

CINEMA P-7 INITIAL SET UP INSTRUCTIONS

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Congratulations New Cary Audio Owner!

You are the proud new owner of a Cary Audio Design Cinema P-7 surround sound processor preamplifier! This surround sound 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 P-7 surround sound preamplifier for your home cinema use!

Let's start by setting up the Cinema P-7 in your system.

Begin by unpacking the Cinema P-7. Save the packing carton with all the packing materials inside it.

If the P-7 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!* Unpack the remote control, insert the batteries correctly according to the labels on the batteries and check the remote is working properly. If you push a button on the remote control it should light up momentarily.

Set the P-7 in a component rack or into the audio video furniture you intend to use for your system. Plug the P-7 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 on the P-7. In addition, there are 10 sets of two channel analog inputs, Zone 2 audio/video outputs, 7.1 BYPASS connections, 7.1 MAIN preamplifier outputs and 2-channel tape monitor connections on the P-7. Refer to the photo of the P-7B below or the rear panel of the P-7 for familiarization. Begin with the connections for your system, starting with the AC power for the P-7. Turn the back panel main power switch ON. Press the front panel STANDBY button to 'wake up' the Cinema P-7. *Do not turn on your power amplifier yet. We'll do that in SPEAKER SETUP.*

Connect the P-7 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. This will allow you to see the SET UP screen on your video monitor while completing the rest of the set up for the P-7. Choose the same input on the TV. (NOTE: There is no 'on screen' display for the component video outputs.)

When connecting components to the P-7 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 AUD 2 should be connected to number 2 audio, video and digital Inputs. (These may be changed or 'assigned' to other inputs later if you wish.) LEFT channel inputs are WHITE and RIGHT channel inputs are RED for source components.



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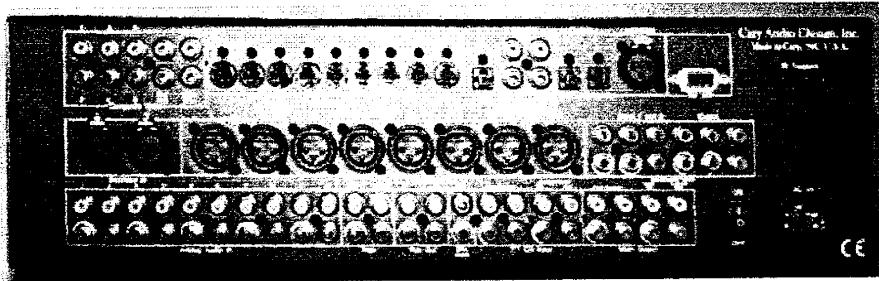
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* The 3 Component Video Inputs and the Component Video Output will function after initial SET UP. Set Up Component Video switching in Source Setup; choose a component video input for any Input 1-10. The default setting for Component Video is OFF when you unpack the Cinema P-7. *



Cinema P-7B rear panel photo.

Left to right, top to bottom the Cinema P-7B 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 digital input, 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), Left and Right balanced analog inputs, balanced 5.1 or 7.1 outputs, 3 Component video inputs, 1 Component video output, 10 sets of Left and Right analog audio inputs, audio Tape recorder playback, audio Tape recorder outputs, VCR audio record outputs 1 and 2, 2nd zone audio outputs, 7.1 BYPASS analog audio inputs, analog audio preamplifier MAIN OUTPUTS and the AC POWER SWITCH. (See diagrams included in page 6 & 7 for more complete input labels.)

NOTE: If the connections for a DVD player are connected to Input VID 1; the video output from the DVD player is connected to either the matching component video 1 input, the S-Video 1 input or the composite video 1 input. Subsequently, the Digital output of the DVD player should be connected to either the coaxial digital 1 input, TOSLINK digital 1 input or the AES/EBU digital input. The two channel analog mix down outputs from the DVD player connect to the Left and Right analog inputs for VID 1. (Input #7) (Video = VID, Audio = AUD, S-Video and component video inputs offer better video quality than the composite video input connection.)

Note: As shipped, VID 1 is the initial name shown in the front panel display or on screen display of your TV. VID 1 is labeled 7 on the rear panel RCA input connections; AUD 1 to AUD 6 are input number 1 to 6, so VID 1 = 7. As shipped, the input connections for an AM/FM TUNER = 10. The Cinema P-7 is identical to the Cinema P-7B with the exception that balanced analog inputs and outputs are not included in the middle row. See Cinema P-7B photo for input and output connection layout.

