



CINEMA D-3

96kHz/24bit D/A CONVERTER

HDCCD DVD PLAYER

OPERATING MANUAL

NOTE:

Before installing your new DVD player, please read this manual carefully, as it will inform you of the specifications, proper installation procedures and operation procedures. Also included in this manual are guidelines on how to properly service and care for your new player. Thank you for buying a Cary Audio Design CINEMA D-3 DVD player!

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HDCCD system manufactured under license from Pacific Microsonics, Inc.

This product is covered by one or more of the following:

| <u>Country</u> | <u>Patent No.</u> |
|----------------|--|
| United States | 5,479,168 5,638,074 5,640,161 5,808,574 5,838,274 5,854,600 5,864,311 5,872,531 |
| Australia | 669114 |

Other patents pending.

Congratulations on your purchase of this high performance CARY Cinema D-3 DVD player. CARY is on the leading edge of research for hi-end digital and analog products. This unit incorporates the latest in audio and video technological developments. Thank you for buying a Cary Cinema D-3 DVD player for your system.

Operating the D-3 Player is a simple procedure. This unit is designed for long term reliability 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 Cary D-3 in operation. The following definitions are applicable to this manual. These definitions must be followed explicitly, for safety's sake.

ATTENTION

WARNING

HAZARD PRESENTS PERSONAL INJURY OR DEATH

Caution

EQUIPMENT DAMAGE MAY OCCUR BUT NOT PERSONAL INJURY

Note

Proper performance of the DVD PLAYER cannot be ensured
if disregarded

Note

To adjust the various audio and video outputs, you must connect the video output from the player to a video monitor to display the ON SCREEN SET UP menu. In order to get the correct audio output settings for your system (including listening to HDCD disks, 2 channel or Dolby Digital DVD disks), use the ON SCREEN MENU. Using the remote control SETUP button, go to the ON SCREEN video menu setup and set the "AUD OUT" to the correct setting for your system usage.

If the D-3 is being used to support a 6-channel amplifier, connect the D-3's "5.1CH SURROUND ANALOG OUTPUT" directly to the 6 channel amplifiers inputs. In this instance, set the "AUD OUT" MODE, in the on screen menu display, to [ANALOG 6 CH] in the ON SCREEN menu.

When the D-3 is being used to support a 2ch amp, connect the D-3's "DOWN MIXED 2CH ANALOG OUTPUT" direct to the 2 channel amplifier's inputs. In this instance, set the "AUD OUT" MODE to [ANALOG 2CH] in the ON SCREEN video menu setup.

SPECIFICATIONS

The following section describes the CINEMA D-3 basic specifications. The specifications are subject to change or improvement without notice or obligation.

1.1 Video Specifications

| | |
|-------------------------|--|
| Playback System | DVD Video/Video CD/CD |
| Video D/A Converter | 10-bit |
| Video S/N Ratio | 78dB |
| Video Signal Resolution | 540 TV Lines (DVD) |
| Signal Format System | PAL (625/50, 525/60) / NTSC (525/60, 625/50) |
| Composite Video Output | 1.0Vp-p (75 Ω) Sync Negative |
| S-Video Output | Luminance Signal: 1Vp-p (75 Ω load) Color Signal: 0.286Vp-p (75 Ω load) |
| Component Video Output | Y Output Level: 1Vp-p (75 Ω load) Cb Output Level: 0.7Vp-p (75 Ω load) Cr Output Level: 0.7Vp-p (75 Ω load) |

