



Owner's Manual

SC-2
System Controller

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



Danger

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



Important

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



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the 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

Important Safety Instructions

Please read all instructions and precautions carefully and completely before operating your Wisdom Audio equipment

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 a dry cloth.
7. Do not block any ventilation openings. Install in accordance with manufacturer instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
10. Apparatus with Class I construction shall be connected to a mains socket outlet with a protective earthing connection.
11. 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 of the third prong are provided for your safety. If the provided plug does not fit into your socket, consult an electrician for replacement of the obsolete outlet.
12. Appliance coupler on the power cord is used as the disconnect device, the disconnect device shall remain readily operable.
13. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
14. Only use attachments/accessories specified by the manufacturer.



15. Use only with the bracket specified by the manufacturer. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
16. Unplug this apparatus during lightning storms or when unused for long periods of time.
17. Refer all servicing to qualified 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.
18. ALWAYS disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.
19. NEVER operate this product with any covers removed.
20. NEVER wet the inside of this product with any liquid.
21. NEVER pour or spill liquids directly onto this unit.
22. NEVER bypass any fuse.
23. NEVER replace any fuse with a value or type other than those specified.
24. NEVER operate this product in an explosive atmosphere.
25. Always keep electrical equipment out of the reach of children.

Explanation of Symbols Marked on the Unit.



Standby: This button brings the unit in and out of standby to the on position.



On: When the AC Mains switch on the rear panel of the unit is in this position the power to the unit is on.



Off: When the AC Mains switch on the rear panel of the unit is in this position the power to the unit is off.



Risk of Electric Shock – Do Not Open: Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Important: Intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this equipment.

Table of Contents

Unpacking.....	7
Placement & Ventilation.....	8
Operating Voltage & Special Features.....	9-10
Front & Rear Panel.....	11-19
Configuration & Calibration.....	19
Care & North American Warranty	20
Obtaining Service	21
Specifications.....	22

DOCUMENT CONVENTIONS

This document contains general safety, installation and operation instructions for the Wisdom Audio SC-2 System Controller. It is important to read this document before attempting to use this product. Pay particular attention to:

WARNING: Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in injury or death.

CAUTION: Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in damage to or destruction of part of or the entire product.

Note: Calls attention to information that aids in the installation or operation of the product.

Unpacking the SC-2

Please exercise caution when unpacking your new Wisdom Audio SC-2 to ensure that you do not strain yourself.

CAUTION:

Do not attempt to lift your SC-2 while bending or twisting from the waist. Use your legs for lifting, not your back.

Always stand as straight as possible and keep the SC-2 close to your body to reduce strain on your back.

After unpacking your SC-2, keep all packing materials for future transport. In the event that you need to ship your SC-2, only the original, purpose-designed shipping carton is acceptable. Any other method of shipping this product runs a significant risk of damage to the SC-2; damage that would not be covered by the warranty.

Carefully inspect your SC-2 for possible damage due to shipping. If you discover any, contact your Wisdom Audio dealer immediately.

Placement Considerations

PRECAUTION

For your protection, review “Important Safety Instructions” and “Operating Voltage” before you install your SC-2.

Note that adequate clearance for the AC cord and connecting signal cables must be left behind your SC-2. We suggest leaving at least six inches (15 cm) of free space behind your SC-2 so all cables have sufficient room to bend without crimping or undue strain.

If possible, the SC-2 should also be placed in such a way that the power switch on the rear panel is easily accessible. This switch disconnects power from the unit completely, resulting in effective disconnection of the SC-2 from the AC mains. You might think of this as a “vacation switch”, should you wish to turn off your system completely when you will be away from home for a prolonged period of time. Just remember to turn it back on again when you return.

Ventilation

Your Wisdom Audio SC-2 contains many active devices and a great deal of signal processing. It will run quite warm under normal operation. It should not be placed directly on top of another component that generates significant heat, such as most power amplifiers. Do not block the vents on the sides of the unit.

