



Cary Audio Design

Cinema 8

7.1 Channel Surround Sound Preamplifier

Set Up and User's Manual

Congratulations New Cary Owner!

You are the proud new owner of a Cary Cinema 8 surround sound preamplifier! This preamplifier is designed to be sonically transparent, to offer excellent control switching for audio, digital and video components and to be easy to set up and operate. Thank you very much for selecting our Cinema 8 preamplifier for your home cinema use!

Let's start by setting up the Cinema 8 in your system.

Begin by unpacking the Cinema 8. Save the packing carton with all the packing materials inside it. If the Cinema 8 ever needs service, the original packing carton will be needed to ship it safely back to your dealer or to Cary Audio. Store it in the attic, keep it in the back of the broom closet or under a bunk bed somewhere! Don't throw it away; it is valuable! Now, unpack the remote control, insert the batteries correctly according to the labels on the batteries and check the remote is working properly. When you push a button on the remote control the buttons should light up momentarily.

Set the Cinema 8 in a component rack or the audio video furniture you intend to use for your system. Plug the AC power cord into a grounded AC socket to ensure correct operation. Look at the back panel and note the comprehensive audio/video switching provided by the INPUT and OUTPUT connections. There are 4 coaxial digital inputs, 2 TOSLINK digital inputs and an AES/EBU balanced digital input for a total of 7 digital inputs. In addition, there are 10 stereo analog sets of inputs, Zone 2 audio/video inputs and outputs, XLR analog stereo BYPASS, 7.1 analog BYPASS connections, 7.1 MAIN preamplifier outputs and 2-channel tape monitor connections.

Begin with the connections for your system, starting with the AC power. Turn the back panel main power switch ON. Press the front panel STANDBY button to 'wake up' the Cinema 8. *Do not turn on your power amplifier yet. We'll do that in SPEAKER SETUP.*

Connect the Cinema 8 to a television monitor using a back panel video output that has an on screen display 'OSD' label next to it. The S-Video OSD or Composite video OSD output will work. Then you will see the SET UP screen on your video monitor while completing the rest of the set up. Choose the OSD input on the TV. (NOTE: The 'on screen' display is for the composite or S-Video outputs.)

When connecting components to the Cinema 8 it is important that *all the connections for a source component are connected to the same numbered input.* For example, the audio, video and digital outputs from a source component to DVD should be connected to the #1 audio, video and digital Inputs. (The inputs may be renamed later if you wish.) LEFT channel inputs are WHITE and RIGHT channel inputs are RED, composite video inputs are YELLOW.

The 3 Component Video Inputs and the Component Video Output will function after initial SET UP. Set Up Component Video switching in **Source Setup**; choose a component video input for any Input 1-10. The *default setting* for Component Video is OFF. On the back panel of the Cinema 8, from *left to right, top to bottom* the Cinema 8 has composite video inputs 1- 6, composite video outputs 1 - 4 (1 w/OSD, 3 without,) 6 S-Video inputs, 3 S-Video outputs (1 w/OSD, 2 without,) 1 TOSLINK optical digital output, 4 coaxial digital inputs, 2 TOSLINK optical digital inputs, an AES/EBU balanced digital input, an RS-232 port, Infrared (IR) Zone 2 in, Infrared Main in, DC remote Trigger 1, DC remote Trigger 2 (Trigger 2 is paralleled with dual trigger connectors), The middle row has Left and Right balanced XLR analog inputs, balanced 7.1 outputs, 3 Component video inputs, and 1 Component video output,

Choose the Input Number you wish to rename. Highlight the name of the Input and press the central round SELECT button on the remote control.

A small cursor will appear under the first letter of the name of the Input, for example, TUNER. Press the up/down volume control buttons next to the SELECT button on the remote control. This will scroll through all the UPPERCASE letters, all lowercase letters and then numbers and symbols. Move to the next desired letter and repeat with each letter until you have the name that you want for your Input source. When you have renamed the Input, press the SELECT button again. This will end the cursor and save the new name for the source component. Choose what video input is assigned to the component, which digital input (if any) is assigned to the component, set analog sensitivity (if needed) and then which balanced analog input (if any / 8B model only) is assigned with the component. When finished select EXIT. You have just assigned a new name and all the input connections associated with it to a source component on your Cinema 8.