1.2 Audio Specifications

| | |
|--------------------------------|--|
| Master Clock Jitter | Below measurable levels |
| Digital Filter | Burr Brown DF-1704E |
| Digital / Analog Converters | (2) Burr Brown PCM1704u (3) Burr Brown PCM1716E |
| Analog Filter | 3 rd Order Bessel |
| Analog Outputs | Balanced XLR, Single - Ended RCA (Front L & R) Single-Ended RCA(Surround L/R, Center and Subwoofer) Single-Ended RCA (Down-mixed 2 ch) |
| Frequency Range | 2 Hz - 22 kHz Fs = 48kHz 2 Hz- 44kHz Fs = 96kHz |
| Amplitude Linearity..... | 0.1 dB (20Hz - 20kHz) |
| Phase Linearity..... | 3°(20 Hz - 20 kHz) |
| Dynamic Range..... | 110dB (1kHz) |
| Signal-to-Noise Ratio..... | 110dB (1kHz) |
| Channel Separation..... | 108dB (1kHz) |
| Total Harmonic Distortion..... | 0.0008% (1kHz) |
| Audio Output Level..... | 2.0Vrms, XLR 4.0Vrms |

1.3 Digital Audio output Specification

| | |
|-------------------|--|
| Coaxial Digital | Dolby Digital/ DTS/ LPCM 200mV RMS(75 Ω) |
| Optical Digital | Dolby Digital/ DTS/ Toslink |
| Balanced XLR | Dolby Digital/DTS/ XLR-3-32 (110 Ω) |
| Power Input | Reconfigured at factory 100-120/200-240 VAC, 50-60 Hz |
| Power Consumption | 33 Watts |

Cautionary Notices when using electronic components

1. If smoke, a strange smell or unusual mechanical sounds come from the player.
2. Water or foreign objects enter into the players' cabinet.
3. Dropping the player or if the cabinet is broken after being dropped.

If any of above happens, do not continue to operate the player, turn it off and unplug it from AC power. Please do not disassemble or try to fix the player yourself, to avoid potentially dangerous voltages or accidents.







Important safeguards and precautions

1. Before operating your DVD player, please carefully read this operation manual carefully and then save it for future reference. It will be useful if you have any problems operating your DVD player in the future.
2. Unplug the unit before cleaning. Wipe it with a lightly dampened cloth.
3. Please do not attempt to install any accessory that is not mentioned in this manual.
4. Please be careful while moving the player to avoid dropping it.
5. The attached AC plug only fits one type of socket, if it doesn't fit the AC outlet please replace the socket. This unit can be used only with the correct, localized, AC power supply as indicated on the rear panel.
6. Do not plug in too many components on one AC outlet socket to avoid fire or electric shock caused by overload.
7. Please unplug the unit during lightning storms or long periods of nonuse.
8. Refer servicing to qualified personnel.

Features

1. Compatible with DVD, Video CD and CD formats
2. Built in Dolby Digital decoder
3. DTS digital output capability
4. HDCD playback function
5. Aluminum front panel with hairline treatment
6. Switchable video output: Y/C, RGB, YUV, VIDEO
7. Digital/Analog audio output:
Digital: coaxial/Toslink/balanced XLR
Analog: 5.1ch surround/2ch stereo

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| Types of playable discs and their marks | Diameter/ Playable sides | Playback time | |
|---|-----------------------------|---|----------------------|
|  | DVD VIDEO | Digital audio Digital video (MPEG 2) | |
| | 12 cm/ single-sided | 1 layer 2 layer | 133 min. 242 min. |
| | 12 cm/ double-sided | 1 layer 2 layer | 266 min. 484 min. |
| | DVD VIDEO | Digital audio Digital video (MPEG 2) | |
|  | VIDEO CD | Digital audio Digital video (MPEG 1) Max. 74 minutes | |
| | 12 cm/ single-sided | | |
| | VIDEO CD single | Digital audio Digital video (MPEG 1) Max. 20 minutes | |
| | 8 cm/ single-sided | | |
|  | CD | Digital audio | |
| | 12 cm/ single-sided |  | Max. 74 minutes |
|  | CD single | Digital audio | |
| | 8 cm/ single-sided |  | Max. 20 minutes |

TYPES OF DISCS THAT CAN BE PLAYED ON YOUR DVD PLAYER

DVD disks, Video CDs and CDs that display the logos shown above can be played back on this unit. For more information on discs compatible with this player, refer to the table.

