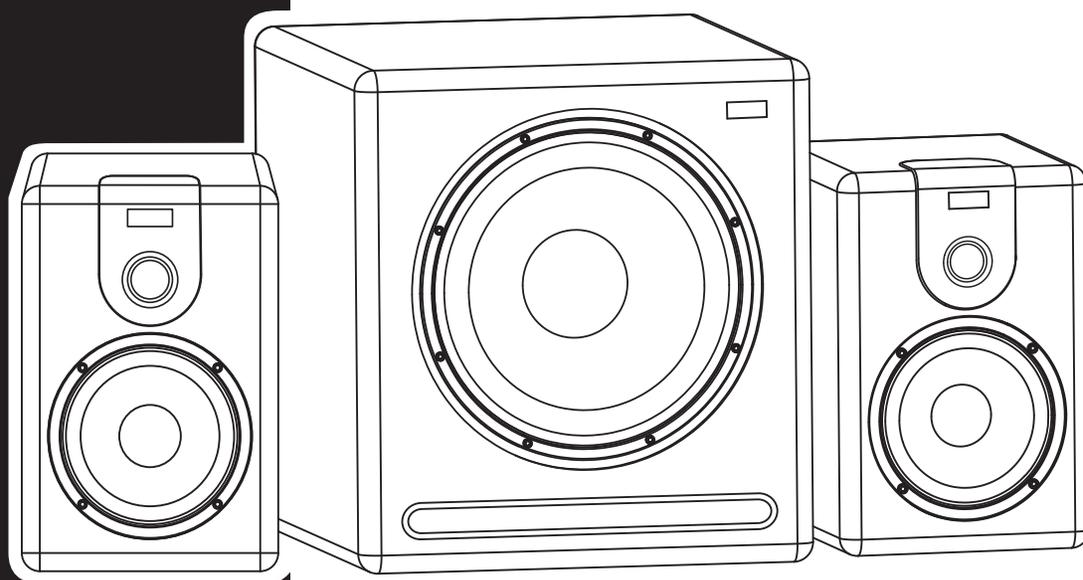


CLARITY SERIES
CLARITY 5A/6A/8A/10A
ACTIVE 2 WAY STUDIO MONITOR

USER'S MANUAL




sound*sation*

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Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality commercially-available speaker cables with 1/4" TS plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service 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 operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Legal Disclaimer

Technical specifications and appearance are subject to change without notice. The information contained herein is correct at the time of printing. All trademarks are the property of their respective owners

INTRODUCTION

Congratulations on your purchase!

Growing demands on music recording professionals have created the need for better monitor performance at more realistic prices.

The CLARITY-Series class of Powered studio monitors was created to meet these needs. Please take a moment to carefully read the information in this guide.

UNPACKING

Your Monitor has been carefully inspected and tested before packing and shipping. After unpacking your Monitor Subwoofer carefully inspect it for exterior damage and immediately report any physical damage during transit to your shipping carrier. Save the shipping boxes and all packaging materials in case the unit needs to be returned to your local dealer.

Additional contents (1) Power Cord.....(1) User Manual

We Want You Listening For A Lifetime!

Dear customer:

Selecting fine audio equipment such as the unit you have just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This Manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what's sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, This Manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