The **7.1 BYPASS** mode and the 2-channel tape monitor connections have fixed settings and fixed names. These two input sets are not assignable for names or associated connections like the other audio or video inputs. Finally, recheck all patch cable connections to be certain they are fully inserted into the connection jacks on the back panel of all of the components connected to the Cinema 8.

Setting speaker size, levels and speaker distances in INITIAL SET UP

Press the MENU button on the remote control. Check speaker size, level balance and speaker distance settings for all the channels in SET UP. In SPEAKER SET UP *choose the speaker size according to the owners manual with your speakers: choosing Large, Small or No for front, center, subwoofer, surround and 1 or 2 surround back speakers. (5.1, 6.1 or 7.1 speaker set up.)*

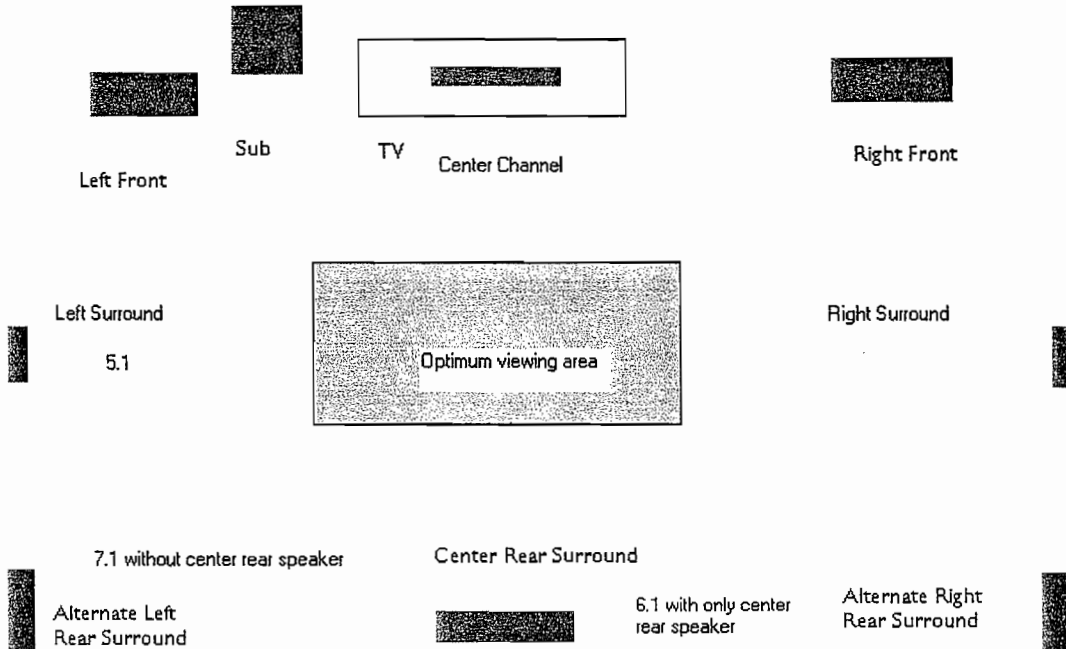
Turn on the power amplifier now. An analog Radio Shack * sound level meter, set to C Weighting and to SLOW meter response, is expressly recommended for these adjustments! Hold the sound level meter so that it is facing upwards toward the ceiling, in the same location, for all the sound level readings. Choose **LEVEL SETUP**. Press the NOISE button on the remote control. Set all channels for equal sound intensity, using the 70-dB volume range setting on the meter. Individual speaker volume settings have a plus or minus ½ dB adjustment, per volume step, to make equal sound pressure from each speaker as precise as possible. Add or subtract volume for each speaker to make the meter read 75 dB for each channel at your favorite listening spot. Use the remote control Volume +/- to set equal loudness levels.

Note: The Cinema 8 will play the Test Tone in each speaker individually if you highlight one during sound level set up and press the volume + or - button. It will switch to each speaker automatically and show a musical note next to the channel playing after a short delay. Use either level setting method according to whichever is more comfortable for you. Both methods give accurate set up volume level readings.

A tape measure is essential for setting speakers for correct distances and angles of 'toe in' or the correct listener to speaker distance in DISTANCE. Measure the distance from the main listening spot to each speaker and enter the distance into the settings for FRONT LEFT, CENTER, FRONT RIGHT, SURROUND, SURROUND BACK LEFT and SURROUND BACK RIGHT. The main front speakers should be equidistant, or nearly so, from the main listening spot for the best 'focus' in your system.

