



OWNER'S MANUAL

Cinema 11

Digital Surround Sound Processor

NOTE: Before installing your new component, please read this manual carefully as it will inform you of the product specifications, proper installation and correct operating procedures for your unit. Also included in this manual are guidelines on how to service and care for your new Cary Audio Design product.

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IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION: To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Please refer to qualified personnel for service.

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

1. **READ ALL INSTRUCTIONS:** All the safety and operating instructions of your Cary Audio equipment should be read before power is applied to the equipment.
2. **RETAIN OWNER'S MANUAL:** These safety and operating instructions should be retained for future reference.
3. **HEED WARNING:** All warnings on the unit and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS:** All operating and use instructions should be followed.
5. **CLEANING:** Unplug the unit from the wall outlet before cleaning. The unit should be cleaned only as recommended by the manufacturer.
6. **ATTACHMENTS:** **Do not** use attachments not recommended by the unit manufacturer as they may cause hazards.
7. **WATER AND MOISTURE:** **Do not** use the unit near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool.
8. **ACCESSORIES:** **Do not** place the unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child, an adult, or damage to the unit. Mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
9. **VENTILATION:** Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. The top or bottom panel openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. The unit should not be installed in a built-in location such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 6 inches (16cm) above the unit and an opening behind the unit.
10. **GROUNDING OR POLARIZATION:** The unit may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you cannot insert the plug fully into the outlet, try reversing the plug. If the plug should fail to fit, contact a licensed electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
11. **POWER SOURCES:** The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your unit dealer or local power company.
12. **POWER CORD PROTECTION:** Power supply cords should be routed so that they are unlikely to be walked on or pinched by items placed on or against them. Pay close attention to cords where they enter a plug, or a convenience receptacle, and the point where they exit from the unit.
13. **OUTDOOR ANTENNA GROUNDING:** If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, NSI/NFPA 70, provides information regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an Antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

IMPORTANT SAFETY INSTRUCTIONS

14. **LIGHTNING:** For added protection for the unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.
15. **POWER LINES:** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits as contact with them might be fatal.
16. **OVERLOADING:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
17. **OBJECT AND LIQUID ENTRY:** Never push objects of any kind into the unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
18. **SERVICING:** Do not attempt to service the unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. **REPLACEMENT PARTS:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
20. **SAFETY CHECK:** Upon completion of any service or repairs to the unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
21. **WALL OR CEILING MOUNTING:** The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **HEAT:** The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.
23. **IMPORTANT SAFETY NOTE:** Before connecting a new component such as the DVD 7 to your audio or home theater system it is always good practice to make certain that all components are turned off, and preferably unplugged from their AC power source. Many modern electronics products feature automatic turn-on circuits that may be activated during an installation, causing the potential for damage to electronic components and/or speakers. Such damage is not covered by product warranties and Cary Audio specifically disclaims responsibility for any such damage.

Power Cord: The removable power cord that is shipped with the player is specifically designed to be used with this product. Other AC cords may be used, so consult your dealer for advice on AC power cords and high quality wire in your system.



AC Fuse: The fuse is located inside the chassis and is not user serviceable. If power does not come on, contact your authorized service representative.

Wiring: Cables that run inside of walls should have the appropriate markings to indicate compliance with, and listing by the UL, CSA or other standards required by the UL, CSA, NEC or your local building code. Questions about cables inside of walls should be referred to a qualified custom installer, or a licensed electrician or low-voltage contractor.

Do Not Open the Cabinet: There are no user serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty. If water or any metal object, such as a paper clip, coin, or staple accidentally falls inside the unit, disconnect it from the AC power source immediately and contact Cary Audio for further instructions.

24. **RECORDING COPYRIGHT:** Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.
25. **NOTE TO CATV SYSTEM INSTALLER:** This reminder is provided to call the CATV system installer's attention to article 820-40 of the NEC, ANSI/NFPA 70, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

IMPORTANT SAFETY INSTRUCTIONS

26. FCC INFORMATION FOR USER:

CAUTION: ANY changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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.

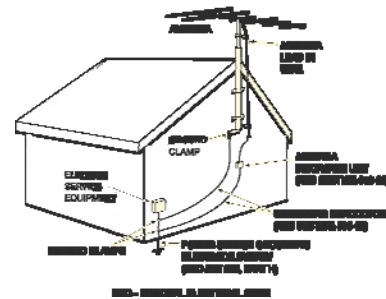
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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 where the receiver is connected.

27. OUTDOOR ANTENNA INSTALLATION/SAFE ANTENNA AND CABLE CONNECTION:

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide protection against built up static charges and voltage surges, Section 810 of the national Electrical Code, ANSI/NFP A70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



Keep Antenna Clear of High Voltage Power Lines or Circuits

An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

WELCOME

THANK YOU

Congratulations on becoming a Cinema 11 owner!

Thank you for purchasing the Cinema 11 Digital Surround Sound Processor. The Cinema 11 is our fourth generation AV preamplifier design and it is meant to be a reference quality surround sound audio control center with very sophisticated automatic or manual set up functions. We believe it sonically surpasses all our previous designs! It is aimed at ease of use for normal home surround systems or for use in custom installations. It has independent 2nd zone remote control as well so you can enjoy surround sound in your home cinema main room and have 2nd zone stereo sound in another part of the house. We have a separate remote handset for each zone so that control of input source selection in each of the two zones is easy at the same time.

All of the Main Room audio output connectors have 24-bit/192 kHz D/A converters operating in dual differential mode for excellent sound quality and high dynamic range. In addition, the Cinema 11 includes 7.1 channel XLR balanced audio outputs for your main listening room if you are using a power amplifier with balanced input connections.

The Cinema 11 is designed to remain viable in a future of rapidly emerging digital technologies. It has a rear panel RS-232 serial port connector provided for home automation serial control and allows us to perform flash-memory software upgrades with this connection. We have added an unusual looking 'system link' connector to support digital future expansion for high definition audio codecs included with the new higher definition video disks now being sold. The system link connector is available for future new surround modes like Dolby True HD and DTS-HD, making it possible to more than quadruple the Cinema 11's tremendous processing power. This connector is originally from the computer industry and features frequency bandwidth capabilities exceeding 2 GHz! We will make an adapter for video processing to access this connector and offer high performance video switching and scaling to our users. (There will be more news about this later on our web site - www.caryaudio.com)

We firmly believe in high performance audio designs that offer incredible value for the money. With the Cinema 11 we have achieved our sonic and system control goals handily. It is an unparalleled surround sound processor. The Cinema 11 represents a solid investment with awesome processing power, highly flexible configuration setting possibilities and leading-edge technological sophistication. Even the most demanding enthusiasts will be impressed with its exceptional sonic performance. Add to this extensive expansion capabilities, and the Cinema 11 is a 'must have' addition for any high-quality home theater.

Thank you for your continued support and enjoy your movies!

The Cary Audio Team

WELCOME

PRODUCT FEATURES

More than just an audio control center, the Cinema 11 features the latest version of CES 7.1 decoding, which derives 7.1 channel output from stereo, 5.1 and 6.1 channel sources. Unlike other decoders, CES 7.1 is compatible with all input sources and requires no special encoding. Because the improvement it provides is clearly audible, CES 7.1 decoding is widely regarded as the finest available.

In addition to CES 7.1, the Cinema 11 is also equipped with Dolby Digital Surround EX, Dolby Pro Logic II, Dolby Pro Logic IIx, dts 96/24, dts NEO:6, and dts-ES decoding.

With 32-bit audio digital signal processing (DSP) engines, the Cinema 11 offers unparalleled processing power. These DSP engines perform custom Cary Audio processing such as auto sound setup system, CES 7.1 decoding, bass enhancement, dialog enhancement, bass management, high-precision digital crossover, and room EQ. This processing is available at sample rates up to 192 kHz, with 24-bit resolution to retain top performance from all input sources and listening modes. A DSP engine is dedicated to decoding multi-channel compressed audio sources.

10 channels 24-bit/96 kHz A/D converters can be used to convert stereo analog audio input and 7.1 analog audio input signals to digital signals, allowing the Cinema 11 to provide the benefits of precise digital signal processing without sacrificing signal integrity. Alternatively, stereo analog XLR or 7.1 bypass signals and 7.1 analog signals can bypass A/D conversion and internal processing to remain in the analog domain straight to the output connectors.

The Cinema 11 offers:

- 8 inputs; one balanced and seven single ended with RCA connectors; including S/PDIF coaxial, S/PDIF optical, and analog pairs
- 7.1 channel analog audio input connections
- Analog bypass option for stereo and 7.1 channel analog audio input connectors
- Auto switching between digital and analog audio input connectors
- 24-bit/192 kHz D/A converters for all Main Zone audio channels
- Automatic and manual calibration of speaker distances and output levels
- 32-bit DSP engines
- CES 7.1 decoding
- Dolby Digital Surround EX, Dolby Pro Logic IIx and Dolby Pro Logic II decoding
- dts 96/24, dts-NEO:6 and dts-EX (discrete and matrix) decoding
- RS-232 connector for flash memory software upgrades and configuration tool downloads
- Optical digital audio output connector for Zone 2 (Toslink)
- 3 12 volt output connections with 1/8" mini plug connectors
- 2 IR input connections
- XLR microphone input connections
- 7.1 Balanced audio output connectors for Main Zone

WELCOME

UNPACKING AND INSTALLATION

This section describes the unpacking and installation procedures for your new component.

Unpacking

All Cary Audio Design shipping cartons have been specially designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. If shipping damage is found after visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the transport carrier immediately.

Carefully remove your new component from its packing carton and examine it closely for signs of shipping damage. We strongly recommend saving all original packing cartons to protect your component from damage should you wish to store it or ship it at a later date.

In the Box

When unpacking your Cinema 11 processor, make sure the following accessories are included. You should find the following items:

- Power Cable
- 2 Remote Controls (batteries already installed)
- Owner's Manual
- Warranty Card

Warranty Card

If you are the original purchaser of this unit and you purchased it in the United States, you should fill out the enclosed warranty registration card and return it to Cary Audio Design within 15 days of your purchase. Cary Audio Design also suggests that you keep your original packing cartons in case you ever need to ship the unit when moving to a new home. Warranty restrictions apply. Consult the warranty section of this manual for details. Please be certain to keep a copy of the original sales receipt from your Authorized Cary Audio Design dealer to validate the warranty if ever needed.

FORMAT DESCRIPTIONS



DTS was introduced in 1994 to provide 5.1 Channels of discrete digital audio into home theater systems. DTS brings you premium quality discrete multi-channel digital sound to both movies and music. DTS is a multi-channel sound system designed to create full range digital sound reproduction. The no compromise DTS digital process sets the standard of quality for cinema sound by delivering an exact copy of the studio master recordings to neighborhood and home theaters. Now, every moviegoer can hear the sound exactly as the moviemaker intended. DTS can be enjoyed in the home for either movies or music on DVD'S, LD'S, and CD'S. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

WELCOME



The advantages of discrete multi-channel systems over matrix are well known. But even in homes equipped for discrete multi-channel, there remains a need for high-quality matrix decoding. This is because of the large library of matrix surround motion pictures available on disc, VHS Hi Fi tape, and analog Stereo television broadcasts. The typical matrix decoder of today derives a center channel and a mono surround channel from two-channel matrix stereo material. It is better than a simple matrix in that it includes steering logic to improve separation, but because of its mono, band-limited surround it can be disappointing to users accustomed to discrete multi-channel sound.