**Decibel
Level Example**

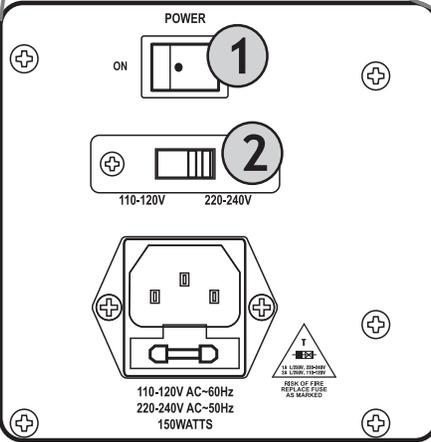
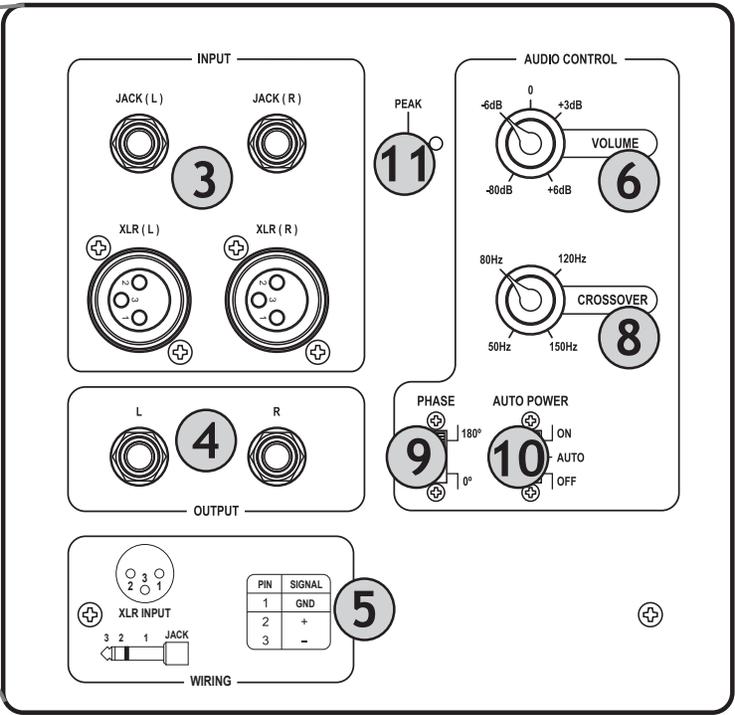
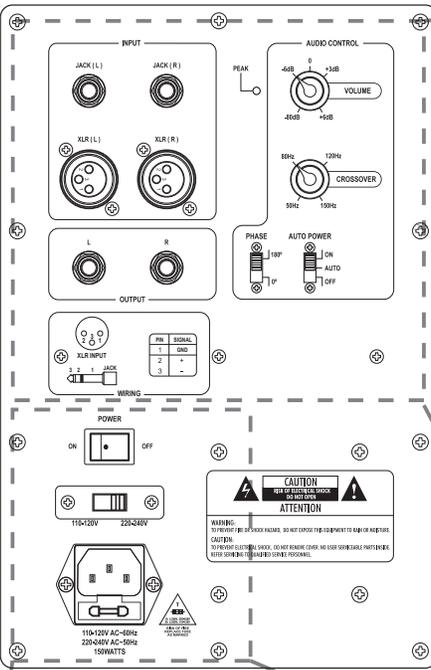
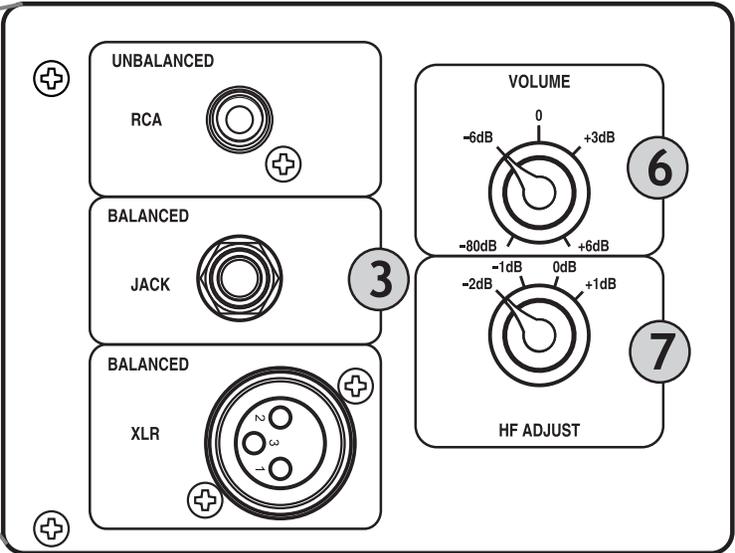
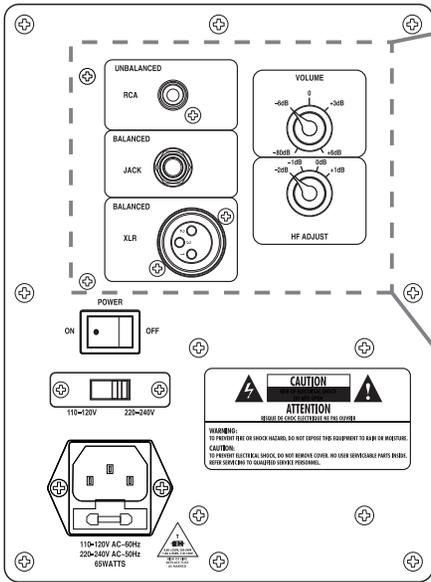
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacume cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