All of us at Cary Audio Design wish to thank you again for choosing our Cinema 8 to be your surround sound processor preamplifier! See the drawing for suggested speaker layouts. Other layouts are possible or desirable in some room layouts. Ask your dealer for advice if your room is unusual in shape, such as an 'L' shaped room.

The optimum listening and viewing experience is in the central area, shown in the diagram. Optimum viewing distance is a minimum of ~ 3.3 times the screen size. As an example, a 42" wide, 16 x 9 plasma TV would be best if viewed from a minimum of 11-12 feet from the screen. Small rooms would need a smaller TV. Viewing too close to a very large display will emphasize any artifacts in the video signal.



Above is a suggested speaker system layout for 5.1, 6.1 or 7.1 speaker installation. The suggested DVD-Audio 5.1 speaker layout may vary from this pattern somewhat, with the Left Surround and the Right Surround speakers moved a bit further back in the room and angled in toward the center listening area a bit, not aimed straight across as in this diagram. We suggest that you experiment a bit with this for your listening room to see which works best for you.

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I: INTRODUCTION

Thank you for selecting the Cinema 8 Preamplifier for your audio and video signal processing needs. The Cinema 8 is the center of a High-End home cinema and audio system. It decodes Dolby Digital, DTS and Dolby Pro Logic source material from normal or High Definition TV, satellite broadcasts, DVD disks, VCR tapes or Laser Disks. Naturally, the Cinema 8 can function as a High-End stereo preamplifier.

The Cinema 8 accepts up to seven digital input sources, ten line level audio input sources, a tape monitor loop and two additional record outputs. It has six S-Video, six composite video inputs, S-Video and composite video monitor OSD (On Screen Display) outputs, S-Video and composite video record outputs, three Component video inputs and one Component video output.

The Cinema 8 has two main modes of operation: In the normal function mode it automatically senses the type of the incoming signal and selects the mode that gives optimal reproduction quality. The user can disable the automatic selection and select different post-processing modes for the incoming signals. These modes are stereo, Dolby Pro-Logic, mono down mixing and Music Modes: Natural Dolby Pro Logic II Music, DTS NEO Music and Party. If desired, the user can bypass the digital section of the Cinema 8 and connect a stereo source to the XLR Left and Right channels or the 7.1 channel input to achieve *stereo or multichannel analog bypass* mode.

System integration options are provided by the three 12 VDC trigger outputs to control external equipment and by communication with a PC or home automation system via the RS 232 interface.

<p>DANGER: Moisture is dangerous for any electric device and forms a fire hazard or risk of electric shock. If liquid is accidentally spilled on the 8 <i>immediately shut off its power at the wall outlet by unplugging the AC power cord.</i> Allow sufficient time for complete evaporation before using the preamplifier again. If any liquid other than water enters, do not use the device before examination by a qualified service technician.</p>
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DANGER: Do not open the cover, or try to modify or repair the preamplifier yourself in case of trouble. All servicing should be referred to a qualified service technician or your Authorized Cary Cinema dealer.

Using the TAPE loop you can monitor the level and quality of the recording at the same time as the recording takes place. You can also use it for connecting external devices such as an equalizer to the signal path. Note: You must bypass it when listening to a Pro Logic source.

Any ANALOG stereo source you have selected on the Cinema 8 will be automatically fed to the TAPE REC output sockets for recording. You cannot make a recording from a source that is connected to the digital inputs or the 7.1 channel bypass inputs.

5: RECORD OUTPUTS 1...2

The REC outputs carry the signal from the currently selected ANALOG stereo source device (except the source connected to the TAPE PLAY input or the 7.1 CHANNEL INPUT). You can connect these outputs to the inputs of any recording device. The signal can also be used in a multi-room set-up to feed power amplifiers in the other rooms.

6: ZONE AUDIO OUTPUT

This is an additional stereo output. You can use it to give a signal from the Cinema 8 to a power amplifier and a pair of loudspeakers that are located in another room. This is a variable volume output, like a stereo preamplifier, for another room or multi-zone system. Choose the source component for Zone 2 in Source Set Up.