The disc format logos shown above are found on disc labels or on disc jackets.

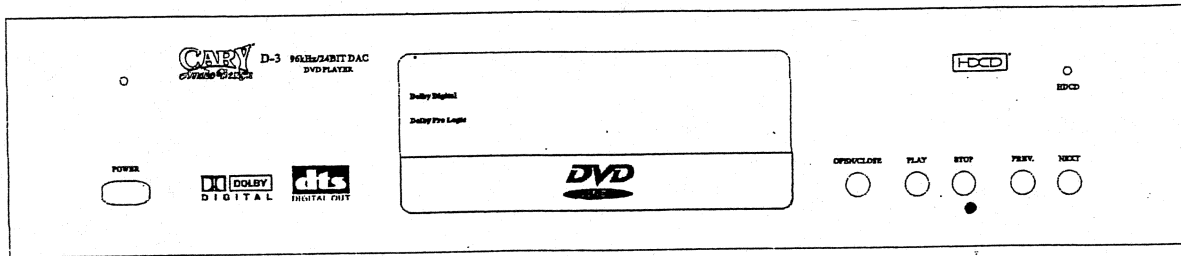
- Discs other than the ones indicated above cannot be played on this unit.
- DVD disks that have incompatible region numbers, DVD-Audio, DVD-ROM, and CD-ROM cannot be played on this unit. The region number of the player can be found on the rear panel.

Main Unit of your DVD Player

1. Display window

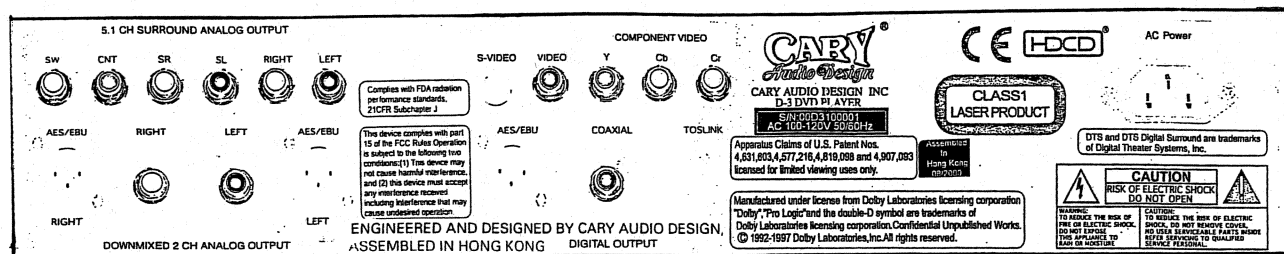
- | | | |
|-----|---|--|
| 1. | VCD | Lights when a VCD disc is loaded. |
| 2. | CD | Lights when a CD disc is loaded. |
| 3. | DVD | Lights when a DVD disc is loaded. |
| 4. | PBC | Lights during video CD with playback control only. |
| 5. | P | Lights when a PAL disc is loaded. |
| 6. | N | Lights when a NTSC disc is loaded. |
| 7. | ▷▷ | Lights when it is in PLAY or SLOW mode. |
| 8. | □□ | Lights when it is in PAUSE mode. |
| 9. | ▷ | Lights when it is in PLAY mode. |
| 10. | PLAY | Lights when it is possible to switch the angle (DVD only). |
| 11. | TITLE | Shows the title number. |
| 12. | CHAPTER | Shows the chapter number. |
| 13. | TRACK | Shows the track number. |
| 14. | REPEAT | Lights during repeat play. “REPEAT ONE”: repeats one chapter or one track. “REPEAT ALL”: repeats all chapters or tracks. “REPEAT A-B”: repeats between A mark and B mark. |
| 15. | DOLBY DIGITAL/ DOLBY PRO LOGIC | Lights during Dolby Digital audio playback. |
| 16. | PROGRAM | Lights during program play. |
| 17. | RANDOM | Lights during random play. |
| 18. | REMAIN | Shows the remain time since the disc started playing. |
| 19. | 16 + | Lights when playing chapters or tracks over 16. |
| 20. | NUMERIC DISPLAY | Shows current playing chapter or track and operation mode of the unit. |

