It is very important to complete the warranty registration form located on our website. Complete and submit the form within 30 days of purchase to activate your warranty.

FCC Warning
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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
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What’s Included

- SX-1000R amplifier
- Detachable power cable
- 12v DC trigger cable
- User Manual

Introduction

We greatly appreciate your purchase and trust that your new SX-1000R will provide you top-notch performance and years of satisfaction. All Wyred 4 Sound products are designed with one thing in mind: to bring the beauty of your music to life. Our hope is that you will come to admire us as a true audiophile-centric company committed to producing award-winning products that offer real value and pride-of-ownership.

Design Features

The SX-1000R is a perfect example of what can be accomplished when excellent engineering, knowledge and execution are combined. Adding to that are the high-caliber components used, selected for their functionality, durability, and quality. Benefitting from its own dedicated power supply, the SX-1000R will produce peaks in excess of 625W with 8Ω loads and 1225W with 4Ω loads. The compact and effective design is made easy thanks to the switching power supply that powers the bridged switching output stage derived from ICEpower™ technology.

A note on the input stage

With a meticulous and refined input stage that has been optimized for frequency response, distortion and performance, balanced or unbalanced inputs can be utilized with exceptional results. A tremendous amount of time has been spent tuning the front end to help produce a sound that is at once fluid, dynamic and involving. The circuit includes a dual-differential common mode converter which has been derived from our award-winning DAC-2. Regardless of input type, the high-quality differential input stage allows us to feed the amplifier with a true balanced signal. Another function of the front end is to isolate impedance mismatches which would otherwise become harmful to the sound. The high 91k Ω input impedance ensures synergistic matching with both solid state and tube components without loading down the output stage of your source. Furthermore, our third generation technology will significantly reduce the detrimental effects of a noisy source through balanced circuitry, audio grade capacitors, and the quad-paralleled front end.
Getting Connected

⚠ CAUTION: Disconnect the power cord or power the unit off before making any connections to reduce risk of electric shock and/or loudspeaker damage. NOTE: This is a true balanced amplifier. Never connect outputs to a ground point. Doing so may cause damage to the amplifier and/or connected gear and also void the warranty.

1. **Power Switch**
   Use the rocker switch to power the amp on or off. Although leaving the amplifier always on should be ok, we recommend turning equipment off when not in use, especially for long periods of inactivity. Powering the amp off will also help protect against electrical surges and spikes.

2. **Outputs**
   The WBT nextgen™ binding posts are some of the finest available. Use high quality speaker wire terminated as bare wire or with bananas or spades.

3. **Inputs**
   Either XLR or RCA interconnects may be used. For optimal performance, we recommend XLR.

4. **AC Inlet**
   Attach the supplied or your own power cable here. Be sure to observe proper voltage. Use of a quality surge protector is recommended to help prevent any damage from potential electrical events.
5. **12v Trigger In**
   You can connect the 12v trigger output of your preamp or source to the 12v trigger input of the SX-1000R for easy, remote power up. When the unit is in standby via the remote trigger, the amplifier is on, but disabled. The current draw in standby mode is less than 5W per channel. The trigger input will work from 5-15v, so there should be no issues with voltage tolerance on source outputs rated for 12v.

6. **XLR/RCA Switch**
   The XLR/RCA switch completely isolates the XLR input from the RCA input. This eliminates any possible combination of signals should both inputs be connected simultaneously. Be sure to set the switch according to the type of connection you are using.

**Placement**

The SX-1000R is built to provide years of trouble-free enjoyment. To maximize its life and your enjoyment, be sure to treat it like you would any fine piece of quality equipment. Take care not to place it in areas where excessive dust, dirt, moisture or other contaminants are present. A minimum of 4" of clearance should be observed around the top and sides to allow for airflow. We recommend elevating it on an audio rack, shelf or amp stand instead of placing it directly on the floor.

**Light Bar Brightness**

The light bar brightness can be adjusted through a hole on the bottom of the chassis. Dim or brighten the light bar by using a miniature flat head screwdriver and rotating the potentiometer inside. In this way, the light bar can be turned completely off if desired.

**Short Circuit/Over-Current Protection**

Your SX-1000R has built-in current and thermal protection. Before any damage can be done by short circuit, over-current or temperature, the amplifier will go into protect mode. If this happens, the output is immediately terminated. Should this occur, power the amplifier off prior to troubleshooting. If the amplifier is abnormally warm/hot, let it cool before powering it back on. If the amplifier is not beyond excessively warm, check all connections for possible shorts. If you can’t find any indication of the problem, disconnect everything but the power cord and power it on. If the unit powers on but no sound is heard when you connect it back to your system, the unit may need to be repaired. Contact your dealer or Wyred 4 Sound if this occurs.