7: The **7.1 CHANNEL BYPASS INPUTS** connect the audio outputs from any multi-channel analog source such as an SACD player or a DVD-Audio player to the inputs by using up to 5.1 interconnect cables. The 7.1 CHANNEL inputs may be used with mono, stereo, 5.1 channel, 6.1 channel or 7.1 channel sources. You can also use these inputs as an "Analog Direct" input if you want to bypass the digital section of the Cinema 8. Note: In this case you cannot use the record outputs.

8: 7.1 CHANNEL OUTPUTS (LEFT FRONT, CENTER, RIGHT FRONT, LEFT SURROUND, LEFT REAR, REAR SURROUND, RIGHT REAR AND SUBWOOFER) Connect these outputs to the line inputs of your power amplifiers. The SUB output is normally fed to the low-level Line Input of an active subwoofer. Alternatively it may feed a passive subwoofer through a separate power amplifier. These outputs carry the analog signal that is fed to the LEFT REAR and RIGHT REAR 7.1 CHANNEL INPUTS so that the 8 can be used with an external 7.1 channel analog source connected to the 7.1 channel inputs. Dolby EX or DTS-ES signals will use 6.1 or 7.1 speaker outputs when the 8 is set to these modes of operation with appropriate source material.

VIDEO CONNECTIONS:

10: COMPOSITE VIDEO INPUTS 1 thru 6

Connect the composite video output cables coming from your video sources to these inputs.

Note: Take care to use the SAME NUMBER inputs for the composite video, S-Video and analog audio cables from a single source. For example, cables from a DVD player attached to VID 1 should go to the VIDEO 1 S-VIDEO or VIDEO 1 COMPOSITE VIDEO and VIDEO 1 ANALOG audio inputs. The composite video signal or S-Video is selected from these signals, and the signal is fed out from the COMPOSITE VIDEO record (REC) and monitor (MON) outputs. On Screen Display information is added to the MON output. If the DVD is also multi channel analog out, for SACD or DVD Audio, connect the 6 channel analog outputs to the 7.1 BYPASS INPUTS on the rear panel.

11: COMPOSITE VIDEO OSD OUTPUTS

The On Screen Display (OSD) information is present at this output. You can also use the COMPOSITE VIDEO MON output even if there is an S-Video source connected. The S-Video signal you have selected is down-mixed to this output and you can use it for monitoring. You can switch OSD off by using the SETUP menu.

12: COMPOSITE VIDEO ZONE AND REC MONITOR OUTPUTS (MONITOR WITHOUT OSD)

This is an additional Composite Video and Monitor output. You can use it for an example to give a signal to a TV located in another room. On this Monitor output the On Screen Display (OSD) is *not* displayed.

13: S-VIDEO INPUTS 1...6

Connect the S-Video output cables from your video sources to these inputs. Note: Take care to use inputs with the same name/number for the Composite Video, S-Video and analog audio cables from a single source.

S-Video signals are of dramatically higher quality than Composite Video signals. If you have a source device with S-Video outputs, we recommend you to use them, together with the S-Video inputs on your display. S-Video inputs are automatically down-mixed to feed the Composite Video MON OSD output for displays that are without S-Video inputs.

STANDBY and immediately turned off again when the 8 switched into STANDBY again. You can also program the TRIGGER outputs to be activated under other conditions, SUCH AS WHEN A CERTAIN COMPONENT IS CHOSEN AS A SOURCE (see menu section). The TRIGGER outputs deliver 12 VDC at a maximum total current (for the three outputs) of 200 mA. Trigger 2 and 3 are in parallel and are therefor marked as 2/2 on the rear panel.

CAUTION: CONNECT, OR DISCONNECT THE TRIGGERS ONLY WHEN THE POWER SWITCH IS OFF, OR THE UNIT IS DISCONNECTED FROM MAINS POWER!

III: FRONT PANEL CONTROLS

STANDBY SWITCH

When you plug the 8 into a “live” mains power wall socket and turn the POWER switch ON, it will power up in “standby” mode. In this mode the internal circuit of the 8 is powered but inactive. When you press the STANDBY button the 8 is activated. The INPUT last used and the MODE last used is selected and the LED above the STANDBY button will glow blue. The LINE outputs will be muted for a few seconds. When you press the STANDBY button again the device will return to standby mode *with no lights showing*. Note: always switch the 8 to STANDBY before switching the POWER OFF at the rear panel to prevent an unwanted output pulse being sent to the power amplifier.