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If you use an SACD player or DVD Audio player with multiple analog channel outputs, *in addition to the normal 2 channel mix down outputs*, connect the analog outputs to the appropriately labeled 7.1 BYPASS inputs on the lower area of the P-7 back panel. This will set the P-7 to play the analog output channels of your player and will pass the analog signal directly to the volume control and then to the main outputs of the P-7. Choose 7.1 BYPASS to playback this multi-channel analog output signal.

A cassette deck, a DAT tape deck, an MD recorder, a Hi-Fi VCR used as a tape recorder, a THX * certified frequency equalizer or a reel to reel tape deck may be connected to the 2 channel tape input jacks.

Please check the connections on the recorder to be certain that the inputs on the P-7 receive the output signal from the recorder. The outputs of the P-7 connect to the inputs of the recorder, forming a loop from the P-7 to the recorder and then back to the P-7. Different recorder brands use different labels for their inputs and outputs. Please consult your recorders' users manual about which connections to connect to the 2 channel tape monitor loop inputs or outputs on the P-7.

The left and right audio output connections from an FM/AM tuner connect to the TUNER input, number 10. No video connections are possible from a tuner so only the audio connections are needed. Input RCA jack set 10 has the initial name of TUNER on the front panel and in the on screen display.

How to change the name of an Input source during SET UP.

Our default ON SCREEN labels are AUD 1 through AUD 6, VID 1 through VID 3 and TUNER when you initially operate the P-7. These labels are only a beginning name for each input. We encourage you to change the name to match the name of the source components you connect to each input. When you are in the SET UP mode (select the SOURCE SETUP section for this part) it is easy to use the remote control to re-label each input according to the name of the component you will connect to it, such as DVD D-3, Cable, CD-R 1, VCR 1, Cam 1, ExtPhn1, etc.

Choose the Input you wish to rename. Highlight the name of the Input and press the SEL button on the remote control.

A small cursor will appear under the first letter of the name of the Input, for example, VID 1. Press the up/down volume control buttons next to the SEL 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 until you have the name you want for your Input source. When you have renamed the Input, press the SEL 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 / P-7B 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 P-7.

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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 P-7.

Setting speaker size, volume levels and delay times in SET UP

Press the SET UP button on the remote control. Check speaker size, level balance and speaker delay 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 and surround speakers. Turn on the power amplifier. *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 sound level readings.* Choose LEVEL SETUP. Set all channels for equal sound intensity, using the 80 dB volume range setting on the meter. Individual speaker volume settings have a plus or minus 1/2 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 ~80 dB for each channel at your favorite listening spot. (Use the remote control Volume +/- to set loudness levels.)

Note: The P-7 will play the Test Tone in each speaker individually if you highlight one during sound level set up, such as Center. If you leave the highlight at Test Tone ON, it will switch to each speaker automatically and show an arrow next to the channel presently playing. 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 helpful for setting speakers for correct distances and angles of 'toe in' or the distance from the center speaker to the front speakers in DELAY SET UP.

If the front and center speakers are in an 'arc' shaped array, measure the difference in distance from your listening position to the main and center speakers. Add 1 millisecond delay to the center speaker for each extra foot (30 cm) difference in distance to you. Measuring the distance from the rear speakers to your main listening location will help you set the rear delay as well. *Adjust the delay time to be certain that the sound from the front speakers arrives first. This establishes the 'precedence effect' which makes all the main sound seem as if it is coming from the front of the system, just as visual images are coming from the front. This is very important since it helps to create the illusion that home theater systems are designed to make in your listening room!* If you are closer to the surround speakers, set the delay time to allow the front speaker sounds to arrive first. The default delay setting for Dolby Digital is 15 milliseconds delay, maximum delay is 30 milliseconds. Longer delay settings are available in increments of 1 millisecond additional delay, if needed, to insure correct time alignment in your system.

Turn on the power for your DVD player, open the drawer and insert a DVD disk. Check for a medium volume setting on the P-7 to ensure a not too loud initial setting, and get ready for fun! Select the DVD player input on the

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P-7, press PLAY on the DVD player and enjoy your new audio video surround sound system.

IMPORTANT NOTES ABOUT THE CINEMA P-7:

1) The P-7B balanced version is identical in all respects to the Cinema P-7 version with the added addition of L + R balanced analog inputs and 5.1 or 7.1 balanced analog preamplifier outputs on the rear panel.

2) When an input is selected, the P-7 will look for a digital input signal first. If no digital signal is found it checks the analog audio inputs. If you change the audio/digital output setting of your DVD player from Dolby Digital * to DTS * output the P-7 will automatically switch to DTS decoding mode when the disk is playing.