Neo:6 offers several important improvements: Neo:6 provides up to six full-band channels of matrix decoding from stereo matrix material. Users with 6.1 and 5.1 systems will derive six and five separate channels, respectively, corresponding to the standard home-theater speaker layouts. Neo:6 technology allows various sound elements within a channel or channels to be steered separately, and in a way which follows naturally from the original presentation. Neo:6 offers a music mode to expand stereo or matrix recordings into the five or six channel layout, in a way which does not diminish the subtlety and integrity of the original stereo recording.



DTS-ES Extended Surround is a new multi-channel digital signal format developed by Digital Theater Systems Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES Extended Surround greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999. In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES Extended Surround also offers the SB (Surround Back) channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal recording methods, as DTS-ES Discrete 6.1 and DTS-ES Matrix 6.1. "DTS", "DTS-ES Extended Surround" and "Neo:6 are trademarks of Digital Theater Systems, Inc."



The stereo CD is a 16-bit medium with sampling at 44.1kHz. Professional audio has been 20- or 24-bit for some time, and there is increasing interest in higher sampling rates both for recording and for delivery into the home. Greater bit depths provide extended dynamic range. Higher sampling rates allow wider frequency response and the use of anti-alias and reconstruction filters with more favorable aural characteristics. DTS 96/24 allows for 5.1 channel sound tracks to be encoded at a rate of 96kHz/24bits on DVD-Video titles. When DVD-video appeared, it became possible to deliver 24-bit, 96 kHz audio into the home, but only in two channels, and with serious limitations on picture. This capability has had little use. DVD-audio allows 96/24 in six channels, but a new player is needed, and only analog outputs are provided, necessitating the use of the D/A converters and the analog electronics provided in the player.

WELCOME

DTS 96/24 offers the following:

1. Sound quality transparent to the original 96/24 master.
2. Full backward compatibility with all existing decoders. (Existing decoders will output a 48 kHz signal)
3. No new player required: DTS 96/24 can be carried on DVD-video, or in the video zone of DVD-audio, accessible to all DVD players.
4. 96/24 5.1 channel sound with full-quality full-motion video, for music programs and motion picture soundtracks on DVD-video.



Dolby Digital identifies the use of Dolby Digital audio coding for such consumer formats as DVD and DTV. As with film sound, Dolby Digital can provide up to five full-range channels for left, center, and right screen channels, independent left and right surround channels, and a sixth (".1") channel for low-frequency effects.

Dolby Surround Pro Logic II is an improved matrix decoding technology that provides better spatiality and directionality on Dolby Surround program material. It provides a convincing three-dimensional sound field on conventional stereo music recordings. While conventional surround programming is fully compatible with Dolby Surround Pro Logic II decoders, soundtracks will be able to be encoded specifically to take full advantage of Pro Logic II playback, including separate left and right surround channels. (Such material is also compatible with conventional Pro Logic decoders.)

Dolby Digital EX creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best results, Dolby Digital EX should be used with movies soundtracks recorded with Dolby Digital Surround EX.

About Dolby Pro Logic IIx

Dolby Pro Logic IIx is fully compatible with Dolby Surround Pro Logic technology and can optimally decode the thousands of commercially available Dolby Surround encoded video cassettes and television programs with enhanced depth and spatiality. It can also process any high-quality stereo or Advanced Resolution 5.1 channel music content into a seamless 6.1 or 7.1 channel listening experience.

Dolby Pro Logic IIx technology delivers a natural and immersing 7.1-channel listening experience to the home theater environment. A product of Dolby's expertise in surround sound and matrix decoding technologies, Dolby Pro Logic IIx is a complete surround sound solution that maximizes the entertainment experience from stereo as well as 5.1 channel encoded sources.

The Cinema 11 was manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

**All trademarks belong to their original owners.*

SPECIFICATIONS

The Cinema 11 is designed for long term stability in virtually any home operating situation. However, if the unit is operated outside the parameters outlined in this owner's manual, damage may result. Please read this manual carefully before putting your new Cinema 11 processor into operation.

The following section describes the Cinema 11's basic specifications. The specifications are subject to change without notice or obligation.

AUDIO INPUTS / AUDIO OUTPUTS

Audio Inputs	7 - Stereo Pairs with RCA connectors 1 - XLR pair 1 - 7.1 channel analog input with RCA connectors
Digital Audio Inputs	7 - Coaxial (RCA) for the seven single ended inputs 7 - Toslink for the seven single ended inputs 1 - XLR for the balanced input
Sample Rates	44.1, 48, 88.2, 96 or 192kHz
Accepts	16-24 bits PCM audio, Dolby Digital, dts and dts-ES discrete data formats
Main Audio Outputs	7.1 RCA, L/R, Center, LFE (Subwoofer), Side L/R, Rear L/R 7.1 XLR, L/R, Center, LFE (Subwoofer), Side L/R, Rear L/R
Zone 2 Audio Outputs	1 - RCA stereo pair 1 - Toslink digital

ANALOG AUDIO SECTION

Input Impedance	100 k Ohms
Output Impedance	Main - RCA 330 Main - XLR 660 Zones 2 - 220
Rated Input	2.0 Vrms
Maximum Input	6.0 Vrms
Rated Output (100 k load)	2.0 Vrms
Minimum Load	5k
Maximum Output	RCA - 8.0 Vrms XLR - 16.0 Vrms
Headphone Output	100mW into 32 Ohms at 0.2% THD+N
Volume Control Range	Main - -90.0 dB to +15.5 dB (1.0 dB increments) Zone 2/Headphone - -90.0 dB to +15.5 dB (1.0 dB increments)

SPECIFICATIONS

.....
Channel Separation 89 dB (1 kHz)
.....

.....
Total Crosstalk b/t Inputs 89 dB (1 kHz)
.....

.....
XLR Pin Configuration Pin 1: Ground
Pin 2: Positive
Pin 3: Negative
.....

DIGITAL AUDIO

All digital audio inputs are to S/PDIF electrical (75 Ohms, 0.5 V p-p), S/P DIF optical (Toslink), or AES/EBU (110 Ohms, 0.5 V p-p) standards, 44.1kHz to 192kHz regardless of input.

.....
Analog to Digital Converters Burr-Brown PCM 1802
.....

.....
Input Receiver Cirrus CS 8416
.....

.....
Processor 32 Bit Audio DSP at 516 MIPS
.....

.....
Digital to Analog Converters Burr-Brown PCM 1796
.....

MAIN PATH

RCA and XLR Output, 48 kHz Sampling Rate for all Digital Signal Paths

Frequency Response and Bandwidth

.....
Analog - Direct Inputs 10 Hz to 20 kHz, 1 Hz to 120 kHz (-3 dB)

Analog - DSP Inputs at 24/96 10 Hz to 20 kHz, 2 Hz to 44 kHz (-3 dB)

Digital Inputs at 24/96 10 Hz to 20 kHz, 1 Hz to 44 kHz (-3 dB)
.....

THD+N (at Rated Input and Output)

Analog - Direct Inputs 0.005% (90 kHz BW)

Analog - DSP Inputs at 24/96 0.003% (AES17 filter)

Digital Inputs at 24/96 0.003% (AES17 filter)
.....

IMD (CCIF at 15 kHz)

Analog - Direct Inputs 0.001%

Analog - DSP Inputs at 24/48 0.001%

Digital Inputs at 24/48 0.001%
.....

S/N Ratio (ref 2.0 Vrms)

Analog - Direct Inputs 108 dB

Analog - DSP Inputs at 24/96 105 dB

Digital Inputs at 24/96 107 dB
.....

IMD (CCIF at 15 kHz)

Analog - Direct Inputs 0.001%

SPECIFICATIONS

Analog - DSP Inputs at 24/48 0.001%
Digital Inputs at 24/48 0.001%

AM Tuner

Frequency Range When 10kHz step: 530kHz to 1,700kHz
When 9kHz step: 531kHz to 1,602kHz
Sensitivity 49 dB typical, 56dB max
S/N Ratio 50 dB typical, 43dB min
Distortion 0.7% typical, 2.0% max
One-Signal Selectivity (10kHz) 24 dB typical, 18dB min

FM Tuner

Frequency Range 87.5MHz to 108MHz
Sensitivity Mono 15.3dBf, (1.6 V/75)
Stereo 37 dBf, (19.5 V/75)
Signal-to-Noise Ratio Mono 80dB (at 65 dBf)
Stereo 76dB (at 85 dBf)
Distortion Mono 0.08% (100 Hz)
0.08% (1 kHz)
0.2% (6 kHz)
Stereo 0.2% (100 Hz)
0.15% (1 kHz)
0.3% (6 kHz)
Capture Ratio 1.0 dB
Alternate Channel Selectivity 65 dB (400 kHz)
Stereo Separation 50 dB (1 kHz)
35 dB (30 Hz to 15 kHz)
Frequency Response 30 Hz to 15 kHz
Image Interference Ratio 50 dB
IF Interference Ratio 80 dB
AM Suppression Ratio 55 dB
Spurious Interference Ratio 70 dB
Antenna Input 75 Ohms unbalanced

ZONE 2 PATHS

Frequency Response/Bandwidth 20 Hz to 20 kHz, 3 Hz to 140 kHz (+0, -3 dB)
THD+N (at Rated Input and Output) 0.06% (90 kHz BW)
IMD (CCIF at 15 kHz) 0.06%
S/N Ratio (ref 2.0 Vrms) 97 dB

CONTROL

RS-232 Interface

Connection DB-9F, straight-wired
Pinout (Statement DI side) Pin 2: Tx, Pin 3: Rx, Pin 5: Ground

SPECIFICATIONS

Baud Rate	9600
Configuration	8 data bits, 1 stop bit, no parity bits, flow control (RTS, CTS, NONE)

Trigger Outputs

Polarity	3.5 mm mono (tip positive), sleeve negative
Maximum Current at 12 VDC	150 mA (Triggers 1,2), 200 mA (Trigger 3)
Sequential Delay	100 ms

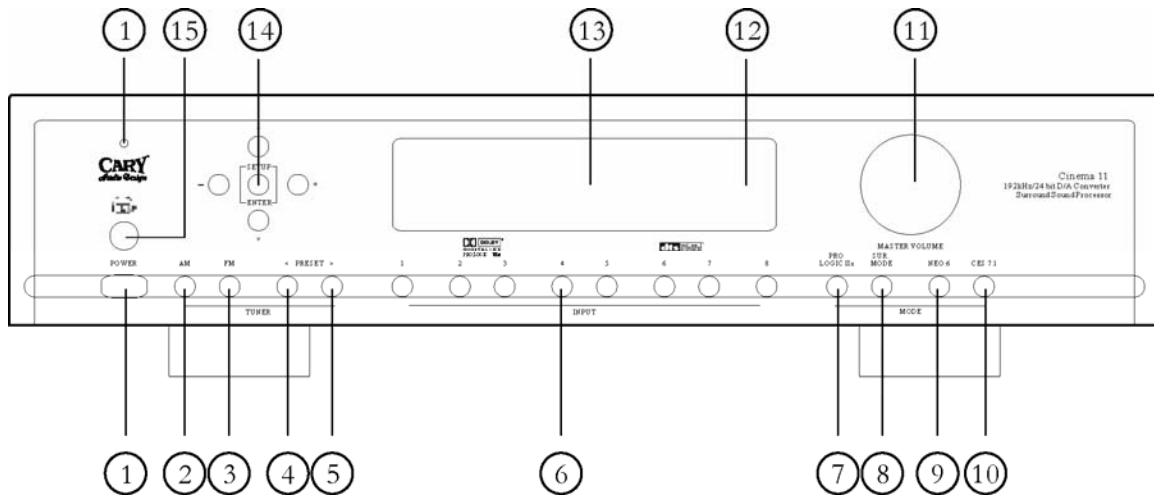
POWER REQUIREMENTS

Power Requirements	117VAC or 234VAC 50-60Hz
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Power Consumption	Maximum 50 W
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CONTROLS AND DISPLAYS

FRONT PANEL



1. POWER

- Press once to turn the power ON.
- Press again to turn the power OFF. The Cinema 11 will enter STANDBY and the blue POWER LED will light.