MONITOR/SUBWOOFER REAR PANELS



Note: CLARITY-5A, CLARITY-6A, CLARITY-8A, CLARITY-10A have similar back panels.

CONNECTIONS

1 Powering On

All Connections should be made, all fader controls should be set at their minimum levels, and all other equipment should be powered on prior to powering on your monitors.

The power On/Off switch is located on the rear panel a orange LED located on the front of the speaker behind the logo will illuminate when power is applied

2 Changing Voltage

CAUTION

Before turning on the equipment make sure that it is set to the correct voltage

To change the voltage, remove the power cord, slide voltage selector to desired voltage setting. Please note when making voltage changes the fuses will have to be replaced (See changing fuses section below)

CHANGING FUSES

Under normal operation the fuses should not blow. A blown fuse usually indicates an overload or fault condition. To change the fuse, remove the power cord pry off the fuse block with a small flathead screwdriver and change the blown fuses.

Refer to specifications page (7) for fuse current ratings.

3 Audio Inputs

The XLR and TRS are balanced inputs
The RCA input is an unbalanced input.

AUDIO INPUT

10K OHMS BALANCED

PIN 2 + TIP = HIGH

PIN 3 + RING = LOW

PIN 1 + SLEAVE = GROUND

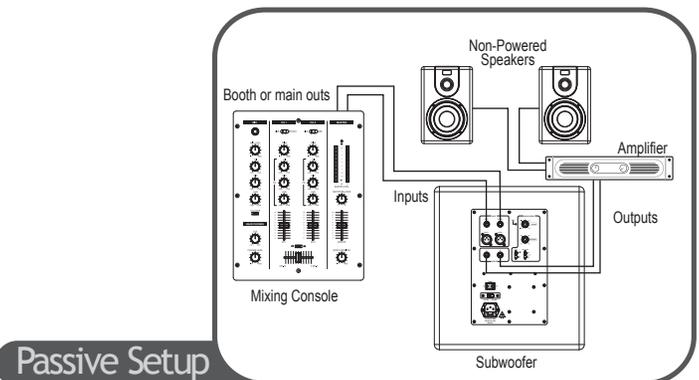
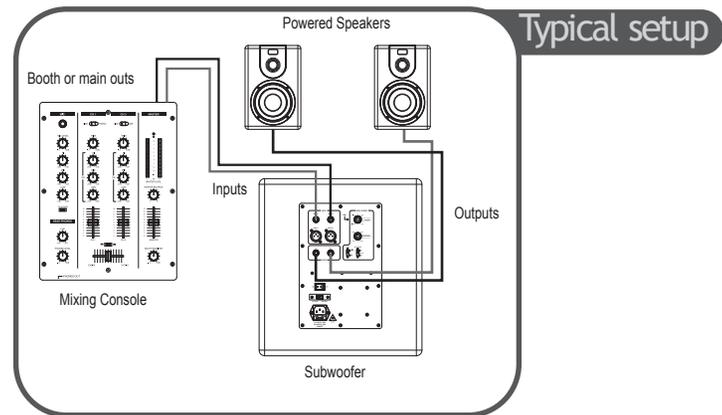
4 Subwoofer Hook-Up

The Subwoofer includes a built-in crossover and amplifier, so you only need the appropriate hookup cables to integrate it into your existing monitor system. First, you need to connect a pair of cables from the stereo monitor outputs of your console or DJ mixer to the XLR or 1/4" input jacks on the subwoofer.