3) Pressing the round SEL button on the remote control will make the P-7 seek the next active input signal. If no inputs are active, it will briefly state this in the on screen display.

4) If you are playing back a Dolby 2.0 * digital program from a DVD, a digital satellite source or a VHS Hi-Fi video tape recorded in Dolby Surround and played back with a VHS Hi-Fi VCR, the P-7 can use Dolby Pro Logic * decoding to provide surround sound from the source. Dolby Pro Logic decoding will not work with DTS encoded source material. Select PL (Pro Logic) with the MODE button. (Dolby 1.0 = MONO)

5) The MODE matrix surround sound settings for Party, Concert, Natural and Club are for use with stereo music or music video input signals. They will allow the P-7 to offer surround sound modes for signals that normally would be 2-channel stereo only. The MONO setting is for any monophonic input you might choose to playback through your system such as mono DVD movie disks, AM radio for baseball games, news broadcasts, talk radio or other radio events.

6) The Speaker Sound Level Set Up for speaker volume level balance should be done when you are sitting in your favorite viewing location in your sound room.

7) There are 30 different color combinations available for the on screen display in the Cinema P-7. Choose the one that is visually most pleasing or easiest for you to see as the default setting while in DISPLAY SET UP. (The author likes #2!)

8) Buttons on the P-7 front panel duplicate the BASS, TREBLE, MODE and INPUT selection buttons on the remote control.

- Radio Shack is a trademark of the Radio Shack Corporation of Fort Worth, Texas.
- THX is a trademark of Lucasfilm Limited.
- Dolby, Dolby Surround, Dolby Digital, Dolby 2.0 and Dolby Pro Logic are trademarks of Dolby Laboratories.
- DTS is a trademark of Digital Theater Systems, Inc.

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All of us at Cary Audio Design wish to thank you again for choosing our Cinema P-7 to be your surround sound processor preamplifier!

Cinema P-7 Remote Control Information

To use the supplied remote control with the Cinema P-7, **PRESS** the **AVC** button first. Now the function buttons will use remote commands that are set for the Cinema P-7. Some of the buttons on the remote have features that apply more to other items, such as a VCR or a satellite dish. To make this possible the remote has more buttons on it than we need to control the operation of the Cinema P-7. *For example, the TUNING, STATUS, SLEEP and SHIFT buttons are not used with the Cinema P-7.* The THX * button, as of the time of writing this manual, is not functional yet. As a result, the display reads 'future option' when this button is pressed.

We have 10 *assignable inputs* (capable of being renamed or re-mapped to different source signals or components) for audio or video components. We have labeled them FM/AM, Aud 1 through Aud 6, Vid 1 through Vid 3 on the button faces. FM/AM will show TUNER in the 'on screen' display when pressed. ALL these inputs can be renamed or assigned to other inputs with the features in INPUT SOURCE in the SET UP mode of the Cinema P-7. You can use the names we have included or change them to read any name that you prefer. As an example, a DVD input could be labeled as 'DVD D-3' to match the model number of a current Cary Audio DVD player; different inputs could be labeled VCR, Sat, ExtPhn, Cable, etc. (See Initial Set Up instruction sheet with the P-7 for info about on screen set up.)

You may want to add adhesive labels (supplied) next to the following buttons to show their assignment for the following uses:

VID 4 is used to turn the **Bass Mix** feature ON or OFF.

VID 5 is used to turn the **TAPE MONITOR** ON or OFF.

VID 6 is used to turn the **7.1 BYPASS** mode ON or OFF.

A. Cal is used to turn Cinema Equalization (**CEQ**) ON or OFF.

Round buttons:

1 and 6 are used for the **Subwoofer +/-** settings

2 and 7 are used for the **Center** channel +/- settings.

3 and 8 are used for the **Surround** channel +/- settings.

4 and 9 are used for the **Bass +/-** settings.

5 and 10 are used for the **Treble +/-** settings.

DYN only functions with Dolby Digital input signals, causing the late night dynamic compression function to turn on or off. For other format inputs it will cause the display to read 'incompatible signal.'

Custom labeling the inputs in the 'on screen display' is easy and will make it easier for other users to find the input source they are wishing to use with the P-7. Connect the P-7 to a TV, or while reading the front screen display, press the Set Up button. Now you can work your way through the comprehensive functions to familiarize yourself with the complete feature set in your Cinema P-7!

* THX is a registered trademark of Lucasfilm Ltd.



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