2. BAND (AM)

- Press this button to select the AM frequency band reception.

3. BAND (FM)

- Press this button to select the FM frequency band reception.

4. PRESET

- Press this button to preset and recall desired broadcasting stations.

5. PRESET

- Press this button to preset and recall desired broadcasting stations.

6. INPUT SELECTOR

- Press one of these buttons to select the Audio input source.

7. PRO LOGIC IIx

- Press this button to select either the Pro Logic II decoding or Pro Logic IIx decoding

8. SUR. MODE

- Press this button to select the surround sound mode as a part of Dolby Digital or DTS decoding; music or movie selections.

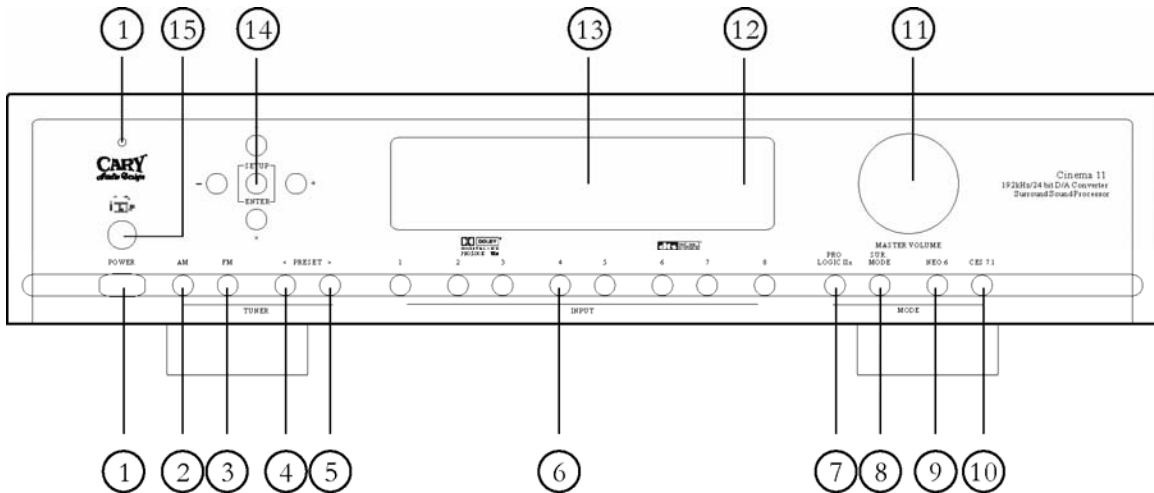
9. NEO:6

- Press this button to turn the NEO:6 mode ON or OFF.

10. CES 7.1

- Press this button to select DOLBY EX AUTO, DOLBY EX ON, or DOLBY EX OFF mode.

CONTROLS AND DISPLAYS



11. MASTER VOLUME KNOB

- Use this knob to adjust the overall sound level.

12. INFRARED RECEIVING SENSOR WINDOW

- This window receives infrared signals from the remote control.

13. ALPHANUMERIC DISPLAY

- This twenty-character display provides a wide range of information concerning the operation of the Cinema 11.

14. NAVIGATION / ENTER

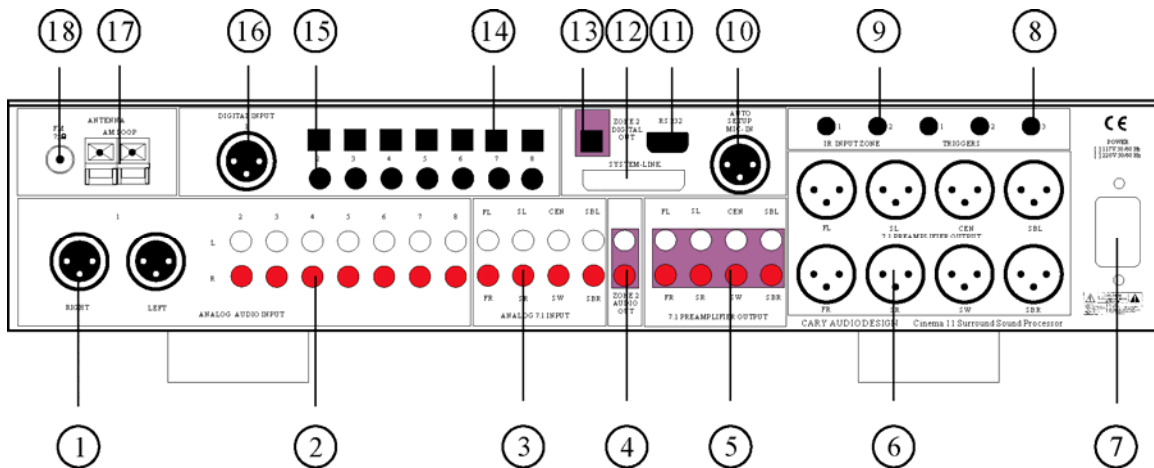
- Use the four navigation buttons to move through menu options shown on the Cinema 11 display. Use the ENTER button to confirm the selections made in the menus.

15. HEADPHONE JACK

- Use for Dolby Headphone playback of movies or personal listening to the AM/FM radio section.

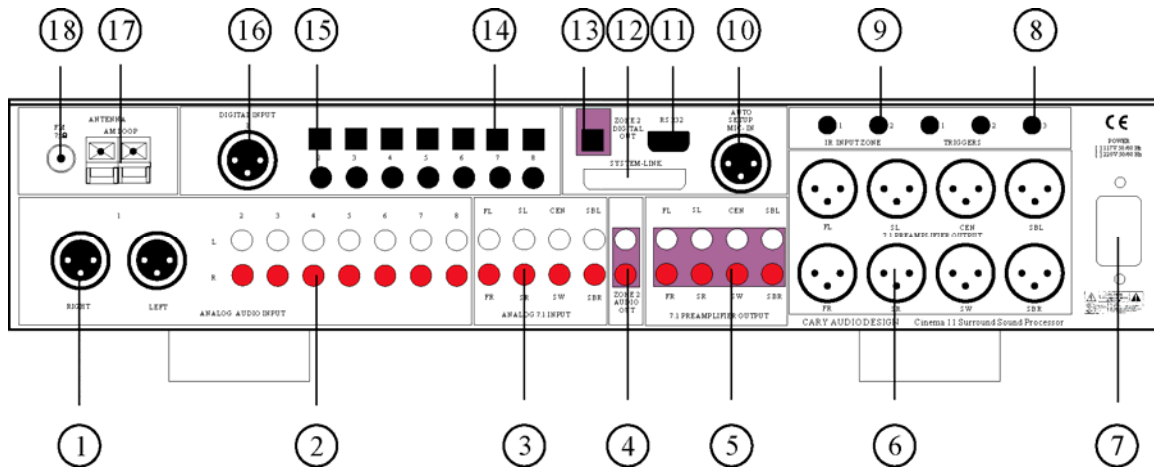
CONTROLS AND DISPLAYS

REAR PANEL



- 1. ANALOG AUDIO IN (INPUT 1) XLR (L + R)**
 - Use these jacks for connection to balanced CD or DVD player analog output connections.
- 2. ANALOG AUDIO IN (INPUTS 2 THROUGH 8) RCA**
 - Use these jacks for connection to CD, DVD, TV, or VCR input options.
- 3. ANALOG AUDIO 7.1 INPUT**
 - By connecting a DVD audio player, SACD multi channel player, or other component that has a multi-channel output, you can playback the analog audio with 5.1 channel or 7.1 channel outputs.
- 4. 2ND ZONE ANALOG AUDIO OUT**
 - These jacks supply the analog stereo audio outputs to an external audio amplifier used to power the speakers in the remote zone.
- 5. 7.1 PREAMPLIFIER OUTPUTS**
 - Use these jacks to connect to the main five or seven channel power amplifiers.
- 6. 7.1 PREAMPLIFIER OUTPUTS XLR**
 - Use these jacks to connect to the main five or seven channel power amplifiers.
- 7. AC INLET CONNECTOR**
 - Plug the power cord into this AC inlet and then into the power outlet on the wall.
- 8. DC TRIGGER OUTPUT TERMINALS**
 - Connect devices that need to be triggered by DC + 12V. (Screen, curtains, lights, etc.)
- 9. IR INPUT**
 - Use the 1 and zone 2 Ext remote jacks to connect external IR sensors. When the unit is installed where it is not otherwise visible to the remote, connect an optional, external sensor and the 1 (Main) jack will be activated. The Cinema 11 should be used for connections to the power amplifiers for the main room speaker. The device connected to the zone trigger will only be activated when the Multi-Zone system is turned on. Connect it to the amplifier used to power the speakers in the second zone (Zone 2).

CONTROLS AND DISPLAYS



10. AUTO SETUP MIC-IN

- Use to connect the supplied microphone for Auto Setup and Auto Room EQ functions to work.

11. RS-232 PORT

- The RS-232 port is used in conjunction with an external controller to control the operation of the Cinema 11 by using an external device. (*custom installation use only*)

12. SYSTEM-LINK PORT

- Use this port for upgrade use only. (*reserved for future use*)

13. ZONE 2 DIGITAL AUDIO OUT (TOSLINK OPTICAL)

- These jacks supply the digital audio outputs to an external surround sound processor used to power the speakers in the remote zone.

14. DIGITAL INPUT (INPUTS 2 THROUGH 8) TOSLINK OPTICAL

- The digital inputs accept digital audio signal from a compact disc, DVD or other digital source component.

15. DIGITAL INPUT (INPUTS 2 THROUGH 8) RCA COAXIAL

- The digital inputs accept digital audio signal from a compact disc, DVD or other digital source component.

16. DIGITAL INPUT (INPUT 1) XLR

- This balanced digital input accepts digital audio signals from a compact disc, DVD or other balanced digital source component.

17. AM ANTENNA TERMINALS

- Use to connect indoor or outdoor antennas for radio broadcasts.

18. FM ANTENNA TERMINALS

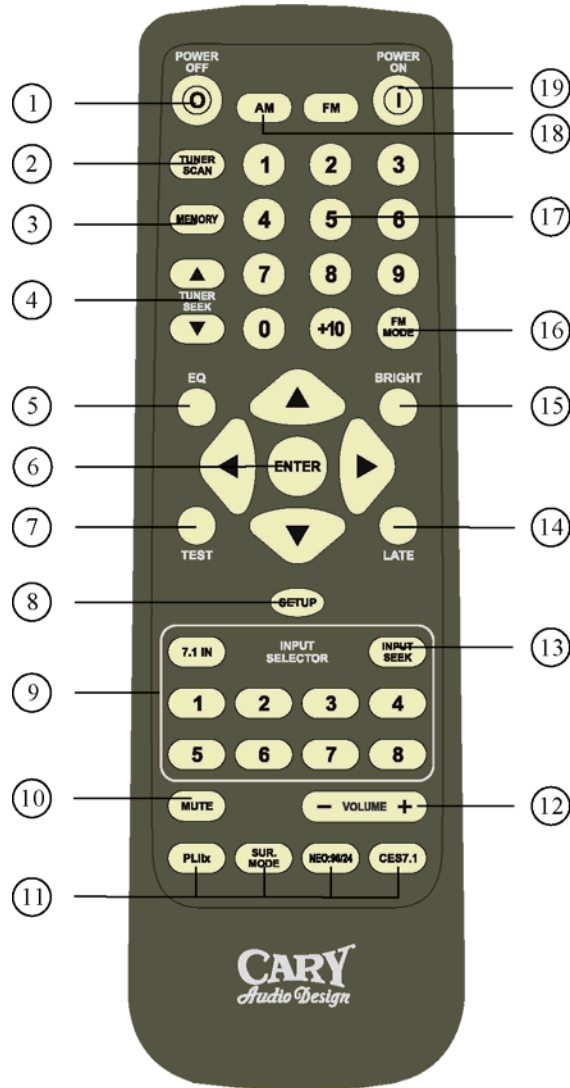
- Use to connect indoor or outdoor antennas for radio broadcasts.