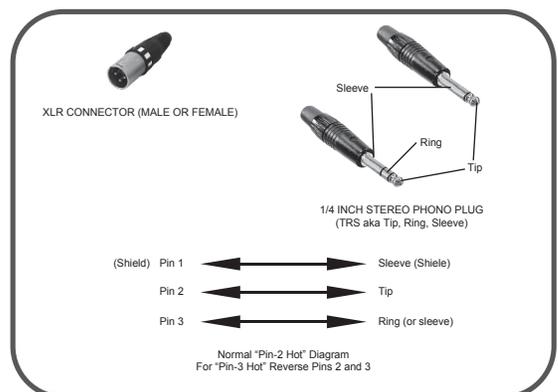
Next, if you are using the internal 80-hz high-pass filter built into the subwoofer for the existing full-range monitors (and most of you will), hook up the 1/4" output jacks on the subwoofer to the line-level inputs of your full range speakers

If on the other hand, you are using passive (non-powered) monitor speakers that require an external amplifier, hook the two outputs of the subwoofer up to the inputs of the stereo monitor amplifier. Typically this would also be an XLR connector, but if need be, you could use the connections providing the amplifier will accept them at amp input. Connect the power amplifier to the speakers as you normally would.

DO NOT ATTEMPT TO HOOK THE SPEAKER OUTPUT OF THE MONITOR AMPLIFIER TO THE INPUT OF THE SUBWOOFER, YOU RUN THE RISK OF DAMAGING THE EQUIPMENT.



5 Wiring



SYSTEM CONTROL/ SPEAKER PLACEMENT

6 System Volume

The input sensitivity is adjusted (counterclockwise reduces sensitivity) with the rear panel mounted system gain control. Adjustment range is from -80db to +6db, which should suffice for most conditions. Normally adjustments would only be made if you're using your monitor in a surround system and need to balance levels or if your monitor send is to hot and not adjustable.

7 HF Adjustment

High Frequency Adjustment is through a rear panel mounted 4-position rotary switch. Range of control is +1db, flat, -1db, or -2db Shelving above 2khz. Factory setting for your powered Monitor is flat (switch is the 0db position). Room acoustics may dictate which type of adjustment you need to make to retain a flat frequency response from the monitor.

8 Crossover

This adjusts the crossover frequency for the built-in 24db/octave variable crossover. The crossover frequency can be adjusted from 50Hz to 110Hz. Frequencies below the crossover frequency are sent to the subwoofer, and frequencies above the crossover frequency are sent to the LEFT and RIGHT OUTPUTS, which are connected to the main satellite speakers. Set the crossover frequency to the lowest frequency response rating of the main /Satellite speakers.

9 Phase

This switch reverses the polarity of the signal going to the subwoofer amplifier by 180°. It has no effect on the signal at the LEFT and RIGHT OUT or the MASTER OUT. There is no right or wrong setting for this switch. Listen to the overall blend of the subwoofer with the rest of the system, and select the switch position that gives you the best sound.

10 Auto Power

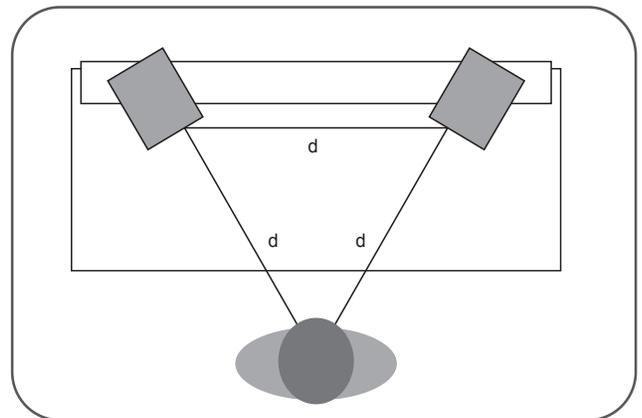
If set to the AUTO position the subwoofer will go into STANDBY mode (mute) if Idle for more than 45 minutes it resumes working immediately after an input signal is received. If set to the ON position it will be on constantly, and the OFF position allows you to use the subwoofers power switch Manually.

11 Peak LED

The Peak LED will illuminate if the input channels are being overloaded.