2. Front panel



- (1) Standby indicator
The unit is in standby when it indicate blue, and the unit is on when it indicate off.
- (2) Power button
Press to switch the unit on or to put in standby.
- (3) Display window
Display system information.
- (4) Disc tray
When loading a disc, place in the disc tray with the label side facing up.
- (5) Open/close button
Press to open or close the disc tray.
- (6) Play button
Press to start or resume playback. Press during play back to pause.
- (7) Stop button
Press to stop playback. Pressing once enables playback to resume from a point shortly before the location where it stopped. Pressing twice causes the disc to return to the beginning of the disc if playback starts again.
- (8) Skip (forward) button
Press to advance to next chapter/tracks.
- (9) Skip (reverse) button
Press to go back to previous chapter/tracks.
- (10) HDCD LED
LED above the HDCD logo illuminates automatically when HDCD signal is detected from a disc.

3. Rear panel



1. S-VIDEO OUT jack: If your TV or monitor has an S-video input, excellent video reproduction is possible by connecting the player to your TV or monitor via the S-video jack.
2. COMPONENT OUT jacks: If your projection monitor, projector or similar component has component video inputs, you can produce a higher quality picture on your projection monitor or projector by connecting to the component video outputs on this unit.
3. VIDEO OUT jack: Connect to the video input on a TV or monitor or AV amplifier or receiver with video input capability.
4. DIGITAL OUT jacks (coaxial, toslink, balanced XLR): Use to output the digital audio signal recorded on discs. You can output the digital signal via either the coaxial or the optical output jack to an AV amplifier or receiver.
5. AUDIO OUT (5.1 ch) jacks: Use to output 6 discrete audio channels of decoded digital audio to a receiver or amplifier with discrete audio inputs.
6. AUDIO OUT (2 ch) jacks: Use to output two-channel audio (analog) to the audio stereo inputs on a TV or stereo amplifier. If you are connecting to a receiver that has both digital and analog input jacks for DVD player connection, it may be beneficial to make both connections.
7. AC IN power cord connection terminal: Use to connect the AC power cord to the AC wall outlet.

4. Remote control

1. **OPEN/CLOSE** button
Press to open or close the disc tray.
2. **POWER** button
Press to switch the player on or to put in standby.
3. **UP/DOWN** button
Use to move the cursor through the options on menu screens and to change settings.
4. **LEFT/RIGHT** button
Use to move the cursor through the options on menu screens and to change settings.
5. **ENTER** button
Press to implement settings selected with the cursor control buttons or to set items highlighted in a menu.
6. **SETUP** button
Press when the player is in stop mode to open and close the setup menu.
7. **REV/FWD** button
During playback of DVD and Video CD, press $\triangleright\triangleright$ button to perform fast forward scanning. Press $\triangleleft\triangleleft$ button to perform fast reverse scanning of DVD and Video CD. When a CD is loaded, audio scanning is performed.
8. **PREVIOUS/NEXT** button
During playback, press PREVIOUS to go back to a previous chapter/track and NEXT to advance to the next chapter/track.
9. **NUMBER** buttons
Use to perform direct title and chapter/track searches, and to input numerical values.
10. **OSD** button
Press during playback to display disc information in the On Screen Display. Press repeatedly to display different information.
11. **MENU** button
Use to display or close the DVD menu screen.
12. **GOTO** button
Press to skip to specified title, chapter or time.
13. **CLEAR** button
Use to cancel incorrect input numerical values.
14. **TITLE** button
Press TITLE button to show the title screen.