Mechanical drawings are included in this manual to facilitate special installations where necessary (see “Dimensions” at the end of this manual).

Operating Voltage

Rated Input: 100 -240 VAC, 50-60 Hz, 0.5 A Max.

For fuse replacement please see Rear Panel #6.

Special Design Features

Advanced Room Correction: Dirac® Room Calibration reduces sound quality loss due to the listening room and improves the audio performance of your speakers, thereby providing powerful sound quality improvement. You will experience improved clarity, tighter bass and a more natural sound. This sophisticated algorithm brings out the full potential of audio systems.

Multiple Setup Memories: We then went further and provided support for recalling up to four complete and independent setup calibrations, any of which can be selected as needed. While a single setup is all that is usually necessary, having the ability to recall any of multiple setups can solve some otherwise difficult situations. For example, you might want to have selectable setups for

1. different room conditions (e.g., drapes open vs. closed)
2. slightly different target curves (e.g., music vs. gaming)
3. various seating arrangements

Only you and your dealer can decide whether you would benefit from taking advantage of any of these possibilities. Most people obtain everything they need from a single setup; but having the flexibility to address unusual circumstances can be invaluable.

Bi- or Tri-amplification: People who have wanted to extract the highest performance from their systems have known for a long time that driving each section of the speaker directly and separately yields the finest results. Of course, this requires having a dedicated, active crossover to divide the frequency range appropriately before the power amplifiers, so that they can then drive the speakers directly.

Bi-amplification makes use of two channels of amplification to drive different portions of a single channel. The most common instance of “bi-amping” today is in home theater applications, wherein a dedicated subwoofer handles the deepest bass, while the remaining audible range is handled by the various front and surround speakers.

Special Design Features *(Continued)*

But you can also bi-amplify a full range loudspeaker, driving the woofer separately from the drivers that handle the midrange and treble frequencies.

Logically, you can combine these two approaches, and the result is “tri-amplification.” A “tri-amped” system uses separate amplification for three audible ranges. In our case, the three ranges are:

- deepest bass (one or more subwoofers)
- mid-bass (the woofers in the front and surround speakers)
- midrange and treble (the planar magnetic panels)

Since each channel of the amplifier is delivering current into its load only over a limited range of frequencies, several forms of distortion are reduced as compared to each channel handling the full range of musical information.

The SC-2 supports up to 8 channels of inputs (all of which could be bi-amplified), and 16 output channels all with Dirac, and also their own independent user EQ and channel delay.

System-Specific EQ: Wisdom Audio speakers deliver extraordinary performance from slim, elegant enclosures. However, we cannot cheat the rules of physics. Delivering powerful bass from such small enclosures places unusual demands on both the woofers and the amplifiers used to drive them.

Specifically, equalization is used to compensate for the unusually small enclosure volume behind the woofer. This approach is used in almost all dedicated subwoofers today, and we use it in our full range speakers. Doing so allows us to achieve the bass performance usually associated much larger speakers, but in elegant enclosures that support modern lifestyle choices.

Front Panel



1. Power Switch, Standby Indicator and Input Clip Indicator

The SC-2 features a sculpted front panel that conceals two switches under the flexible ends of the middle section. On the left side, gently pressing the end of the center section will engage a micro switch under the face of the SC-2, which will in turn toggle the unit between **operate** and **standby** modes. The international symbol for power is inscribed in this location to designate its purpose.

The amber LED indicator on the left side of the center section is lit when the SC-2 is in standby to indicate that it is receiving power; it is off when the SC-2 is either fully on or when there is no power being supplied to the unit. (When the SC-2 is fully on, one of the setup memory LEDs will be lit to indicate both power and which setup memory is being used. Note that if there is no calibration stored in the unit, setup LED 1 will be flashing blue. If all the LEDs are off, no power is being supplied to the unit.)

The SC-2 requires approximately 45 seconds to “boot up” when coming out of stand-by. The amber LED flashes during this startup process, turning off when it is complete. One of the Setup Memory LEDs will turn on at this point to indicate which memory is active).