CONTROLS AND DISPLAYS

REMOTE CONTROL

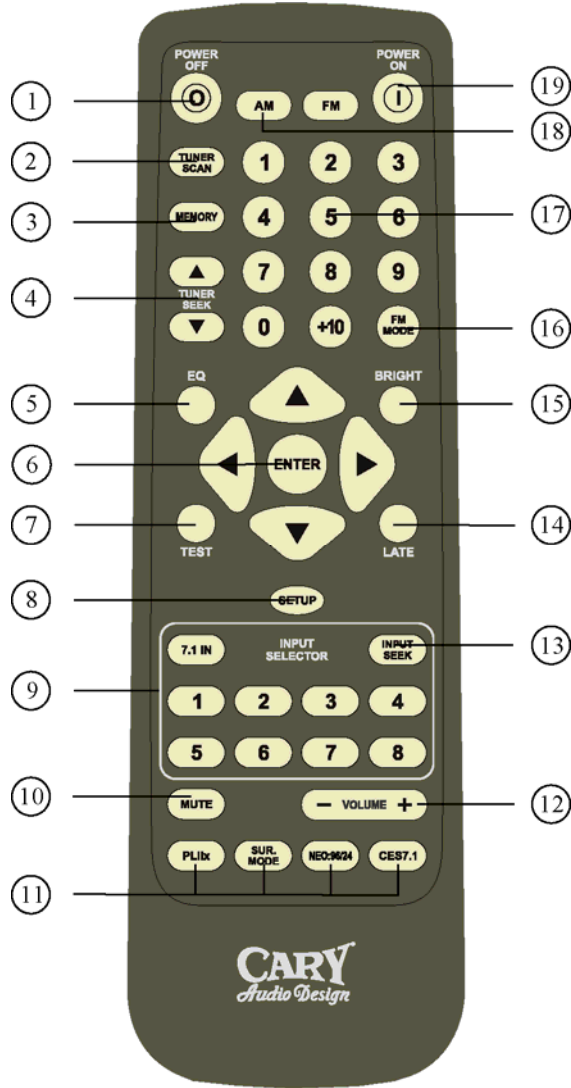
This section explains how best to use the remote control to set up and operate the Cinema 11.

1. **POWER OFF:** Press this button to turn the Cinema 11 OFF.
2. **TUNER SCAN:** If INPUT is set to AM or FM, use this button to scan frequencies that have been PRESET. The scan will cycle through the stations, starting with the current station, one after another with 5 second delays.
3. **MEMORY:** Press this button to store the current broadcast band/reception frequency into memory.
4. **TUNER SEEK (UP/DOWN):** Up: Performs tuning in ascending frequency order. Down: Performs tuning in descending frequency order.
5. **ROOM EQ:** Press this button to turn the Room Equalization ON or OFF.
6. **NAVIGATION/ENTER:** Use the four NAVIGATION buttons to move through menu options shown on the Cinema 11 display. Press the ENTER button in the center to confirm selections made in the menus.
7. **TEST:** Press this button to start an AUTO SOUND SETUP test on your system.
8. **SETUP:** Calls up the Setup Menu on the Cinema 11 display, if active.
9. **INPUT SELECTOR:** Use these buttons to select the desired source for your Cinema 11.
10. **MUTE:** Press this button to mute the main volume of the Cinema 11.
11. **SURROUND/DATA FORMAT:** Press the PLIIx, SUR. MODE, NEO:96/24, or CES 7.1 button once to select a surround format. Press the same button again to cycle through the various processing modes available for the selected format.
12. **VOLUME:** Press this button to adjust the volume up and down from -90dB to +15dB.
13. **INPUT SEEK:** Press this button to auto select the next active audio input source.



CONTROLS AND DISPLAYS

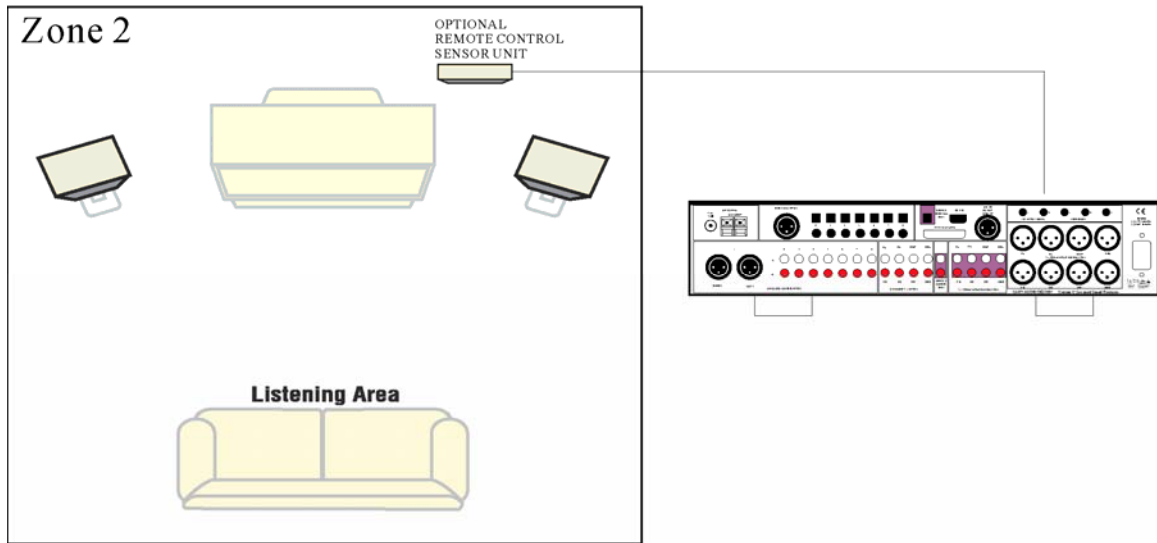
14. **LATE (for Dolby Digital only):** Cycles through the various night dynamic range compression modes. (Full, Half, No compression)
15. **BRIGHT:** Press this button to change the brightness of the display. (Off, Low, Medium, High)
16. **FM MODE:** Press this button to select the audio stereo mode or monaural mode when listening to FM broadcasts. (mono/auto stereo)
17. **STATION CALL:** These buttons are used to preset the desired broadcasting stations.
18. **BAND (FM/AM):** Press this button to switch between FM and AM frequency band reception.
19. **POWER ON:** Press this button to turn the Cinema 11 ON.



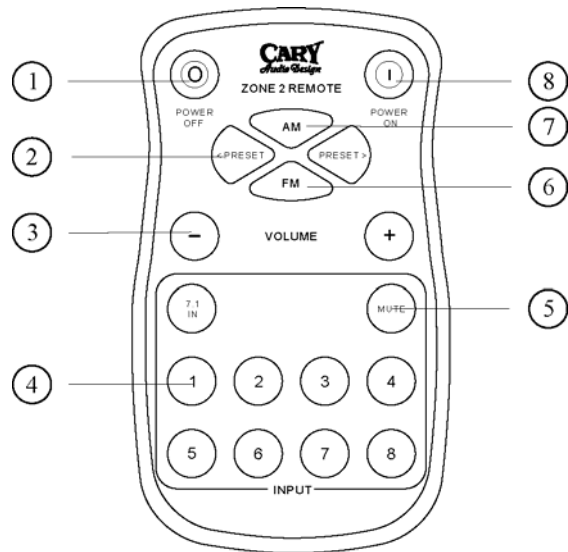
CONTROLS AND DISPLAYS

ZONE 2 REMOTE CONTROL

This section explains how to use the Zone 2 remote control in a remote room in your house. (2nd Zone room)



1. **ZONE 2 POWER OFF:** Press this button to turn the Cinema 11 OFF.
2. **ZONE 2 PRESET:** These buttons are used to preset desired broadcasting stations.
3. **ZONE 2 VOLUME:** Press this button to adjust the Zone 2 volume up and down from -90dB to +15dB.
4. **ZONE 2 INPUT SELECTOR:** Use these buttons to select the Zone 2 desired source for your Cinema 11.
5. **ZONE 2 MUTE:** Press this button to mute the Zone 2 volume.
6. **BAND (FM):** Press this button to select the FM frequency band reception in Zone 2.
7. **BAND (AM):** Press this button to select the AM frequency band reception in Zone 2.
8. **POWER ON:** Press this button to turn the Cinema 11 ON.



INSTALLATION

LOCATION

To assure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface capable of supporting its weight. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the unit and any additional items in the equipment rack, or on the shelf.

When positioning the Cinema 11, make certain that it has adequate ventilation on all sides, as well as on the top and bottom. In particular, it is a good idea to provide at least two or three inches of room above the unit for air circulation.

DO NOT place CDs, DVDs, videotapes, owner's manuals, or other paper on top of, or beneath, the unit, or in-between multiple amplifiers in a stack. This will block airflow, causing heat build-up, and may create a possible fire hazard.

If the unit is to be enclosed in a cabinet or rack, make certain there is adequate air circulation. Sufficient ventilation should be provided so that hot air may exit, and cool air may enter the cabinet. In some instances, a small cooling fan may be required to insure adequate airflow through the cabinet. If you are in doubt about ventilation requirements for your specific installation, Please contact us.

Avoid installation in humid locations, extremely hot or cold locations, or in areas that are exposed to direct sunlight, moisture or space heating equipment.

GETTING STARTED

Before proceeding, please observe the following precautions when connecting devices to your new Cinema 11.

Do not plug the power cord into your Cinema 11 until all other connections have been made.

Always refer to the instructions that came with the component that you are connecting for specific procedures, warnings and options.

For all analog connections, the red input jacks (R) are used for the right channel, and the white input jacks (L) are used for the left channel. (RCA connectors)

Make sure to insert all plugs and connectors securely.

Improper connections can result in noise, poor performance, or damage to the equipment.

Do not bundle audio or video connection cables with power cords and speaker cables. Doing so may adversely affect the picture and sound quality. For example, run all the power cords down one side of the cabinet, all the signal cords down the other side, and the speaker wires down the center.

When connecting devices to the digital inputs and outputs, you may also consider hooking up the analog connections to and from the components to insure that all signals can be employed by the preamp/processor.

When using the TOSLINK optical input or output jacks, remove the protective cap and keep it in a safe place. When these jacks are not in use the protective cap should be replaced.

INSTALLATION

When using a TOSLINK optical input or output jack, always use a high-quality optical fiber cable.

IMPORTANT: We strongly recommend that before you connect any loudspeakers to your amplifiers, you complete all needed connections and set up procedures to your Cinema 11 as outlined below. This will reduce the chance that a wrong connection or other error will produce a high volume audio output that might damage your speakers or other components.

Given the wide variety of components that can be connected to your Cinema 11, there are numerous ways in which your system can be assembled. To help you with this task, use the chart at the end of this manual to record the components connected to your unit, as well as which type of input (analog, coaxial, Toslink, etc) is used. Keep this chart for future reference.