15. **AUDIO** button
Press repeatedly to select one of the audio languages and/or audio formats programmed on a DVD.
16. **ANGLE** button
Some DVD disks are recorded with various camera angle playback options. Press ANGLE repeatedly to display different camera angles.
17. **SUB-TITLE** button
Press repeatedly to select one of the subtitle languages programmed on a DVD or to turn the subtitle off.
18. **STEP** button
Press STEP to advance DVD disks and Video CDs frame by frame.
19. **PLAY** button
Press to start disc playback.
20. **STOP** button
Press to stop playback. Pressing once enables playback to resume from a point shortly before the location where it was stopped. Pressing twice causes the disc to return to the beginning of the disc when playback starts again.
21. **ZOOM** button
Use to zoom in (3 stages).
22. **REPEAT** button
Press to switch repeat mode.
23. **REPEAT A-B** button
Press at the beginning and end of the section you want to repeat or to mark a location you want to return to.
24. **MUTE** button
Press to mute the audio output.
25. **BOOKMARK** button
Press the BOOKMARK button to enable the bookmark menu.
26. **VOL UP/DOWN** button
Use to adjust the volume level.
27. **SLOW BACKWARD/FORWARD** button
Press SLOW FORWARD button during playback to view slow playback. Press SLOW REVERSE button to view slow backward playback.

BASIC CONNECTIONS

1. Video connection

- Video output

Connect the video input to your TV or other display devices to DVD player Video output RCA connector on the rear panel. (Good picture quality)

- S-Video output

Connect the S-video input to your TV or other display devices to DVD player S-Video output connector on the rear panel. (Better picture quality)

- Component Video output

If your display device supports Component Video terminal, you can also connect your display device to DVD player Component Video output connector on the rear panel. (Best picture quality)

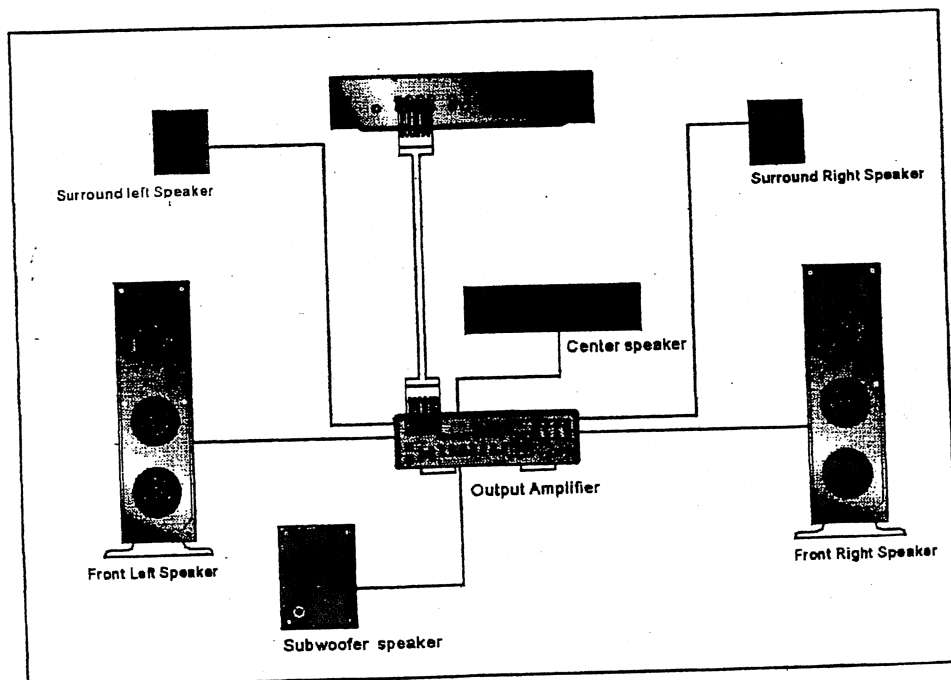
2. Audio connection

- Stereo configuration

Connect your TV stereo audio input (L for left channel and R for right channel audio output) to DVD player stereo audio L and R respectively.