Finally, if the SC-2 detects input clipping on any of its channels, the Standby LED will flash rapidly for three seconds. If the clipping continues (at least once per three-second interval), it will continue flashing. In the unlikely event that you see this indication, you should turn the system volume down to reduce distortion and potential damage to your speakers.

2. Setup Memory LED Indicators

The Wisdom System Controller incorporates the latest version of Dirac® Live room correction to enable it to address room-specific problems that would otherwise compromise performance.

Front Panel (*Continued*)

In most circumstances, a single calibration of the system for the room and your preferred listening positions is all that is necessary. But the SC-2 provides storage of up to four complete and independent calibrations to address various situations.

These four LEDs indicate which of the four setup memories is currently active. They also serve to indicate that the unit is powered up and operating normally. (When the unit is in standby, only the amber standby LED on the left side of the front panel is lit; the blue memory LEDs are off.)

The LEDs indicate which of the four-setup memories is active:

- LED 1 on = Setup memory #1 enabled
- LED 2 on = Setup memory #2 enabled
- LED 3 on = Setup memory #3 enabled
- LED 4 on = Setup memory #4 enabled
- LED 1 blinking slowly = Dirac® bypassed temporarily

The bypass mode is available so you can hear the difference room correction has made on your system. When the room correction is bypassed, the active crossover and other system-specific circuitry are still engaged. This allows you to easily hear only what the room correction software is doing for your system. You can cycle through the available memories and back to bypass mode by pressing the Setup Calibration Switch to the right of these indicators. (See 3, below.)

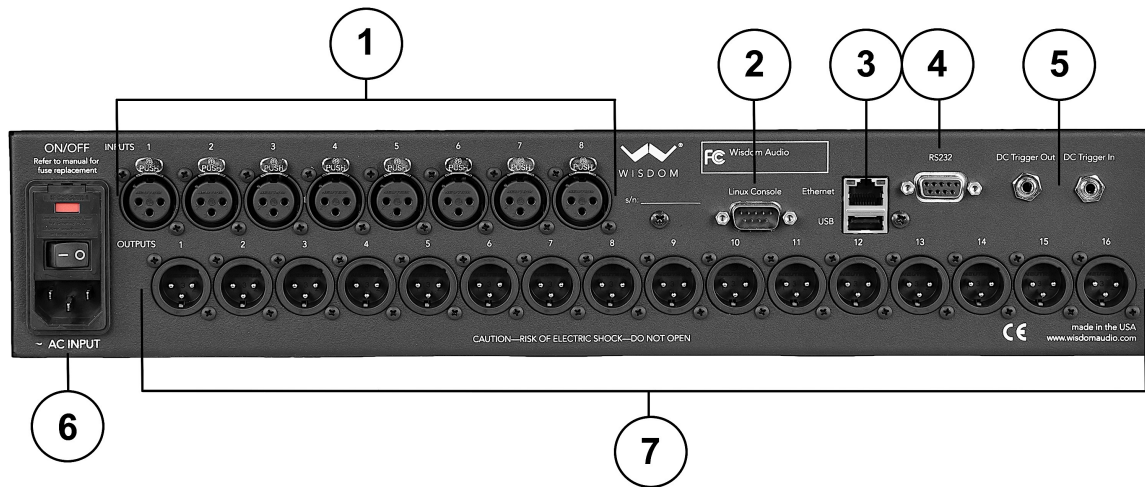
3. Setup Calibration Selector Switch

Pressing the right side of the center section of the SC-2 front panel will activate a micro switch that cycles the unit through the available setup memories.

If only one memory has been set up (which is fairly typical), pressing this button will toggle Dirac on and off. If multiple setups have been stored, pressing this button will cycle through the available setups in order, ending in the same bypass mode for the room correction prior to starting the cycle over again:

- Setup Memory 1
- Setup Memory 2 (if available)
- Setup Memory 3 (if available)
- Setup Memory 4 (if available)
- Bypass Dirac®

Rear Panel



CAUTION!