There are many possible ways to connect a particular device. Use the diagrams on the following pages as a guideline. The information in this section contains some of the more common situations you might encounter in your system.

Always consult the owner's manuals that come with the components you are connecting to the Cinema 11 for more information on the source component's connections.

CONNECTING A MULTI CHANNEL POWER AMPLIFIER

Before attempting to plug any jacks into any power amplifier, verify that the power amplifier is turned off and or disconnected from the AC mains. Failure to do so can potentially result in severe damage to your amplifier or loudspeakers.

Use the audio jacks labeled OUTPUT from the Cinema 11 to an external power amplifier such as the Cary Audio Cinema 7B Power Amplifier. The Cinema 11 can output up to 7.1 channels of sound depending on source components and source material.

The output jacks supplied by the Cinema 11 are: Left Front, Center, Right Front, Left Surround, Right Surround, Left Surround Back, Right Surround Back, and Subwoofer. Be sure to verify that the correct outputs are connected to the appropriate input jacks (Left Front to Left Front, Right Surround Back to Right Surround Back, etc.)

When a powered subwoofer is used, connect the Subwoofer output jack to the Line Input jack on your subwoofer and follow any specific connection and or configuration, instructions supplied with the subwoofer. If your subwoofer is a passive speaker, connect the subwoofer output jack on the Cinema 11 to the input of the amplifier used to power the subwoofer, and then connect the subwoofer speaker itself to the subwoofers' power amplifier.

SECOND ZONE (ZONE 2)

Use the L and R channel ZONE 2 AUDIO OUTPUT audio jacks to connect the Cinema 11 to the audio inputs of an external amplifier or other audio component in a second zone. The signal present will reflect the input selection of the Cinema 11. This may be adjusted using the Zone Menu or the ZONE button on the remote control. It may be seen using the VFD MENU.

INSTALLATION

POWER CONTROL CONNECTIONS

The TRIGGER jacks are used to remotely turn-on other devices in your system when the Cinema 11 is ON. Power is applied to the MAIN Trigger Output jack when the Cinema 11 is turned on from the Standby Mode.

We recommend that this jack be used to turn on a power amplifier such as the Cary Audio Cinema 5 or Cinema 7B, but it may also be used to activate compatible products such as projection screens, lights or blinds.

Connect a 3.5mm mono mini-plug between the Trigger 1 jack on the rear panel of the Cinema 11 and the low voltage trigger jack of the device to be controlled to enable remote turn-on of that component. The Trigger 2 or 3 jack is activated when the Zone 2 Multi-room system is turned on and should be used for control of amplifiers used to power the speakers installed in the remote zone. It will remain activated as long as the Zone 2 Multi-room system is on, even when the Cinema 11 is in the Standby mode for the main room.

REMOTE CONTROL

The IR INPUT 1 jacks allow you to extend the on-board remote control sensor on the Cinema 11's rear panel so that you may continue to control the Cinema 11 even when it is installed behind solid or smoked cabinet doors or when the front panel sensor is otherwise not visible to the remote control.

To extend the remote sensor connect an optional remote sensor to the IR INPUT 1 jack. The IR INPUT 2 jack is provided to enable remote control of the Cinema 11's multi-zone system through the use of an optional remote sensor in the second zone. Connect the sensor to the IR INPUT 2 jack using a 3.5mm mono mini-plug and the wiring specified by the sensor's manufacturer. (many companies offer external IR receivers for this purpose)

POWER CONNECTION

Insert the supplied power cord into the AC input on the rear panel of the processor. Do not use a power cord other than the one supplied with the Cinema 11. It is designed for use with the Cinema 11 and should not be used with any other device.

CAUTION: Before you plug the power cord into an AC wall outlet, ensure all connections to the processor have been made correctly.

WARNING: Never disconnect the power cord from the Cinema 11 while the other end is plugged into an AC outlet. Doing so may cause an electric shock. Always connect the power by plugging into the AC outlet last and disconnect by unplugging from the AC outlet first.

AUTO SOUND SETUP

The AUTO SOUND SETUP feature of the Cinema 11 measures sound characteristics of the speaker system and room where the surround sound processor is used and automatically optimizes settings.

The room EQ technology adopted by the Cinema 11 provides the best listening environment for multiple listeners. To do this, the AUTO SOUND SETUP feature measures a test tone emitted by each channel in a maximum of 6 separate listening positions (to average the overall area sound field), using the supplied microphone. The measurement results are analyzed using an original algorithm and environmental settings are made to improve the sound characteristics of the listening area.

To set up the speaker system (i.e., Adjusting speaker distance, etc.) without using the AUTO SOUND SETUP feature, see the MANUAL SOUND SETUP in the following section of this manual.

HOW TO PERFORM AUTO SOUND SETUP

During measurement, the VFD menu displays the condition, so make sure the power to the power amplifier is ON.

1. Connect the supplied microphone to the MIC jack on the Cinema 11.
2. Set the microphone in the listening position at head height.

Notes:

- For the first measurement, set the microphone in the main listening position.
- Use a stand or tripod to position the microphone at ear height in the listening position.
- Remove any obstructions between the speakers and microphone.
- To use a powered subwoofer, set the volume to the middle point and set the crossover frequency to the highest point.
- During measurement, step away from the microphone and operate the Cinema 11 via the remote handset from a position that is out of the path of the speaker sound.
- **WARNING:** The test tone output from the speakers during measurement is very loud. Keep neighbors and children in mind when running your tests. This test sound is similar to 'pink' noise with energy in all audible octaves of sound.

3. Press the TEST button on the remote handset.

VFD will display:
Auto Sound Setup?
Press ENTER to start.

4. Press the ENTER button to start measurement.

VFD will display:
Connect Microphone?
Press ENTER to start.

5. **Speaker Check**

During the Speaker Check, the following VFD appears on the display and checks are made to detect the test sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

AUTO SOUND SETUP

Speaker check
FL.....Yes (Yes/No)
CENYes (Yes/No)
FR.....Yes (Yes/No)
SRYes (Yes/No)
SBR.....Yes (Yes/No)
SBL.....Yes (Yes/No)
SL.....Yes (Yes/No)
SW.....Yes (Yes/No)

Total: 8 speakers
Press ENTER now.

Note: The speaker check measures the state of use of all speakers whether actually used or not. For example, if the CEN speaker is not used, the test tone will require time to go from the FL to the FR, therefore be careful not to unplug the microphone or operate the Cinema 11 during this time.

6. When the speaker check ends, the following VFD appears on the display.

Total: 8 speakers (or however many speakers are connected)
Press ENTER now

The results of the speaker check will be displayed. The front panel shows confirmation of the number of speakers detected. If some speakers are not detected, make sure that they are all connected properly. After confirming the total number of speakers, press the ENTER button.

7. **Set Distance**

During Set Distance testing, the following VFD appears on the display and checks are made to detect dart sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

Set Distance
FL.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
CEN0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
FR.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
SR0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
SBR.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
SBL.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
SL.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)
SW.....0.0ft 0.00m (0.0ft to 100ft/ 0.00m to 30.3m)

8. **Set Balance**

During Set Balance testing, the following VFD appears on the display and checks are made to detect the test sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

AUTO SOUND SETUP

Set Balance		
FL.....	0.0dB	-15.0dB to + 15.0dB
CEN.....	0.0dB	-15.0dB to + 15.0dB
FR.....	0.0dB	-15.0dB to + 15.0dB
SR.....	0.0dB	-15.0dB to + 15.0dB
SBR.....	0.0dB	-15.0dB to + 15.0dB
SBL.....	0.0dB	-15.0dB to + 15.0dB
SL.....	0.0dB	-15.0dB to + 15.0dB
SW.....	0.0dB	-15.0dB to + 15.0dB

9. Set Room EQ

During Set Room EQ testing, the following VFD appears on the display and checks are made to detect the test sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

Set Room EQ		
FL.....	Set / N/A	-15.0dB to + 15.0dB
CEN.....	Set / N/A	-15.0dB to + 15.0dB
FR.....	Set / N/A	-15.0dB to + 15.0dB
SR.....	Set / N/A	-15.0dB to + 15.0dB
SBR.....	Set / N/A	-15.0dB to + 15.0dB
SBL.....	Set / N/A	-15.0dB to + 15.0dB
SL.....	Set / N/A	-15.0dB to + 15.0dB
SW.....	Set / N/A	-15.0dB to + 15.0dB

10. Set Crossover Points

During Set Crossover Points testing, the following VFD appears on the display and checks are made to detect the test sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

Set Crossover Points		
FL..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
CEN..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
FR..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
SR..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
SBR..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
SBL..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
SL..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	
SW..... Full	Full, 40Hz, 40Hz, 60Hz, 70Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 130Hz, 150Hz	

11. Set Speaker Phase

During Set Speaker Phase testing, the following VFD appears on the display and checks are made to detect the test sound in the listening room, whether there are speakers connected to each channel or not and the polarity of the speakers as they are connected.

Set Speaker Phase		
FL.....	Inphase	Inphase / Outphase
CEN.....	Inphase	Inphase / Outphase
FR.....	Inphase	Inphase / Outphase
SR.....	Inphase	Inphase / Outphase
SBR.....	Inphase	Inphase / Outphase
SBL.....	Inphase	Inphase / Outphase

AUTO SOUND SETUP

SL..... Inphase Inphase / Outphase
SW..... Inphase Inphase / Outphase

Storing Measurement Results in SETUP MENU

If the Cinema 11 senses that a speaker is out of phase, the VFD will show the following sentence only and won't continue..

- Correct out phase SPK
- Run Auto Setup again (press Enter)

If the Cinema 11 senses all speakers are In Phase, it will go to the next step.

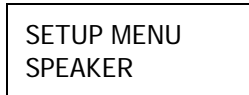
- Press ENTER restore to Setup Menu

Press the ENTER button to store all parameters including the equalizer parameters in the SETUP MENU. If you do not want to store the calculation results in the SETUP MENU, press the TEST button to exit.

MANUAL SOUND SETUP

The first step in configuring the Cinema 11 to operate with your speaker system is to set the type, number and crossover frequencies of your particular loudspeakers. You make these selections using the SPEAKER SETUP menu shown below.

NOTE: The following selected menus appear on the Cinema 11 display.



1. Press the SETUP button to enter the SETUP menu.
The SETUP MENU/SPEAKER appears.
2. Press ENTER to enter the SPEAKER SETUP menu.
The SPEAKER/Set Speaker Config appears.
3. Press ENTER to enter the Set Speaker Config menu.
The Set Speaker Config / FL Yes appears.
4. Use the ◀ and ▶ buttons to adjust the FL Speaker Configuration. (Front Left)
5. Use the ▲ and ▼ buttons to cycle through the speaker options for the FRONT L speaker. The following options are available for each group of speakers:
 - For FL (Front Left) you can select Yes or No. Select No when the speaker setup does not include front L speaker. The Cinema 11 then redirects front L channel signals to the center output connectors.
 - For CEN (Center) you can select Yes or No. Select No when the speaker setup does not include center speaker. The Cinema 11 then redirects center channel signals to the front L/R output connectors.
 - For FR (Front Right) you can select Yes or No. Select No when the speaker setup does not include front R speaker. The Cinema 11 then redirects front R channel signals to the center output connectors.
 - For SR (Surround Right) you can select Yes or No. Select No when the speaker setup does not include side R speaker. The Cinema 11 then redirects side R channel signals to the front R output connectors.
 - For SBR (Surround Back Right) you can select Yes or No. Select No when the speaker setup does not include surround rear R speaker. The Cinema 11 then redirects surround rear R channel signals to the side R output connectors.
 - For SBL (Surround Back Left) you can select Yes or No. Select No when the speaker setup does not include surround rear L speaker. The Cinema 11 then redirects surround rear L channel signals to the side L output connectors.
 - For SL (Surround Left) you can select Yes or No. Select No when the speaker setup does not include side L speaker. The Cinema 11 then redirects side L channel signals to the front L output connectors.
 - For SW (Subwoofer) you can select Yes or No. Select No when the speaker setup does not include SW speaker. The Cinema 11 then redirects SW channel signals to the front L/R output connectors.
6. Press the ▼ button to select BACK and press ENTER to return to the SETUP MENU, or press the SETUP button to exit to SETUP MENU.