<p>DANGER: In the STANDBY mode the internal circuitry is still “live”. Please <i>follow all safety precautions</i> to prevent electric shock or fire!</p>
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DISPLAY WINDOW

Behind the display window there is a high quality blue Vacuum Fluorescent Display (VFD) that shows the volume setting, the input selected and operating condition of the Cinema 8. Behind the window there is also an infrared receiver which receives the commands sent from the remote handset to the Cinema 8.

VOLUME CONTROL

With the volume control you can adjust the sound level of the signals that are fed to the LINE inputs. You can adjust the listening volume at the same time as your are recording without affecting your recordings level settings. (Note: The volume control does not affect the signals that are fed to the TAPE REC sockets.)

The volume setting indication is situated in the bottom right of the display, for example “Vol: -15”. The display shows the preamplifier gain in dB (decibels). If you set the volume below -20, the 8 Cinema will remember this level when you switch it into STANDBY mode and will reinstate the level when you switch it back on again.

Mono	Dolby Digital 5.1	Not applicable	Not applicable
	Dolby digital 2/0	Not applicable	Not applicable
	Dolby digital 2/0, Pro Logic on in the bitstream	Not applicable	Not applicable
	DTS 3/2, DTS ES	Not applicable	Not applicable
	PCM	Mono	C
	Analog signal	Mono	C
Pro Logic (PL II)	Dolby Digital 5.1, Dolby EX	Not applicable	Not applicable
	Dolby Digital 2/0	Dolby Pro Logic	L,R,C,LS,RS
	Dolby digital 2/0, Pro Logic flag on in the bitstream	Dolby Pro Logic or Dolby Pro Logic II	L,R,C,LS,RS
	DTS 3/2, DTS ES	Not applicable	Not applicable
	PCM	DTS NEO Dolby Pro Logic	L,R,C,LS,RS
	Analog signal	Dolby Pro Logic	L,R,C,LS,RS
Music Modes: Natural, Party, PL II Music, NEO Music	Dolby digital 5.1	Not applicable	Not applicable
	Dolby digital 2/0	Not applicable	Not applicable
	Dolby digital 2/0, Pro Logic flag on in the bitstream	Not applicable	Not applicable
	DTS 3/2, DTS ES	Not applicable	Not applicable
	PCM	Music Mode	L,R,C,LS,RS
	Analog signal	Music Mode	L,R,C,LS,RS

SELECT/PLAY

This is the “enter” key in setup mode. You can use it to access sub-menus or to activate special menu items.

UP, DOWN, LEFT, RIGHT KEYS (^ v < >)

You can use keys to navigate in the menu. The up and down keys are for selecting the parameter to be adjusted. The left and right keys are for adjusting the parameter you have selected with the up and down keys. The selected parameter is shown in the OSD with different color and in the bottom row of the front panel display, or by an arrow in the beginning of the line.

DIRECT ACCESS KEYS

There are direct access keys in the remote control handset. You can access all sources directly from those keys. For example when you press the AUDIO 2 key, the audio and video input signals are selected for analog AUDIO INPUT 2. They are processed and fed to the appropriate outputs for listening and viewing.

CINEMA Equalization

When you press the Cinema button CINE equalization will be switched on and the text CineEQ ON will appear in the front panel display and On Screen Display. Press the button again when you want switch CINEMA EQ off.

This feature is offered because sometimes a movie soundtrack sounds overly ‘bright’ because it has been balanced to take account of the acoustics in typical movie theaters where the speakers are installed at a greater distance than in your home and they are playing *through* the movie screen. Cinema Equalization is designed to compensate for this excessive brightness without impairing treble sound quality. **Note:** If the Cinema 8 is set to a Music Mode, then CINEMA EQ does not function.

7.1 CHANNEL INPUT (BYPASS)

The 7.1 button gives you instant access to select the 7.1 CHANNEL INPUT, which is deselected when the source is changed by using either the remote control handset or the front panel SOURCE SELECT buttons or by pressing the 7.1 CH button again.

TAPE MONITOR

When you press the TAPE MONITOR button you can hear the output signal from a tape or digital recorder connected to the TAPE PLAY sockets on the rear panel. This is a toggle function button: press it once to engage and again to disengage.

of the cursor keys. Adjust the functions by using the LEFT and RIGHT Auto Video/Tune KEYS.