- Analog 5.1 channel output (for built-in DOLBY DIGITAL decoder)

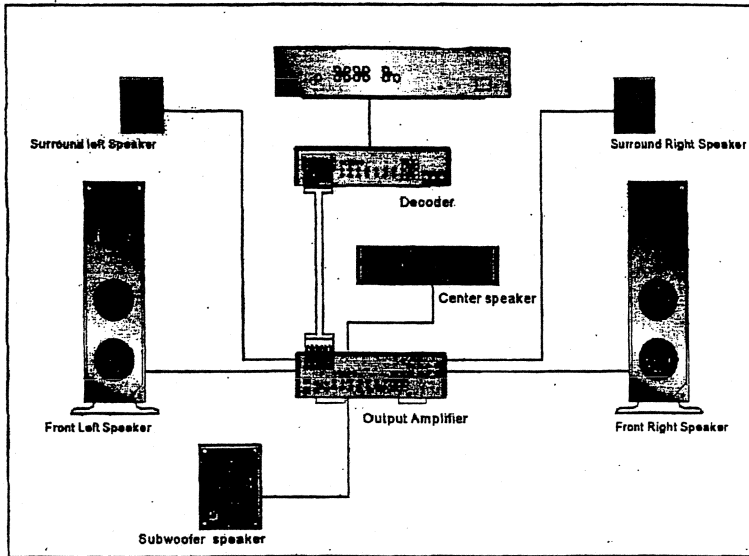
For your convenience this DVD player supports Dolby 5.1 channel audio output directly. However, you still need to connect the 5.1 channel audio output to your audio amplifier as illustrated in the following section :



Picture : Stereo Audio output connection to TV or other Display device.

- Digital audio output

If you have another audio decoder that can decodes Dolby Digital, you can connect SPDIF or optical digital audio output and enjoy the original audio output through your audio decoder.



The above figure illustrates how to connect the Digital Audio Output of the DVD Player to the Digital Input of the external Audio Decoder

DVD PLAYER CONFIGURATION VIA SETUP MENU

The On Screen Displayer (OSD) Setup Menu lets you configure the player's behavior to better suit your system and to work correctly with the components (e.g. TV, receiver) connected to your system. When in STOP mode, invoke the Setup Menu mode by pressing the SETUP button. Pressing the SETUP button a second time, while the Setup Menu is displayed, will turn off the Setup Menu. The OSD Setup menu may only be invoked while the player is displaying the CARY logo screen on the video monitor, i.e. while playback is stopped or while the tray is open or when there is no disc inserted in the tray.

When the Setup Menu is invoked, the On Screen Display (OSD) will display:

| | | |
|-------|-----------|---|
| (OSD) | LANGUAGE: | [ENGLISH] |
| | SUBTITLE: | [AUTO] |
| | AUDIO: | [ENGLISH] |
| | TV TYPE: | [4:3 LB <input checked="" type="checkbox"/>] |
| | TV SYS: | [AUTO] |
| | <EXIT> | <NEXT> (go to next page of set up menu) |

The UP/DOWN ARROW buttons are used to select each setting that you want to change. If the DOWN ARROW is pressed continuously, the OSD will display the NEXT (second) page of settings:

| | | |
|-------|-----------|---|
| (OSD) | AUD OUT: | [ANALOG 2CH] |
| | PASSWORD: | [**** <input type="checkbox"/>] |
| | RATING: | [VIEW ALL] |
| | OSD: | [ON] |
| | TV OUT: | [Y/C] |
| | <BACK> | <NEXT> (go to next page of the set up menu) |

Pressing the DOWN ARROW repeatedly will display a third page of settings:

| | | |
|-------|------------|---|
| (OSD) | VOLUME: | [PLAYER] |
| | SUBWOOFER: | [ON] |
| | PRO LOGIC: | [AUTO] |
| | VFD MODE: | [NORMAL] |
| | <BACK> | (return to the previous page of the setup menu) |

To return to the previous pages of settings, press the UP ARROW repeatedly.