MANUAL SOUND SETUP

SET DISTANCE

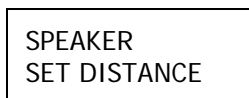
The DISTANCE SETUP is used to enter Speaker Distances (for proper sound delay).

Setting the Speaker Distance Delays

Setting the speaker delay is crucial to the proper performance of any surround decoder component like the Cinema 11. Your home theater system will not perform properly if this process is not completed.

To accomplish this process you will need a tape measure or other means of determining the distance of each speaker from the primary listening position. Measure the distance from the main listening point to each speaker. Front R, Side R, Surr BR, Surr BL, Side L and Subwoofer speaker. Write the measured distances down before beginning the Delay Setup.

NOTE: The following selected menus appear on the Cinema 11 Display.



To set the speaker distance delays for your speakers:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU/SPEAKER appears.
2. Press the ENTER button to enter the SPEAKER setup menu.
3. Press the ▼ button until SET DISTANCE is selected.
The SPEAKER / Set Distance menu appears.
4. Press the ENTER button to enter the SET DISTANCE setup menu.
5. Use the ◀ and ▶ buttons to adjust the FRONT L distance delays by setting the measured distance.
6. To set the distance for each speakers in your system, you will need to measure, as precisely as possible, the distances from your chosen listening/viewing position to the various loudspeakers in your system.

Set the distance for the Front L speakers to the nearest foot/meter. Rounding up is OK.

Distances can be set in the following increments:

- Feet 0 - 100 ft in 1 foot increments. Meters 0 to 30.3 meters in 0.3 meter increments.
- You can scroll in either direction using the ◀ and ▶ buttons.

7. Press the ▼ button when you have made a selection.
Repeat steps 6 for the Center, Front R, Side R, Surr BR, Surr BL, Side L and Subwoofer speaker.
8. Press the ▼ button to select BACK and press the ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

MANUAL SOUND SETUP

SET BALANCE

This step adjusts the output level of each channel so that they are properly matched. This must be done to insure a correct presentation of multi-channel sound sources. The adjustment must be as precise as possible, and is almost impossible to accomplish by ear. Therefore, we recommend that you use a Sound Level Meter. This device insures that all loudspeaker levels are precisely matched and set accurately. (The Radio Shack Analog Sound level meter is inexpensive and suitable for this task.)

NOTE: If for any reason you are not sure that you can accomplish this calibration task or have any doubts as to how it should be done, please contact Cary Audio's technical support group BEFORE attempting this process (919-355-0010), or use Auto Setup.

Set the meter to Slow response, "C" weighting, and to the 70 dB sensitivity scale. Position the meter at the approximate center of your listening position, at average ear height [approximately 40-46 inches (102-117cm)] with its microphone positioned vertically (pointing at the ceiling). Don't aim the microphone at the speakers, as this will produce inaccurate results. To proceed with the adjustments, you will access the Channel Calibration menu shown below. Set all channels to 75 dB level.

NOTE: The following selected menus appear on the Cinema 11 Display.

SPEAKER
SET BALANCE

To set the channel levels for your system:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU/SPEAKER appears.
2. Press the ENTER button to enter the SPEAKER menu.
3. Press the ▼ button to select SET BALANCE menu.
4. Press the ENTER button to enter the SET BALANCE menu.
The SET BALANCE/TEST MODE.....Off menu appears.

A special test tone will be generated allowing you to measure the output of the speaker that's playing.

5. Press the ▼ button until FL (FRONT LEFT) is selected.
6. Use the ◀ and ▶ buttons to adjust the speaker level.
You can adjust the selected channel level in 0.5dB steps across a range of -15dB to +15dB. The recommended calibration level is 75dB/SPL as displayed on the meter.
7. Press the ▼ button when you have finished making the FRONT LEFT level adjustment.
Repeat steps 5 and 6 until you have completed setting the level for each speaker in your system. Set all the levels to 75dB.

MANUAL SOUND SETUP

8. When you have finished adjusting the level for all the speakers in your system, select BACK to return to SETUP Menu.
9. Select BACK to return to the SETUP MENU, or press the SETUP button to EXIT the SETUP MENU.

To Set Channel Levels Using The Test Tone Function:

1. Select the TEST MODE AUTO in the SET BALANCE menu.
When you select this function, the Cinema 11's Test tone automatically cycle every few seconds through all the speakers connected.

The unit cycles through the speakers in the following sequence:

FRONT LEFT > CENTER > FRONT RIGHT > SURROUND RIGHT > SURROUND BACK RIGHT > SURROUND BACK LEFT > SURROUND LEFT > SUBWOOFER

2. Use the ◀ and ▶ buttons to adjust the speaker level.
You can adjust the selected channel level in 0.5dB steps across a range of -15dB to +15dB. The unit will then resume cycling the Test Tone from speaker to speaker.

NOTE: Use the ◀ and ▶ buttons to adjust the speaker level.

3. Select BACK to return to the SETUP MENU, or press the SETUP button to EXIT the SETUP MENU.

SET CROSSOVER POINTS

The LPF/HPF (Low Pass Filter/High Pass Filter) Crossover menus are used to independently set the internal High Pass filter of the Cinema 11 each of the speakers.

Setting the Speaker Crossover Points

In the Cinema 11, the Crossover Points can be selected in 10Hz increments within a 40Hz to 150Hz or Full range. Select the crossover point closest to the low-frequency rating of the associated speaker. For instance, set to FRONT L/R parameter to the crossover point closest to the low-frequency rating of the front speaker.

Select the subwoofer crossover point equal to the lowest crossover point of the other speakers. In general, low frequencies will be redirected from the speakers with the highest crossover points to the speakers with the lowest crossover points. Low-frequency signals lower than the lowest crossover point will be redirected to the subwoofer.

NOTE: The following selected menus appear on the Cinema 11 Display.

SPEAKER SET CROSSOVER POINTS

MANUAL SOUND SETUP

To set the crossover points for your speakers:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ENTER button to enter the SPEAKER setup menu.
3. Press the ▼ button until SET CROSSOVER POINTS is selected.
The SPEAKER / Set Crossover Points menu appears.
4. Press the ENTER button to enter the SET CROSSOVER POINTS setup menu.
5. Use the ◀ and ▶ buttons to adjust the FL (Front Left) Crossover.
The crossover settings appear as follows as you scroll through them:
From 40 to 150 Hz in 10 Hz steps or FULL range.
6. Press the ▼ button when you have made a selection.
Repeat step 5 for the Center, Front R, Side R, Surr BR, Surr BL, Side L and Subwoofer speaker.
7. When you have finished adjusting the crossover points for all the speakers in your system, select BACK to return to SETUP MENU.
8. Press the ▼ button to select BACK and press the ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

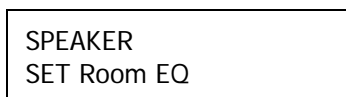
SET ACOUSTIC CALIBRATION ROOM EQ

Acoustic Calibration Equalization is a kind of room equalizer for your speaker. It works by measuring the acoustic characteristics of your room and neutralizing the ambient characteristics that can color the original source material. This provides a 'flat' equalization setting. If you're not satisfied with the automatic adjustment, you can also adjust these settings manually to get a frequency balance that suits your tastes.

Setting the Acoustic Calibration Room EQ manually

If you have already completed automatically setting up your Cinema 11 using Auto Sound SETUP press ENTER to restore to SETUP MENU. If you want to adjust your settings manually, you can set the SET ROOM EQ manually following the directions below.

NOTE: The following selected menus appear on the Cinema 11 Display.



To set the Acoustic Calibration Room EQ manually:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.

MANUAL SOUND SETUP

2. Press the ENTER button to enter the SPEAKER setup menu.
3. Press the ▼ button until SET ROOM EQ is selected.
The SPEAKER/ Set Room EQ menu appears.
4. Press the ENTER button to enter the SET ROOM EQ setup menu.
5. Use the ◀ and ▶ buttons to adjust the FL (Front Left) 80Hz output level.
You can adjust the selected channel level in 0.5 dB steps across a range of -15dB to +15dB.
6. Press the ▼ button when you have made a selection.
Repeat steps 5 for the 80Hz, 250Hz, 800Hz, 2500Hz, 8000Hz, 12500Hz and 16000Hz.

FL.....	80Hz	0/0dB
FL.....	250Hz	0/0dB
FL.....	800Hz	0/0dB
FL.....	2500Hz	0/0dB
FL.....	8000Hz	0/0dB
FL.....	12500Hz	0/0dB
FL.....	16000Hz	0/0dB

7. Press the ▼ button when you have made a selection.
Repeat steps 5 to 6 for the Center, Front R, Side R, Surr BR, Surr BL, Side L and Subwoofer speaker.
8. When you have finished adjusting the Calibration Room EQ for all the speakers in your system, select BACK to return to SETUP MENU.
9. Press the ▼ button to select BACK and press ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

SETUP MENU

Better sounds using SET SPEAKER PHASE

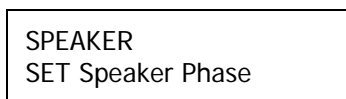
The Cinema 11 's SET SPEAKER PHASE feature uses phase correction measures to make sure your sound source arrives at the listening position in phase, preventing unwanted distortion and/or coloring of the sound.

SET SPEAKER PHASE technology provides coherent sound reproduction through the use of phase matching for an optimal sound image at your listening position.

Setting the speaker phase manually

If you have already completed the Auto Sound SETUP, press ENTER to return to the SETUP MENU. If you want to adjust your settings manually, you can use the SET SPEAKER PHASE menu option, following the directions below.

NOTE: The following selected menus appear on the Cinema 11 Display.



To set the Speaker Phase manually:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ENTER button to enter the SPEAKER setup menu.
3. Press the ▼ button until SET SPEAKER PHASE is selected.
The SPEAKER/Set Speaker Phase menu appears.
4. Press the ENTER button to enter the SET SPEAKER PHASE setup menu.
5. Use the ◀ and ▶ buttons to adjust the phase.
You can adjust each channel's speaker to be in phase or out phase.
6. Press the ▼ button to select BACK and press the ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

INPUT

This menu is for matching the output of connected audio devices and the input jacks of this Surround Sound Processor.

- Change input names
- Set Analog in level
- Set Analog in config

Change Input Names

You can customize the name of the selected input. Custom Input Names can include up to twelve characters. For example: DVD 7 or DVD 8 for Input 2.

SETUP MENU

NOTE: The following selected menus appear on the Cinema 11 Display.



To change input names:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/ INPUT menu appears.
3. Press the ENTER button to enter the CHANGE INPUT NAMES setup menu.
4. Press the ENTER button to enter the 7.1 IN rename menu.
5. Press the ENTER button to start the 7.1 IN rename menu. The cursor automatically appears beneath the first character in the current input name.
6. Use the ▲ and ▼ buttons to select the desired character above the cursor.