Turn off your power amplifiers before attempting to connect anything to your Wisdom Audio SC-2.

1. 8 Channel Inputs

The SC-2 supports multi-channel/multi-room systems of up to eight channel configurations. These eight balanced audio inputs accept signals from a preamplifier/processor with balanced outputs via high quality XLR connectors.

The pin assignments of this XLR-type female input connector are:

Pin 1: Chassis ground

Pin 2: Signal + (non-inverting)

Pin 3: Signal – (inverting)

Connector ground lug: chassis ground



We recommend using one of our **WWK-BB2/WWK-BB3** custom high quality balanced audio interconnect kits to ensure the best audio signal and reliability.

Refer to the operating manual of your balanced-output preamplifier to verify that the pin assignments of its output connectors correspond to your Wisdom Audio SC-2.

Using single-ended preamplifiers:

If your preamplifier/processor does not have balanced outputs, the adapter used to convert from balanced to single-ended should tie Pin 1 and Pin 3 (the inverted signal) together. This can easily be checked with an ohmmeter: the resistance between Pin 1 and Pin 3 should approach zero.

CAUTION! The Single Ended to Balanced adapter on the input side of the SC-2 is wired differently than the appropriate adapter on the output side. Please refer to the output section of this manual (section 7.) for connecting to Single Ended Amplifiers.

As mentioned above if you have a single-ended unbalanced preamp/surround processor

we recommend purchasing one of our premium custom **WWK-CUSTOM2** and or **WWK-CUSTOM3** interconnect kits that can be made with either balanced and or unbalanced connections.

2. Linux Console

Do not use! This is ONLY for internal use only.

3. Ethernet & USB

Ethernet: In order to setup an SC-2 by using its Web Interface you must have the SC-2 connected to your home Network.

USB: Do not use! This is ONLY for internal use.

4. RS232

The RS232 interface allows an external control system such as AMX, Control4, Crestron, or Savant to control the system. All basic operational modes are supported (operate, standby, selecting presets).

Connection Specification:

The RS232 DB-9 female connector is wired as a DCE, and connects via straight cable to a DTE, or via null modem/crossover cable to another DCE.

The Pinout:

- Pin 2 is the TRANSMIT for data *from* the SC-2 System Controller *to* the control system and carries RS232 signal name RxD.
- Pin 3 is the RECEIVE for data *from* the control system *to* the SC-2 and carries RS232 signal name TxD.
- Pin 5 is the GROUND/COMMON for the pin 2 and pin 3 signals.

4. RS232 (Continued)

- The other pins are not connected; the shell is grounded at the chassis.

Signal names RxD and TxD are named from the point of view of the DTE and that is why the signal names appear to be backward but are not per the standard. Off the shelf USB RS232 Adapters plug right into the port and work as expected with no special configuration.

Communication parameters are:

- Baud Rate: 9600
- Bits: 8
- Parity: None
- Stop Bits: 1

On Startup:

When the SC-2 System Controller is first powered up, it will identify itself to the external control system via the RS232 port, by sending one of these messages:

- Ready
- ERROR

Depending on whether there is at least one preset that has been calibrated and is available for use. For proper operation, at least one preset must be saved into the non-volatile memory.

Commands

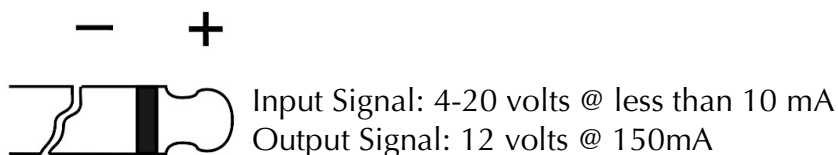
- OPERATE - Will bring the unit out of standby and into on state
- STANDBY - Will bring the unit into standby
- EQ1 - Will make Preset 1 Live, will also bring the unit out of standby
- EQ2 - Will make Preset 2 Live, will also bring the unit out of standby
- EQ3 - Will make Preset 3 Live, will also bring the unit out of standby
- EQ4 - Will make Preset 4 Live, will also bring the unit out of standby
- EQOFF - Will make Bypass Live, will also bring the unit out of standby
- STATUS - Will provide a list of current status to the control system