Speaker Placement

Positioning your monitors correctly in the studio is critical to their performance. Typically, they should be placed so that the listening position is fully "covered" with all monitors resting on the same horizontal plane. A great way to test a monitor for its imaging capability is to play back a CD or DVD recorded acoustically in stereo. We recommend acoustic music because it represents the spectrum of sound. You can adjust the angle of each monitor by listening for dead spots. Keep in mind, changing the angle or position of a monitor will change the sound.



TROUBLESHOOTING

PROBLEM: IF THERE IS NO POWER, CHECK TO SEE IF...

- The power cord is plugged into both the IEC socket on the rear panel of the unit and into the AC mains
- The AC mains voltage is matched to the operating voltage requirements See Changing Voltage in the Connecting the System section on page 4). If the AC mains voltage is higher than the monitor selected voltage it is possible that the fuse needs to be replaced. (See Changing Fuses in the Connecting the System section on page 4).
- The power light is illuminated on the front panel of the monitor. If not, turn the power switch OFF and check the A/C mains fuse(s). NEVER USE A LARGER AMPERAGE FUSE THAN IS SPECIFIED! Turn the power switch back on. The power light should illuminate.
- If a fuse change was needed and upon powering the monitor back up the fuse(s) blow again, the monitor needs to be returned to the dealer you purchased it from for servicing.

PROBLEM: IF YOU CAN'T HEAR ANY SOUND...

- Repeat steps in the previous troubleshooting section above before continuing to the next steps.
- Check to see if all other audio devices using the same AC outlet are still operating.

• MAKE SURE THAT:

- The audio source cable is plugged into both the source output and the monitor input.
- The system gain pot is turned up fully clockwise (+ 6 dB).
- The signal source (E.g. mixing console, work station, CD player, etc.) is turned up to a level that can properly send a signal to the monitors.
- If one of the monitors is working. Exchange the audio input cable from the non-working monitor to the working unit. This will determine whether it's really the monitor, a faulty cable, or some other glitch in the audio chain.
- If the monitor is still not responding, it should be returned to the dealer that you purchased it from for servicing.

PROBLEM: IF THE MONITOR SUDDENLY STOPS WORKING...

- Turn the monitor off.
 - Repeat steps in the troubleshooting sections above before continuing to the next steps.
 - Carefully check to see if the amplifier's back plate is hot! If the monitor has been running at highest power output for an extended period of time, it could be that the unit has become overheated and the protection circuitry has shut the system down momentarily. The monitor provides maximum circuitry protection against AC power surges, amplifier overdrive, and overheating of the amplifiers. Turn the monitor off then wait 30 minutes to allow the back plate to cool down. Turn the power switch back on.
 - Increase the volume to check for normal operation.
 - If the monitor is still not responding, it should be returned to the dealer that you purchased it from for servicing.
- Problem: The sound quality changes... • Repeat steps in the previous trou-

bleshooting section above before continuing to the next steps.

- Disconnect the signal cable at the input of the monitor. With power on, place your ear close to each driver (tweeter/woofer) and listen for noise (i.e., a slight hiss or hum). If there's absolutely no sound whatsoever, it could be that one or more of the drivers (woofer or tweeter or both) is at fault. It's also possible that the problem lies somewhere in the electronics.
- Play some non-distorted source material at a low volume. Carefully cover the tweeter (to block the sound) without touching the diaphragm. Is the woofer producing a clean sound? If there is not a clear tonal quality or any sound at all then the woofer probably needs to be replaced.
- Cover the woofer so you can hear mostly the tweeter. Is the tweeter producing a clear sound? If there is not a clear tonal quality or any sound at all then the tweeter probably needs to be replaced.
- Once you have a better idea of what may be at fault then call us and speak with someone in the service department. They will help you determine the best solution to correct your monitors.

PROBLEM: THE MONITOR HISSES, HUMS OR MAKES OTHER LOUD NOISES...

Here are some suggestions that will help you eliminate these undesirable from your system:

- Make sure that the power cord is plugged snugly into the IEC socket on the rear of the monitor.
- Check the connections between the signal source and the monitor. The MONITOR'S XLR and TRS connector is a completely balanced system. If you're connecting an unbalanced output to the monitor, be sure that you're using PIN 2 for signal and have PIN 1 and PIN 3 tied together at the source end.
- Refer to the Connecting the System section on page 4 of this manual to ensure that the AC mains is matched to the operating voltage requirements.
- All audio equipment should use the same ground point. Check all other devices using the same AC output in the building like dimmers, neon signs, TV screens, and computer monitors. These devices should not be using the same circuit.