**“Break In” Period**

Your new SX-1000R series amplifier will deliver outstanding performance right out of the box. However, optimal performance will be realized after it reaches normal operating temperature. Further improvements will be heard once all of the internal components have had a chance to “break in”. Experience has shown that the amplifier will realize its full potential after being played ~300 hours.
Troubleshooting

No Sound?
If you have your source and speakers connected with music playing but no sound is audible, check the following:

1. Ensure none of your components are in ‘mute’
2. Verify that the power cord is plugged in and that the both the unit and outlet are powered on.
3. Check the front panel and make sure that the light bar is on.
4. If the light bar is off and there still isn’t any sound, put your ear next to the tweeter of your speaker and have someone turn your amplifier on and off; you should barely hear a click when the amplifier is turned on and off.
5. 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.
6. Verify that the XLR/RCA switch is properly set.
7. Try replacing the interconnects to verify the connection between the amplifier and source is sound.
8. Verify your interconnects are working by replacing them on a different set from a connection that you know works.
9. 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?
If you put your ear right next to the tweeter of your speaker, you should barely be able to hear any hiss from the amplifier in normal conditions. If the noise is easily 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 preamplifier 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 troubleshooting purposes only, 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 start disconnecting components one at a time, starting with your source component. Digital cable boxes and satellite receivers are notorious for creating a 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
If the SX-1000R faults, see section “Short Circuit/Over-Current Protection” above for possible reasons. 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, it may mean you may need a more powerful amplifier for your tastes or system. If it faults without playing too loud, your speakers may be too demanding and may require a higher wattage amplifier. Contact your dealer or Wyred 4 Sound for further assistance.
Warranty Coverage

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 a Wyred 4 Sound Authorized Service Provider; (e) unauthorized removal of cover (f) 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 HOWEVER 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

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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 your Wyred 4 Sound representative. 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.

Service

In the event there is a problem with your Wyred 4 Sound component, first contact your dealer, distributor, or Wyred 4 Sound directly to discuss the issue 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).

Wyred 4 Sound
Phone: +1 (805) 466-9973
Fax: +1 (805) 462-8962
Email: support@wyred4sound.com
Website: wyred4sound.com
Office hours: Mon – Thurs: 7am – 4:30pm. Fri: 7am – 11am, PST

Service procedure

1. Contact your dealer or Wyred 4 Sound to discuss the issue(s)
2. If repair is deemed necessary, fill out the online Service form at wyred4sound.com/support/service-request
3. After the form is received, Wyred 4 Sound Service Department will email you an RA number and instructions.
4. Write the RA number on the outside box. 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 of the original packaging to ensure the safe transit of the product is strongly recommended. To purchase additional packaging if needed, please contact your authorized Wyred 4 Sound dealer, distributor, or the Wyred 4 Sound Service Department for assistance.

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 SX-1000R amplifier is set to a fixed voltage to match your country’s requirements and may not be easily changed. Should voltage change be required, contact Wyred 4 Sound.

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### SX-1000R Specifications

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<th>Value</th>
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<tr>
<td>Typical THD+N 8Ω (10W out)</td>
<td>0.0055%</td>
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<tr>
<td>Power Output 8Ω @ 0.2% THD+N</td>
<td>570W</td>
</tr>
<tr>
<td>Power Output 8Ω @ 1.0% THD+N</td>
<td>625W</td>
</tr>
<tr>
<td>Power Output 4Ω @ 0.2% THD+N</td>
<td>1,140W</td>
</tr>
<tr>
<td>Power Output 4Ω @ 1.0% THD+N</td>
<td>1,225W</td>
</tr>
<tr>
<td>IMD (CCIF)</td>
<td>0.0005%</td>
</tr>
<tr>
<td>Transient Intermodulation (TIM)</td>
<td>0.005%</td>
</tr>
<tr>
<td>Output Idle Noise</td>
<td>&lt;80uV</td>
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<tr>
<td>Efficiency (4Ω)</td>
<td>79% @ 1000W</td>
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<tr>
<td>Efficiency (8Ω)</td>
<td>78% @ 500W</td>
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<tr>
<td>Frequency Response 20Hz-20kHz</td>
<td>± 0.4db</td>
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<tr>
<td>Lower Bandwidth</td>
<td>3.3Hz all loads</td>
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<tr>
<td>Balanced Input Impedance</td>
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<tr>
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<tr>
<td>Dimensions</td>
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<tr>
<td>Weight</td>
<td>13 lbs.</td>
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