The following subsections explain the available options for each setting. For each setting, pressing ENTER will cycle through each possible option.

Selecting the player's On Screen Display language

Selection of LANGUAGE allows the user to select a preferred language for the OSD menus and messages and DVD 8menus. The following options are available:

ENGLISH = Menu/OSD is in English (factory default),

Note : Some DVD disks may not include the pre-selected language. In this case, the player automatically displays menus consistent with the disc's initial language setting.

Selecting the preferred subtitle language

Selection of SUBTITLE allows the user to select a preferred subtitle language (DVD only). The following options are available:

OFF = Preference is for disabled subtitles.

AUTO = Subtitle preference is the primary language on the disc.

ENGLISH = Subtitle preference is English.

Note : Some DVD disks maybe set to display subtitles in a different language than the one you have selected.

Selecting the preferred audio language.


Selection of AUDIO allows the user to select a preferred audio language (DVD disks only). The following options are available:


ENGLISH = Audio preference is English (factory default).


Note : Some DVD disks may be played in a different language than you selected.

Selecting the TV aspect ratio

Selection of TV TYPE allows the user to select the aspect ratio of their TV (DVD and VCD only). The following options are available:

4:3 LB  = Aspect ratio of TV is 4:3 and letterboxing of wide-screen material is preferred (factory default).

4:3 PS  = Aspect ratio of TV is 4:3 and pan & scan of wide-screen material is preferred.

16:9  = Aspect ratio of TV is 16:9. Both wide-screen and 4:3 content will fill the entire screen.

Note : Most wide-screen DVD disks will not allow pan & scan conversion. If 4:3 PS is selected on these DVD disks, letter boxing will be used instead.

Note : If 16:9 is selected and a 4:3 TV is connected, 16:9 content will appear distorted during playback (objects look thin).

Selecting the TV standard (NTSC or PAL)

Selection of TV SYS allows the user to select the TV standard (DVD and VCD only).

The following options are available:

AUTO = TV system (NTSC/PAL) is automatically set according to the disc being played (factory default).

PAL = TV is PAL. NTSC content is played at PAL resolution and frame rate.

NTSC = TV is NTSC. PAL VIDEO CD content is played at NTSC resolution and frame rate.

Note : Playing PAL DVD disks with TV SYS set to NTSC is not allowed, The OSD will indicate:

(OSD) PAL TO NTSC ERR

Selecting the audio output configuration

Selection of AUD OUT allows the user to adjust the output of the audio on the RCA jacks and S/PDIF digital output to work correctly with the audio equipment (e.g. receiver, speakers) the player is connected to. The following options are available:

ANALOG 6CH = All 6 RCA jacks on the rear panel are connected to a receiver with 6 RCA inputs.

ANALOG 2CH = The L and R RCA jacks are connected to a pre-amp with stereo RCA inputs (factory default).

STEREO PCM = The S/PDIF output is connected to a receiver that accepts PCM S/PDIF.

BITSTREAM = The S/PDIF digital output is connected to a receiver that accepts Dolby Digital, MPEG or DTS S/PDIF.


Note : If BITSTREAM is selected and the audio source is LPCM (DVD), the output on the S/PDIF connector is PCM.


Note : If BITSTREAM is selected and the audio source is audio CD, the output on the S/PDIF connector is PCM.


Note : If ANALOG 6CH is selected, the SUBWOOFER and PRO LOGIC settings take effect.


Selecting a password to lock and unlock the parental control rating

Selection of PASSWORD allows the user to enter a password to lock and unlock the parental control setting into the player. The following options are available:

 (unlocked) = The parental control is unlocked and may be changed in the RATING selection (factory default).

 (locked) = The parental control is locked so no change maybe made to the RATING selection.