SPECIFICATIONS

CLARITY-5A

CLARITY-6A

CLARITY-8A

CLARITY-10A

Frequency Response	53Hz -20kHz +/- 2.0dB	50Hz -20kHz +/- 2.0dB	45Hz -20kHz +/- 1.5dB	35Hz -150Hz
High Frequency Driver	1" Soft Dome	1" Soft Dome	1" Soft Dome	N/C
Low frequency Driver	5" Aramid Glass Fiber	6.5" Aramid Glass Fiber	8" Aramid Glass Fiber	10" Aramid Glass Fiber
Cabinet Dimensions (HxWxD)	27.5cm x 18.5cm x 22.5cm	32 cm x 22.8 cm x 26.8 cm	38 cm x 26.5 cm x 30.5cm	38.2 cm x 35.5 cm x 39.8 cm
Net Weight	7.2Kg	9.4Kg	12.4Kg	17Kg

AMPLIFIER

Power rating MAX	100 watts	130 watts	180 watts	200 watts
Power rating (HF/LF) RMS	15 watts / 35 watts	15 watts / 50 watts	15 watts / 75 watts	100 watts
Signal to Noise (HF/LF) T.H.D. (HF/LF)	82dB/90dB .05/.02	82dB/90dB .05/.02	82dB/90dB .05/.02	90dB 1
Input Impedance				
Balanced	10K Ohm	10K Ohm	10K Ohm	10K Ohm
Unbalanced	10K Ohm	10K Ohm	10K Ohm	10K Ohm

CROSSOVER

Crossover frequency	3KHz	2.6KHz	2.4KHz	160Hz
Subsonic Filter	45Hz	40Hz	35KHz	35Hz

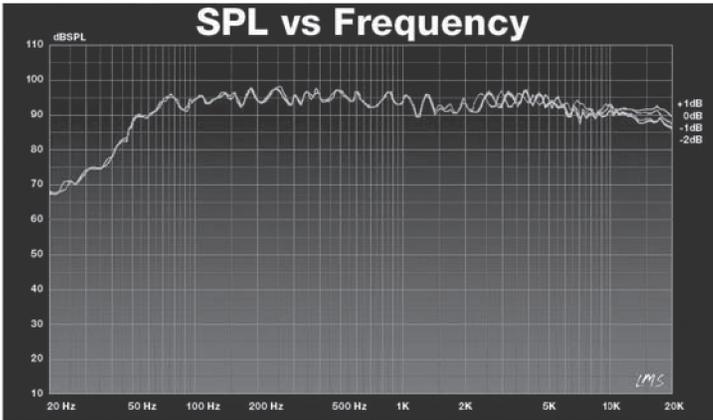
FUSE 5mm x 20mm 100V 120V 220V - 240V	0.8A	1A	1.6A	1A
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FEATURES

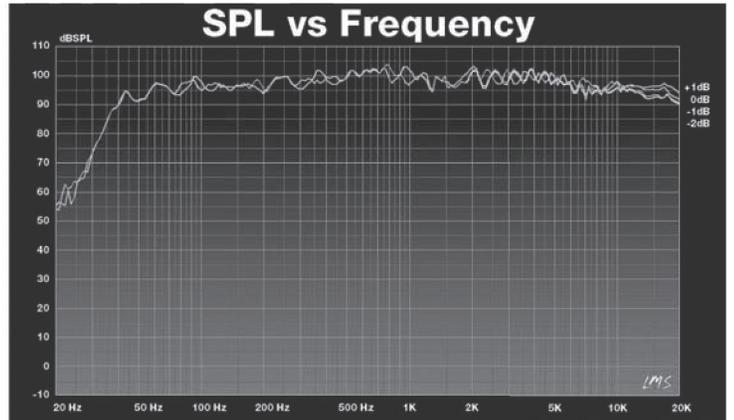
XLR & 1/4"TRS Connectors	Yes Yes	Yes Yes	Yes Yes	Yes Yes
RCA Connectors	Yes	Yes	Yes	Yes
System Volume Control	Yes	Yes	Yes	Yes
Auto Power	No	No	No	Yes
LED Power indicator	Yes	Yes	Yes	Yes