Commands are terminated by either a CR (carriage return) or LF (line feed) character. Responses to all commands are either OK or ERROR (when trying to address a non-existent preset)

5. DC Trigger In and Out

These 12v trigger jacks provide compatibility with a wide range of products to facilitate remote turn-on and turn-off in systems. These 1/8" (3.5 mm) "mini-jacks" allow other components to bring the SC-2 in and out of standby. Two such mini-jacks are provided to allow "daisy-chaining" of this turn-on signal with other components, including additional amplifiers.

The remote trigger input will be operated by any positive-polarity DC signal between 3–20 volts (only a few milliamps are required), with tip polarity as shown below



The DC Trigger Input has priority over the front panel switch. Therefore, if a trigger voltage is present at this input connector, the unit will be forced on and the front panel switch will be ignored. When the voltage transitions from high to low (off), the unit will go into standby.

When there is no voltage present at the trigger input (either because the controlling device is not sending, or because the plug is removed), the front panel switch will operate the SC-2, as you would expect.

The 12v Trigger Output jack is driven to a "high" state of 12 volts a few seconds after the SC-2 is turned on and can source as much as 100 mA of current at 12 volts. This signal may be used in turn to control other components, such as additional Wisdom Audio SA-series amplifiers. Each Wisdom Audio component has a short delay built into its DC trigger system to facilitate a staggered turn-on sequence.

Your Wisdom Audio dealer can help you take advantage of these design features to maximize your system's convenience and versatility.

6. AC Mains Input & Switch

A conventional, 15-ampere IEC standard power cord is used with the SC-2. A high-quality AC mains cord is included with the product, although the use of the standardized IEC receptacle means that you may easily substitute another high-quality AC mains cord if you wish.

WARNING! Your new Wisdom Audio SC-2 has been safety-tested and is designed for operation with a three-conductor power cord. Do not defeat the “third pin” or earth ground of the AC power cord.

An **AC mains switch** is located above the power cord on the rear panel of the SC-2. This switch may be used to disconnect the unit from the AC mains without having to actually unplug the SC-2 from the wall outlet.

If you plan to be away for an extended period or have any other reason to turn the SC-2 completely off, you may either unplug the SC-2 or you may use the **AC mains switch**.

DANGER! Potentially dangerous voltages and current capabilities exist within your SC-2. Do not attempt to open any portion of the SC-2’s cabinet. There are no user-serviceable parts inside your SC-2. All service of this product must be referred to a qualified Wisdom Audio dealer or distributor.

We recommend that care be taken to ensure that all AC plugs for the equipment in the system be wired so as to ensure proper AC polarity. Doing so will minimize noise in the system.

In the U.S., a simple AC mains tester (found at any hardware store) can test to ensure that your electrical outlets are wired properly. Elsewhere in the world (for example, in European Union countries), the AC mains plugs themselves are not always polarized. Your dealer can test for the proper orientation of the plug in the outlet. In such a case, it is good practice to mark both plug and outlet to ensure that all products remain in the proper orientation should it become necessary to temporarily disconnect the system (as for example, during an electrical storm).

Finally, the Wisdom Audio SC-2 incorporates a fuse block that protects both the live and neutral (ground) sides of the circuit. If your SC-2 is plugged into an AC outlet that you know is live (plug a lamp into it as a test), and yet appears to be off, check the following:

- a. Check the AC cord to make sure it is not damaged.
- b. Check the AC mains switch to ensure that it is On (the side with the straight line is depressed, not the “O” side).
- c. If that does not resolve the problem, turn Off the AC mains switch (“O”) and

- then disconnect the power cord from the AC mains receptacle.
- d. Using a small screwdriver, gently pry open the fuse block cover at the top edge of the assembly. (You may be able to do it with just your fingernail.)
 - e. Pull out the red fuse block, and check fuse. If blown, please contact your local Wisdom Audio dealer (or Wisdom Audio) for service.