The front panel display shows only one title line and one other line of the menu, commencing with the top line. You can use the UP and DOWN keys to select the other lines of the menu, to access a sub-menu or a function to be adjusted. Use the Mem/Enter, Up, Down, Left and Right keys as described above. You can do all the setups by using the front panel display, if you so desire. (OSD gives more information on your TV screen.)

MAIN MENU

The main menu lists sub-menus that can be highlighted by using the UP and DOWN keys and accessed by pressing the SEL key.

- AUDIO CONTROL allows adjustment of the Bass and Treble levels and includes settings for the PRESET 1 through 5 memory settings. PRESET allows the front, center and rear volume levels, Bass and Treble to be set for different levels with five different memories or presets.
- LEVEL SETUP allows the speaker volume levels to be adjusted individually for all channels, in ½ dB steps.
- DISTANCE SETUP sets the individual distances for the Front Left, Center, Front Right, Left Surround, Left Back, Right Back and Right Surround speakers, in Feet or Meters, according to your choice in SET UP.
- SPEAKER SETUP defines the number and size (Large/Small/None) of the speakers in your system including sub woofer ON/OFF (5.1, 6.1, 7.1 speaker selection)
- SOURCE SETUP defines source related parameters, for all video or audio inputs
- DISPLAY SETUP changes video formats (NTSC/PAL) and defines how the On Screen Display works, with 30 color schemes for OSD included
- TRIGGER setup sets the parameters for the TRIGGER functions for 1 and 2/2 connections (Trigger 2 and 3 are in parallel)

TONE CONTROLS

- You can adjust bass between 12 dB cut (-12 dB) and 12 dB of boost (+12 dB) in 1-dB steps. You can adjust treble between 12 dB cut and 12 dB of boost in 1 dB steps
- PRESET allows you to set the relative levels of the Tone controls, the Volume levels for Main, Center, Sub Woofer and Rear speakers and associate these with a

SPEAKER SETUP

Speaker setup defines which speakers can handle full-scale low frequency signals as in the case of "Large" speakers. It also defines whether the bass from these channels must be redirected to those which have "Large" speakers or a subwoofer.

- Speakers that can handle full frequency signal (including full frequency range bass response) are set to Large.
- Speakers that cannot handle a full frequency range bass signal are set to Small. The lowest bass signals do not go to Small speakers but are redirected to the Large speakers and/or the subwoofer. The subwoofer crossover sets the crossover point, from 40 to 140 Hz in 10 Hz 'steps.'
- If a speaker is not used (e.g. no Center channel speaker) set it to "NO" for none.
- You can set the subwoofer crossover frequency from 40 Hz to 140 Hz, in 10 Hz steps. The crossover frequency defines the frequency below which the low frequency signal does not go to Small speakers, but is redirected to the Large speakers and/or a subwoofer.
- Enhanced Bass duplicates the subwoofer information to both Large speakers and the subwoofer. You may desire this in some cases to get more bass from the system.

SOURCE SETUP

- Source Setup specifies the parameters for each analog source 1-10. This includes which Digital or Component Video input is assigned to each source. It also indicates the analog input sensitivity. In addition you can change the name of a source as it appears in the on Screen and Front Panel displays. (CD-306 for your CD player, for example) PRESET 1-5 memories can be assigned to any input in the set up menu.
- When you select a source you may use the REW and FF keys to select which of the analog sources 1-10 are to be set up. When you select a Title you may edit the source Title. Press Mem/Enter and use the LEFT and RIGHT keys to choose the character you want to change and the UP and DOWN Volume keys to change the character. When the editing is complete, press Mem/Enter to store the new name. The table in the added pages, page 3, lists the default names for all the sources
- When you select Digital, you may use the LEFT and RIGHT Auto Video keys to select which of the seven digital sources is assigned to the analog source being set up. You may assign a digital source to more than one analog source.

- OSD style changes the screen text color, with 30 different OSD color schemes to choose from in this section. Helpful warning notes are shown in a different color.

TRIGGER SETUP

The Trigger Setup specifies the parameters for the DC Trigger outputs. You may set each of these parameters for TRIGGER 1, TRIGGER 2 and TRIGGER 3 OUTPUTS. (2/2, since 2 and 3 are in parallel)

Use the UP and DOWN Volume keys to select the parameter you wish to change. In each case use the LEFT and RIGHT Auto Video keys to alter the parameter you have selected.