SPL CURVES

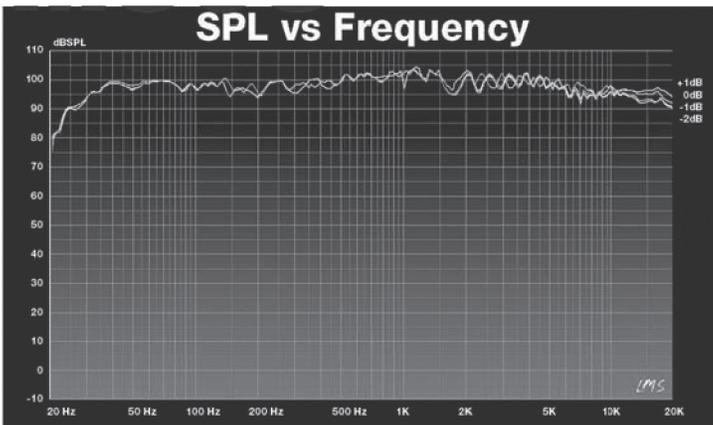
CLARITY-5A



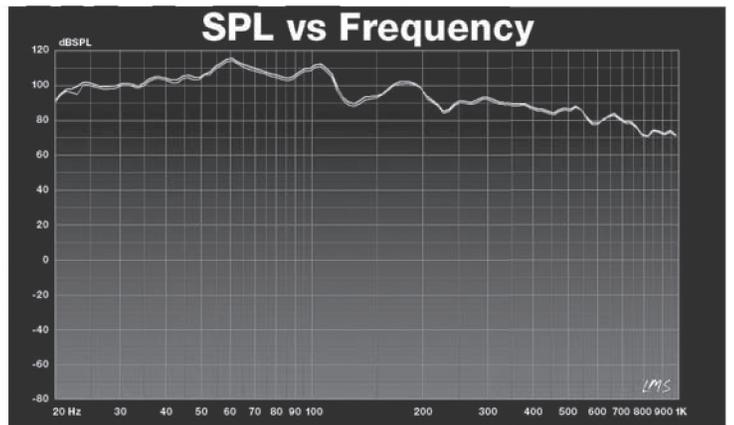
CLARITY-6A



CLARITY-8A



CLARITY-10A



WARRANTY AND SERVICE

All SOUNDSATION products feature a limited two-year warranty. This two-year warranty is specific to the date of purchase as shown on your purchase receipt.

The following cases/components are not covered from the above warranty :

- Any accessories supplied with the product*
- Improper use*
- Fault due to wear and tear*
- Any modification of the product effected by the user or a third party*

SOUNDSATION shall satisfy the warranty obligations by remedying any material or manufacturing faults free of charge at SOUNDSATION's discretion either by repair or by exchanging individual parts or the entire appliance. Any defective parts removed from a product during the course of a warranty claim shall become the property of SOUNDSATION.

While under warranty period, defective products may be returned to your local SOUNDSATION dealer together with original proof of purchase. To avoid any damages in transit, please use the original packaging if available. Alternatively you can send the product to SOUNDSATION SERVICE CENTER – Via Enzo Ferrari , 10 – 62017 Porto Recanati - Italy . In order to send a product to service center you need an RMA number. Shipping charges have to be covered by the owner of the product.

For further information please visit www.soundsationmusic.com

WARNING

PLEASE READ CAREFULLY – EU and EEA (Norway, Iceland and Liechtenstein) only



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2202/96/EC) and your national law.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (WEEE) .

Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time , your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about where you can drop off your waste equipment for recycling , please contact your local city office , waste authority , approved WEEE scheme or your household waste disposal service.



MADE IN CHINA

This product is imported in EU by
FRENEXPORT SPA – Via Enzo Ferrari, 10 - 62017 Porto Recanati - Italy

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