7. Outputs

These 16 balanced audio outputs carry the room-corrected *full-range*, *high-pass*, and or *low-pass* portion of the audio spectrum and must be connected to the amplifiers that drive the loudspeakers and or subwoofers.

NOTE: We recommend using one of our **WWK-BB2/WWK-BB3** custom high quality balanced audio interconnect kits to ensure the best audio signal and reliability.

The pin assignments of this XLR-type male output connector are:



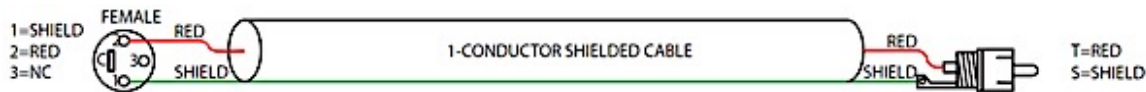
- Pin 1: Chassis ground
- Pin 2: Signal + (non-inverting)
- Pin 3: Signal – (inverting)
- Connector ground lug: chassis ground

These pin assignments are consistent with the standards adopted by the Audio Engineering Society and are used with the purpose-designed SA Series power amplifiers from Wisdom Audio. If you elect to use a different amplifier for your woofers, please refer to the operating manual of your power amplifier to verify that the pin assignments of its input connectors correspond to your Wisdom Audio SC-2. If not, wire the cables so that the appropriate output pin connects to the equivalent input pin, in order to preserve the polarity of the musical signal.

If your power amplifier does not have balanced inputs, the adapter used to convert from balanced to single-ended must “float” Pin 3 (the inverted signal). This can easily be checked with an ohmmeter: the impedance between Pin 3 and *either* the center pin or the shield skirt on the RCA should be infinite. Tying the output of Pin 3 to ground (as some adapters do) will compromise the performance of the SC-2.

7. Outputs (Continued)

- The correct wiring for converting Balanced to Single Ended for the output of the SC-2 is shown below.



CAUTION! Note that a Balanced to Single Ended adapter for use on the output side of the SC-2 is different than the appropriate adapter on the input side. Should you need them, properly wired adapters are available from Wisdom Audio for a nominal charge

However, as mentioned previously we recommend using our pre-made Custom Interconnect Kits (**WWK-CUSTOM2** and or **WWK-CUSTOM3**) for the best in audio performance and reliability.

Configuring your SC-2 and Preparing for Calibration

Prior to setting up your SC-2 please we recommend watching the System Controller Configuration Tutorials found on our **YouTube** Channel

<https://www.youtube.com/watch?v=wjlpZngnJR0>

Locating the SC on your network:

- Device is configured via Ethernet/IP/HTML. Ensure Device is connected to LAN.
- The device should always be discoverable at first startup by entering **<http://SC.local/wizard.html#>** into the address bar (This is the same log-on for both the SC-2 & SC-3, unless your unit has been upgraded to the new firmware then it is simply: **<http://SC.local/wizard.html#>**) of your web browser (Google Chrome works best).
- If you cannot locate the device. The backdoor is to locate its IP address and access it directly. This can be done by IP search wizards such as Angry IP Scanner. Look for the MAC Vendor named "IEEE". The MAC address should start off with Momentum Data System's Mac Vendor ID: 70:B3:D5:E4:5X:XX
- Once the IP address has been discovered use it to access the device, do not forget to add /wizard.html# to be taken to the Configuration Page. Example <http://192.168.1.10/wizard.html#>

System Calibration

We recommend you contact your dealer, or regional Wisdom Audio representative about purchasing a Factory Calibration & Room Commissioning (2 month advanced noticed is required).