0 123456789: ;<=>?@ABCDEFGHIJKLMNPOQRSTUVWXYZ
[\]-_ \ abcdefghijklmnopqrstuvwxyz{|}-_
7. Use the ► arrow button to advance to the next character space. The cursor will automatically wrap to the first character space when the last (twelve) character space is passed.
8. Use the ◀ arrow button to return to the previous character space.
9. Press ENTER to restore the custom input names.
10. Press the ▼ button to select other input names.

7.1 In	7.1 CH IN
INPUT 1	INPUT 1
INPUT 2	INPUT 2
INPUT 3	INPUT 3
INPUT 4	INPUT 4
INPUT 5	INPUT 5
INPUT 6	INPUT 6
INPUT 7	INPUT 7
INPUT 8	INPUT 8
BACK	

11. Press the ▼ button to select BACK and press ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

SETUP MENU

SET ANALOG IN LEVEL SETTINGS

This adjustment can be used to adjust 2-channel analog audio input levels for a selected input. Despite attempts at standardization, analog sources still have a wide range of input levels. To compensate for this, the Cinema 11 allows independent input level adjustment for each of the stereo analog audio input connectors. Input level adjustment is not available for the 7.1 channel analog audio input connector.

NOTE: The following selected menus appear on the Cinema 11 Display.



To set Analog IN Level:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/ INPUT menu appears.
3. Press the ENTER button to enter the CHANGE INPUT NAMES setup menu.
4. Press the ▼ button until SET ANALOG IN LEVEL is selected.
5. Press the ENTER button to enter the INPUT 1 level adjustment menu.
6. Use the ◀ and ▶ buttons to adjust the level of the INPUT 1.
You can adjust the selected channel level in 1.0 dB steps across a range of -18dB to +12dB.
7. Press the ▼ button when you have made a selection.
Repeat steps 6 for the INPUT 2, INPUT 3, INPUT 4, INPUT 5, INPUT 6, INPUT 7 and INPUT 8.
8. Press the ▼ button to select BACK and press the ENTER to return to the SETUP MENU, or press the SETUP button to exit the SETUP MENU.

SET ANALOG IN CONFIG

The Cinema 11 allows analog sources to select bypass mode or DSP mode. When you select the BYPASS mode, the Cinema 11 passes analog input signals directly to the main audio output connectors. When you select DSP mode, the Cinema 11 sends analog input signals through A/D conversion and internal processing before passing them to the main audio output connectors. This allows analog sources to use bass management, speaker crossovers, speaker distance calibration, and Room EQ.

SETUP MENU

To set Analog in Config:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU/SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/ INPUT menu appears.
3. Press the ENTER button to enter the CHANGE INPUT NAMES setup menu.
4. Press the ▼ button until SET ANALOG IN CONFIG is selected.
5. Press the ENTER button to enter the INPUT 1 analog in config menu.
6. Use the ◀ and ▶ buttons to select the mode.
You can select the BYPASS mode or DSP mode.
7. Press the ▼ button when you have made a selection.
Repeat steps 6 for the INPUT 2, INPUT 3, INPUT 4, INPUT 5, INPUT 6, INPUT 7, INPUT 8, 7.1 IN and TUNER.
8. Press the ▼ button to select BACK and press the ENTER button to return to the SET ANALOG IN CONFIG. menu, or press the SETUP button to exit the SETUP MENU.

NOTE: As you can see from these settings, it is possible to use the Cinema 11 as an analog stereo preamp and as a surround sound preamplifier at the same time.

RADIO

The Cinema 11 radio allows the FM tuner section to select frequency ranges for USA/EURO or JAPAN and it can set AM frequencies for USA 10kHz step or to 9kHz step to match the broadcasts of stations outside North America.

- RADIO
- Set FM frequency
- Set AM frequency step

To set FM frequency:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/INPUT menu appears.
3. Press the ▼ button until RADIO is selected.
4. Press the ENTER button to enter the SET FM FREQ menu.

SETUP MENU

5. Use the ◀ and ▶ buttons to select the frequency.
You can select the US/EURO (87.5MHz to 108 MHz) or JAPAN (76MHz to 91.0MHz).
6. Press the ▼ button to select GOTO MAIN MENU and press the ENTER to return to the RADIO menu, or press the SETUP button to exit the SETUP MENU.

To set AM frequency:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/INPUT menu appears.
3. Press the ▼ button until RADIO is selected.
4. Press the ENTER button to enter the SET AM FREQ menu.
5. Press the ▼ button until SET AM STEP is selected.
6. Use the ◀ and ▶ buttons to select the frequency step.
You can select the USA 10kHz or 9kHz for outside North America.
7. Press the ▼ button to select GOTO MAIN MENU and press the ENTER to return to the RADIO menu, or press the SETUP button to exit the SETUP MENU.

SETUP MENU

Listening to the Radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions.

1. Press the AM or FM button on the remote handset or front panel to select the band.
2. Tune to a station. There are two ways to do this:

Automatic tuning and saving station

To search for stations in the currently selected band, press TUNER SCAN button in the remote handset. The Cinema 11 will start searching for the next station, one after another, beginning with the current station, for approximately 5 seconds each. Station frequencies will be assigned to station numbers in the memory.

Manual tuning

To change the frequency one step at a time, press TUNER SEEK.

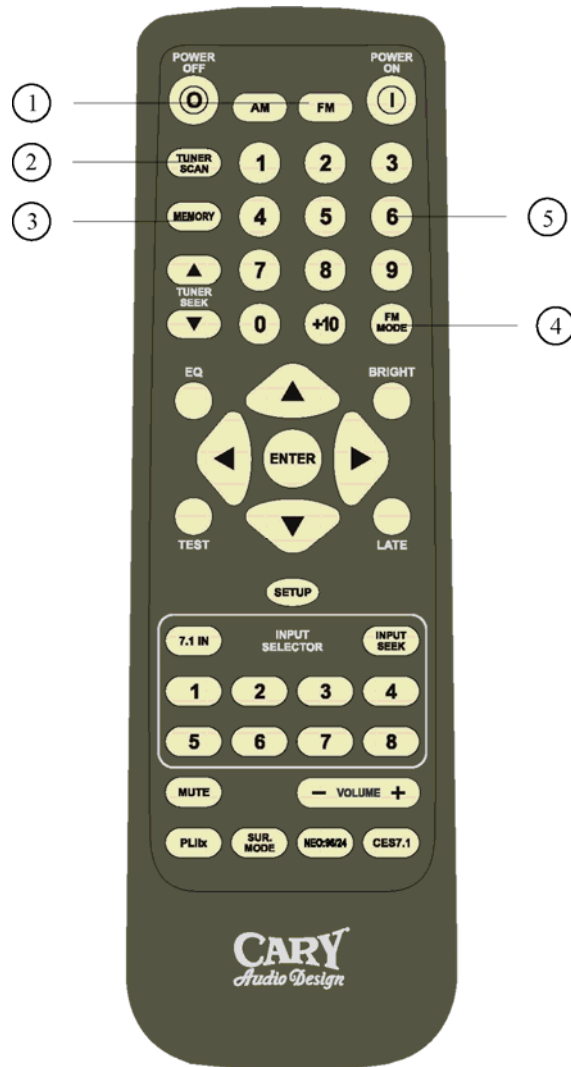
3. Saving station presets
If you often listen to a particular radio station, it's convenient to have the processor store the frequency for easy recall whenever you to listen to that station. This saves the effort of manually tuning in each time. This processor can memorize up to 30 stations.

Tune to a station you want to memorize.

Press the MEMORY button and the display shows SAVE P00?

Press the NUMBER button to select a station preset. It will automatically save the station.

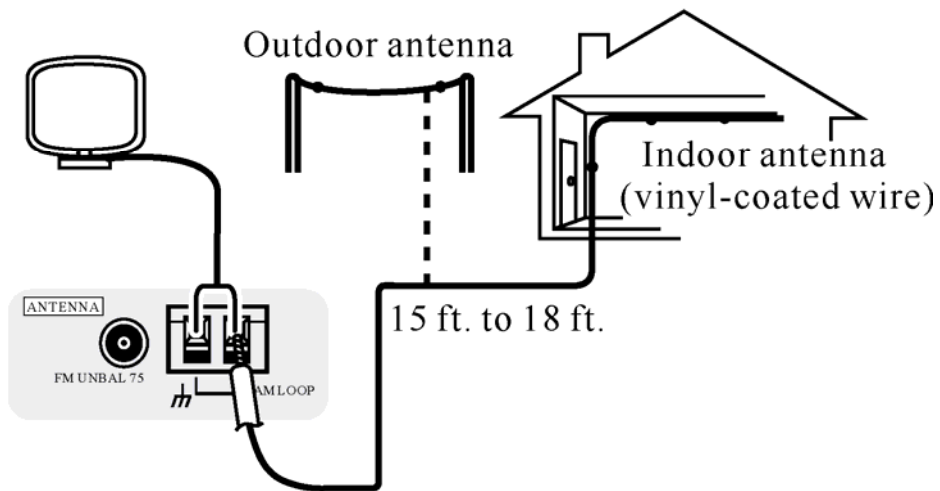
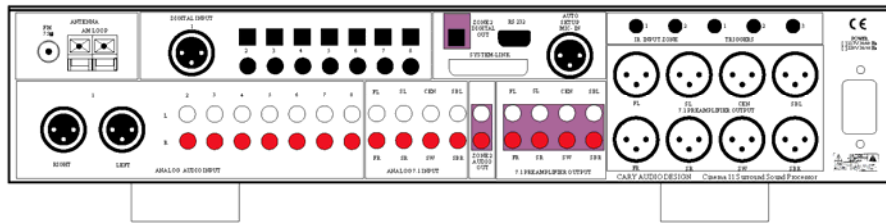
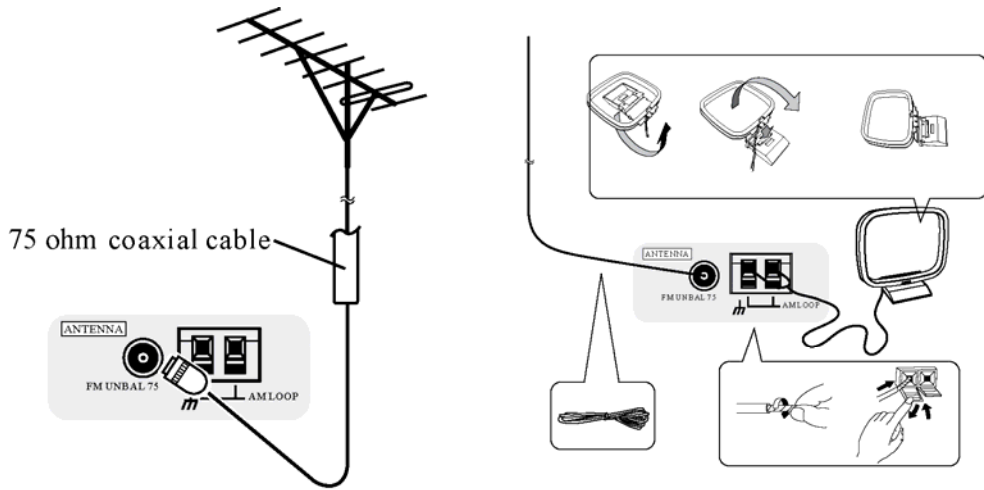
4. Improving FM stereo sound
If the TUNED or STEREO indicators don't light when tuning to an FM station because the signal is weak, press the FM MODE button to switch the processor into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast. An outside antennae or a cable FM connection will improve reception.
5. Listening to station presets
You will need to have some presets stored to do this, See Saving station presets above if you haven't done this already. Press AM or FM to select the band. Press the number on the remote control to recall the station preset.