- “Sense” sets which controls activate the trigger output. Set to Power On activate the trigger when switching out of STANDBY (and deactivate it when returning to STANDBY); Alternatively you may activate the trigger output when you select any of the inputs
- “Polarity” sets the polarity of the trigger output. “Posit.” gives a +12V DC output when trigger is active and +0V when inactive. “Negat.” gives +0V DC output when the trigger is active and +12 DC when the trigger is inactive.
- “Delay” sets a delay between the “sense” signal and the trigger output voltage change. You may set the delay to last from 1 second to 3 minutes or to “No” position that gives zero delay
- “Duration” Sets the period (duration) when the trigger output is active. You may set the trigger duration last from 10 ms (milliseconds) to 3 minutes, or to “Infin.” that keeps the trigger active while the “sense” condition prevails

VII: SPECIFICATIONS

All specifications refer to 1 V rms. and 0 dBf digital or 2 V rms. Analog input, except when stated.

Surround Sound Modes Available in the 8

Dolby Digital, Dolby Pro Logic, Dolby Pro Logic II, DTS, DTS ES, DTS NEO, Surround 6.1.
Surround modes for stereo sources: Natural, Party, Dolby Pro Logic II Music, DTS NEO Music

STEREO ANALOG INPUTS

Input level	2 V rms.
Input impedance/ capacitance	17 k/100 pF
Maximum input level (input sensitivity -6 dB)	4 V rms.

STEREO ANALOG OUTPUTS (Tape REC and Record outputs)

Output level	2 V rms. (same as input)
Output impedance	60 ohms
Record outputs	500 ohms

7.1 CHANNEL ANALOG INPUTS

Input level	1 V rms.
Input impedance /capacitance	17 k/100 pF
Maximum input level	8 V rms.

7.1 CHANNEL LINE INPUTS

Input level	1 V rms.
Output impedance	60 ohms
Total Harmonic Distortion, Stereo source	0.01%
7.1 Channel source	0.003%
Signal to noise ratio (A-weighted, analog sources)	Stereo source > 90 dB
Maximum output level	8 V rms.

Digital to Analog Converters

Bit Rate/Sample Rate	24 Bit/96 kHz
Dimensions (width, height and depth)	18" X 5" X 15"
Weight	30 lb..
Voltage	115/240 V AC, 50/60 Hz

This product is manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby,' the Double-D symbol, 'Dolby Digital' 'Dolby EX' 'Pro Logic II' and 'Pro-Logic' are trademarks of Dolby Laboratory Licensing Corporation.

DTS, DTS ES and DTS NEO are trademarks of Digital Theatre Systems, Inc.

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UNITED STATES LIMITED WARRANTY

Cary Audio Design, Inc. warrants to the original United States purchaser for use in the United States, that this product shall be free from defects in material (except tubes and AF output transistors) or workmanship for:

Amplifiers and Preamplifiers, Three (3) years from the date of the original purchase.

Digital Products, One (1) year from the date of original purchase

During the warranty period, Cary Audio Design, Inc. or an authorized Cary Audio Design, Inc. service facility will provide free of charge both parts (except tubes and AF output transistors) and labor necessary to correct defects in material or workmanship.

To obtain such warranty service, the original purchaser must:

- (1) Complete and send in the warranty Registration Card.
- (2) Notify Cary Audio Design, Inc. as soon as possible after the discovery of a possible defect:
 - (a) The model number and serial number;
 - (b) The identity of the seller and the approximate date of purchase;
 - (c) A detailed description of the problem, including details on the electrical connection in the associated equipment and the list of such equipment.
- (3) Deliver the product to Cary Audio Design, Inc. or the nearest authorized service facility, or ship the same in its original container or equivalent, fully insured and the shipping charges prepaid.

Correct maintenance, repair and use are important to obtain optimum performance from this product. Therefore, carefully read the Operating Manual. This warranty does not apply to any defect that Cary Audio Design, Inc. 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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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, Inc. Under no circumstances is Cary Audio Design, Inc. 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, Inc. warrants its merchandise to purchasers in the United States for use in the United States. It provides no other warranties. If you are a foreign purchaser, consult with your dealer to determine whether your dealer provides any warranty.

The foregoing constitutes Cary Audio Design Inc.'s entire obligation with respect to this product, and the original purchaser and any user or owner shall have no other claim for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you.

This warranty gives legal rights and you may have other rights which vary from state to state.

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