Care & Maintenance

To remove dust from the cabinet of your SC-2, use a feather duster or a lint-free soft cloth. To remove dirt and fingerprints, we recommend a soft cloth.

CAUTION! At no time should liquid cleaners be applied directly to the SC-2, as direct application of liquids may result in damage to electronic components within the unit.

North American Warranty

When purchased from and installed by an authorized Wisdom Audio dealer, Wisdom Audio electronic products are warranted to be free from defects in material and workmanship under normal use for a period of five years from the original date of purchase.

During the warranty period, any Wisdom Audio component exhibiting defects in materials and/or workmanship will be repaired or replaced, at our option, without charge for either parts or labor, at our factory. The warranty will not apply to any Wisdom Audio component that has been misused, abused, altered, or installed and calibrated by anyone other than an authorized Wisdom Audio dealer.

Any Wisdom Audio component not performing satisfactorily may be returned to the factory for evaluation. Return authorization must first be obtained by either calling or writing the factory prior to shipping the component. The factory will pay for return shipping charges only in the event that the component is found to be defective as mentioned above. There are other stipulations that may apply to shipping charges.

There is no other express warranty on this component. Neither this warranty nor any other warranty, express or implied, including any implied warranties of merchantability or fitness, shall extend beyond the warranty period. No responsibility is assumed for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and other states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty is applicable in North America only. Outside of North America, please contact your local, authorized Wisdom Audio distributor for warranty and service information.

Obtaining Service

We take great pride in our dealers. Experience, dedication, and integrity make these professionals ideally suited to assist with our customers' service needs.

If your Wisdom Audio loudspeaker must be serviced, please contact your dealer. Your dealer will then decide whether the problem can be remedied locally, or whether to contact Wisdom Audio for further service information or parts, or to obtain a Return Authorization. The Wisdom Audio Service Department works closely with your dealer to solve your service needs expediently.

IMPORTANT! Return authorization must be obtained from Wisdom Audio's Service Department **BEFORE** a unit is shipped for service.

It is extremely important that information about a problem be explicit and complete. A specific, comprehensive description of the problem helps your dealer and the Wisdom Audio Service Department locate and repair the difficulty as quickly as possible.

A copy of the original bill of sale will serve to verify warranty status. Please include it with the unit when it is brought in for warranty service.

WARNING! All returned units must be packaged in their original packaging, and the proper return authorization numbers must be marked on the outer carton for identification. Shipping the unit in improper packaging may void the warranty, as Wisdom Audio cannot be responsible for the resulting shipping damage.

Your dealer can order a new set of shipping materials for you if you need to ship your loudspeaker and no longer have the original materials. There will be a charge for this service. We strongly recommend saving all packing materials in case you need to ship your unit some day.

If the packaging to protect the unit is, in our opinion or that of our dealer, inadequate to protect the unit, we reserve the right to repackage it for return shipment at the owner's expense. Neither Wisdom Audio nor your dealer can be responsible for shipping damage due to improper (that is, non-original) packaging.

Specifications

All specifications are subject to change at any time, in order to improve the product.

- **Internal Processing:** 24-bit 96kHz
- **Frequency Response:** 20 Hz – 40k Hz ± 0.75 dB
- **Signal to Noise ratio:** –110dB (ref 2.5V rms A-wtd.)
- **Input impedance:** 32k Ω (balanced)
- **Output impedance:** 182 Ω
- **Maximum output voltage:** 12.3V rms
- **Maximum input voltage:** 3.88V rms
- **Power consumption in idle:** 3W
- **Maximum power consumption:** 40W
- **DC trigger input sensitivity:** 4-24 Volts @ 5 mA
- **DC trigger output signal:** 12 Volts @ 150 mA
- **Mains voltage ranges:** 90-264 volts 47-63 Hz
- **Shipping weight:** 30 lbs / 13.6 kg
- **Dimensions HxWxD:** 3.75" x 17" x 13.63" (8.57cm x 43.2cm x 34.7cm)

For more information, see your Wisdom Audio dealer, or contact:

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