SETUP MENU

Connection Chart

Set Up the AM and FM Antenna



To improve AM reception, connect a 15 ft. to 18 ft. length of vinyl-coated wire to the AM LOOP terminals without disconnecting the supplied AM loop antenna. For the best possible reception, suspend horizontally outdoors.

SETUP MENU

ZONE 2

Cinema 11's front panel and main remote handset can control ZONE 2 output sources and volume control in the SETUP MENU.

- Zone 2
- Zone 2 input
- Zone 2 volume

To set Zone 2 input:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/ INPUT menu appears.
3. Press the ▼ button until RADIO is selected.
4. Press the ▼ button until ZONE 2 is selected.
5. Press the ENTER button to enter the ZONE 2 INPUT menu.
6. Use the ◀ and ▶ buttons to select the zone 2 input sources.
You can select INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, INPUT 6, INPUT 7, INPUT 8, 7.1CH (L & R ONLY) AM and FM.
7. Press the ▼ button to select GOTO MAIN MENU and press the ENTER to return to the ZONE 2 menu, or press the SETUP button to exit the SETUP MENU.

To set ZONE 2 volume:

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until INPUT is selected.
The SETUP MENU/ INPUT menu appears.
3. Press the ▼ button until RADIO is selected.
4. Press the ▼ button until ZONE 2 is selected.
5. Press the ENTER button to enter the ZONE 2 INPUT menu.
6. Press the ▼ button until ZONE 2 VOLUME is selected.
7. Use the ◀ and ▶ buttons to select the zone 2 output volume.
You can adjust the zone 2 volume level from -90dB to +15dB.
8. Press the ▼ button to select GOTO MAIN MENU and press the ENTER to return to the ZONE 2 menu, or press the SETUP button to exit the SETUP MENU.

SETUP MENU

OTHER

Other options included in the SETUP menu are:

Password..... Off / On / Change
AV SYNC Delay Off / 1-100ms (1 ms = approx. 1 foot or 1/3 meter)
Bright..... High / Mid / Low / Off
Edit Custom Name
IR Controls Front / Rear / Both
TRIGGER..... Zone 1 / Zone 2 / Zone 1 & 2
Auto Input Seek..... On / Off
Late Off / Half / Full (Dolby Digital only)
Restore Default Restore Default / Restore Default OK!

To set PASSWORD:

Setting a password allows you to keep settings from being changed by visitors, children or others curious about your Cinema 11.

1. Press the SETUP button to enter the SETUP MENU.
The SETUP MENU / SPEAKER appears.
2. Press the ▼ button until OTHER is selected.
The SETUP MENU/ OTHER menu appears.
3. Press the ENTER button to enter the PASSWORD menu.
4. Press the ENTER button to enter set the PASSWORD MODE menu.
5. Use the ◀ and ▶ button to select the OFF mode, ON mode.
When you choose the ON mode, you will have to key in the password the next time you enter the SETUP menu.
The Default Preset Password is 0, 0, 0, 0 when you receive the Cinema 11.
6. Press the ▼ button to select the PASSWORD CHANGE mode.
7. Press the ENTER button to enter the change ENTER OLD PASSWORD menu.
Key-in the old password (password preset 0, 0, 0, 0)
*, *, *, *, Enter the New Password: _ _ _ _ , ReEnter the password: _ _ _ _ .
Password set!
8. Press the ▼ button to select BACK and press the ENTER to return to the PASSWORD menu, or press the SETUP button to exit the SETUP MENU.

AV SYNC Delay:

1. Press the ▼ button until AV SYNC DELAY is selected.
The OTHER/AV SYNC DELAY menu appears.
2. Use the ◀ and ▶ buttons to select OFF mode or 1ms to 100 ms delay time of Audio & Video sync Delay. This is useful in large rooms or with a DVD player that up converts video to higher resolution settings like the DVD 7 which offers 1080p video outputs.

SETUP MENU

Bright:

1. Press the ▼ button until BRIGHT is selected.
2. Use the ◀ and ▶ buttons to select VFD display brightness.

The following options are available for display brightness:

- High - Normal brightness level is set with this choice.
- Mid - Brightness is set to 50% of the normal setting.
- Low - Brightness is set 25% of the normal setting.
- Off – The display is OFF.

Edit Custom Name:

1. Press the ▼ button until EDIT CUSTOM NAME is selected.
2. Press the ENTER button to enter the EDIT CUSTOM NAME menu.
3. Press the ENTER button to start the CARY CINEMA 11 rename menu. The cursor automatically appears beneath the first character in the current input name.

Use the ▲ and ▼ buttons to select the desired character above the cursor.

0 123456789: ;<=>?@ABCDEFGHIJKLMNPOQRSTUVWXYZ

[\]-_ \ abcdefghijklmnopqrstuvwxyz{|}-_

4. Use the ▶ button to advance to the next character space. The cursor will automatically wrap to the first character space when the last (twelve) character space is passed.
5. Use the ◀ button to return to the previous character space.
6. Press the ENTER to restore the custom input names.
7. Press the ▼ button to select BACK and press the ENTER to return to the EDIT CUSTOM NAME menu, or press the SETUP button to exit the SETUP MENU.

To set IR Controls:

If you select 'rear' the front will ignore infrared remote commands. Use the front panel buttons to make changes in this case.

1. Press the ▼ button until IR Controls is selected.
The OTHER/IR CONTROLS menu appears.
2. Use the ◀ and ▶ buttons to select the FRONT mode or REAR mode.
When you select FRONT mode, the remote sensor uses the front panel IR sensor.
When you select Rear mode, the Cinema 11's remote sensor does not function. You need an optional remote control sensor and connection to the back panel IR INPUT 1 or use the buttons on the front panel to change back to front mode.

SETUP MENU

To set TRIGGERS:

1. Press the ▼ button until TRIGGERS is selected.
The OTHER/ TRIGGERS menu appears.
2. Use the ◀ and ▶ buttons to select the zone of triggers.
If select the ZONE 1, a 12-volt trigger signal is output when zone 1 is turned on the Cinema 11.
If select the ZONE 2, a 12-volt trigger signal is output when zone 2 is turned on the Cinema 11.
If select the ZONE 1 & 2, a 12-volt trigger signal is output when cinema 11 is turned on.

To set AUTO INPUT SEEK:

1. Press the ▼ button until AUTO INPUT SEEK is selected.
The OTHER/ AUTO INPUT SEEK menu appears.
2. Use the ◀ and ▶ buttons to select the auto input detect on or off.
When you select ON, the Cinema 11 can auto detect input sources.

To set Late Mode for Dolby Digital:

1. Press the ▼ button until LATE is selected.
2. Use the ◀ and ▶ buttons to select the LATE mode in Off, Half and Full.

Note: This option only operates with a Dolby Digital or Dolby Digital EX source and one of these modes is active. This option allows you to set the 50% of Dynamic Range Compression used when the Cinema 11 is placed into the LATE Half mode and set 100% of Dynamic Range Compression used when you select the LATE mode in Full. This mode can also be selected by pressing the LATE button on the remote control.

This mode of operation makes the softest sounds louder and the loudest sounds softer, reducing the overall dynamic range. You will notice that the vocal dialogue is easy to understand in this mode even when playing quietly.

To set RESTORE DEFAULT:

1. Press the ▼ button until RESTORE DEFAULT is selected.
2. Press ENTER to run the RESTORE DEFAULT.

NOTE: When the processor is reset, you will lose all settings.
When you are finished with the reset, the display appears:

OTHER
Restore Default!

3. Press the ▼ button to select GOTO MAIN MENU and press the ENTER to return to the OTHER menu, or press the SETUP button to exit the SETUP MENU.

SERVICE AND CARE

CARE AND CLEANING

The cabinet housing and front panel of the Cinema 11 may be cleaned with a soft cloth and Windex or a window cleaner. The frequency of cleaning will be governed by how many hours the Cinema 11 is operated and by operating environment cleanliness.

FACTORY SERVICE

Careful consideration has been given to the design of your Cinema 11 processor to keep maintenance problems to a minimum. Any problems or requests for service should be referred to our Customer Service Department at 919-355-0010. DO NOT return the Cinema 11 to the factory without a return authorization number (RA) from the Customer Service Department.

Cary Audio Design will assume no responsibility if the shipping company refuses to pay for damage due to your improper packing or lack of insurance should the unit be lost or damaged in shipment. Please retain and always use the original shipping carton for shipping the player.

NON-WARRANTY REPAIRS

Cary Audio Design will provide repair service for its products charging on a time and expense basis. At this time, the standard non warranty service bench fee is \$125 with all parts used for repair charged extra. This may change and is not a quote for service. Please call us at 919-355-0010 for more information about out of warranty service and repair fees.

CAUTION - Never remove or insert the back panel AC plug when the unit is on or the ac cord is plugged into the wall.

UNITED STATES LIMITED WARRANTY

Cary Audio Design warrants to the original United States purchaser for use in the United States that Cary Audio Design vacuum tube or solid state power amplifiers, surround sound processors or preamplifiers shall be free from defects in parts or workmanship for three (3) years from the date of the original purchase. Vacuum tubes, if any are used in the component, are offered a 90 day from purchase date exchange policy against defects with the exception of the CAVT 300B vacuum tube which has a (1) one year from purchase date exchange policy. Any digital drive design, whether a Cary Audio Design CD or SACD player or a Cary Cinema DVD player, has a limited one year parts and labor warranty against defects in manufacture. This is a limited warrant, for the original purchaser only and does not transfer to any subsequent owner.

During the limited warranty period, Cary Audio Design or an authorized Cary Audio Design service facility will provide free of charge both parts and labor necessary to correct any defects in material or workmanship.

To obtain such warranty service, the original purchaser must:

1. Complete and send in the warranty Registration Card within 15 days of purchase.
2. If claiming service the owner must send a fully filled in copy of the original sales receipt along with any unit sent in for service showing the AUTHORIZED CARY AUDIO DESIGN DEALER'S name, the new selling price, the buyer's name, e-mail or phone number and address on the receipt. Blank receipts will NOT validate the limited warranty for service.
3. Notify Cary Audio Design as soon as possible after the discovery of a possible defect and submit the following information to determine eligibility for warranty:
 - (a) The model number and serial number;
 - (b) A fully filled in copy of the original sales receipt showing the original selling price, purchasers name and address filled in by an AUTHORIZED CARY AUDIO DESIGN DEALER with the original date of purchase shown on the form;
 - (c) a detailed description of the problem.
4. Deliver the product to Cary Audio Design or the nearest authorized service facility or ship with all freight and insurance charges prepaid, in its original packing container or equivalent, to Cary Audio.

Correct maintenance, repair and use are important to obtain performance from this product. Therefore, please carefully read the Operating Manual. This warranty does not apply to any defect that Cary Audio Design in its sole discretion determines is due to:

1. Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and the specifications of the original parts.
2. Misuse, abuse, neglect or improper installation.
3. Accidental or incidental damage.

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EXCLUSIVE REMEDY

Notwithstanding the foregoing, the purchaser's exclusive remedy for any breach of warranty, express or implied, is limited to the repair or replacement of the defective unit or the refund of the purchase price, at the option of Cary Audio Design. Under no circumstances is Cary Audio Design liable for incidental or consequential damages. Any implied warranties imposed by law terminate one (1) year from the date of purchase.

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CARY AUDIO DESIGN

1020 Goodworth Drive, Apex, NC 27539
phone 919-355-0010
fax 919-355-0013
www.caryaudio.com