Locking the password: Enter four digits using the number keys. Each number entered is overwritten by “*”. Once all four have been entered, press the ENTER button. The “locked” icon  will appear and the password is saved in non-volatile memory.

Unlocking he password: Enter the four digits password using the number keys. Each number is overwritten by “*”. Once all four have been entered, press the ENTER button. If the password was entered correctly the “unlocked” icon  will appear and the password is erased from memory. If the wrong password was entered, no change will occur and the user may attempt to enter the password again.

Note : A password is always 4 digits.

Note : See the explanation on RATING to see how locking and unlocking the password has an effect on the parental control.

Note : Do not forget your password. Currently, there is no way to override the password.

Selecting the parental control rating

Selection of RATING allows the user to set the parental control of the player. The following options are available:



VIEW ALL = Allow any title to play (factory default).

NO ADULT = Only title with a parental control setting of 4 or less are allowed to play (e.g. PG-13, PG, G movies).

KID'S ONLY = Only titles with a parental control setting of 1 are allowed to play (e.g. G movies).

Note : Parental Control functions only if the DVD title has it encoded in its program.

Parental Control does not work for DVD or CD Audio.

Note : RATING can only be changed if the password is "unlocked" (). RATING cannot be changed if the password is "locked" (.

Enabling/Disabling the display of OSD messages

Selection of OSD allows the user to enable/disable the "pop-up" OSD messages (e.g. PAUSE, PLAY). The following options are available:

ON = OSD "pop-up" messages are enabled (factory default).

OFF = OSD "pop-up" messages are disabled

Selecting the video output mode

Selection of TV OUT allows the user to set the video output mode of the player. The following options are available:

Y/C = Video output is set to Y/C. Video signal is output from S-VIDEO OUTPUT jack (factory default).

RGB = Video output is set to RGB. Video signal is output from RGB OUTPUT jacks.

YUV = Video output is set to YUV. Video signal is output from COMPONENT OUTPUT jacks.

Note : There is always video signal output from the composite VIDEO OUTPUT jack.

Selecting the volume level mode

OFF = Fixed standard level output, no remote volume control.

PLAYER = Volume set at full output, can be adjusted (factory default).

CONTROL = Volume initially set low, but it can be adjusted.

Enabling/Disabling the Subwoofer when in ANALOG 6CH mode

Selection of SUBWOOFER allows the user to enable/disable the subwoofer output when AUD OUT is set to ANALOG 6CH. The following options are available:

ON = Subwoofer is on. Bass from center and surround channels is redirected to subwoofer. If the content contains a discrete subwoofer channel, it is also sent to the subwoofer (factory default).

OFF = subwoofer is off. Bass from center and surround channels is redirected to the left and right channels. If the content contains a discrete subwoofer channel, it is discarded.

Enabling/Disabling Pro Logic decoding when in ANALOG 6CH mode

Selection of PRO LOGIC allows the user to enable/disable Pro Logic decoding on two-channel sources to create a multi-channel output when AUD OUT is set to ANALOG 6CH. The following options are available:

OFF = Pro Logic decoding is off. Two-channel sources are output only on the left and right channels.

AUTO = Pro Logic decoding is automatically enabled for Dolby Digital content that indicates that it contains Pro Logic-encoded material. If the content does not contain this indication, no Pro Logic decoding is performed and only two-channel output on the left and right channels is provided (factory default).

ON = Pro Logic decoding is forced on for all two-channel content, regardless if the content is Pro Logic-encoded or not.

Selecting the brightness of the VFD display

In the VFD mode, user can select the preferred brightness of the VFD display in three options:

NORMAL = A normal brightness is set (factory default)

MEDIUM = The brightness is set to 50% of the normal setting

OFF = The VFD display is switched off

BASIC PLAYBACK

Powering on the player, inserting a disc, and playing it

- Press POWER. If there is a disc in the tray, the player will begin to play it once the power is on.
- Press the EJECT button to open the tray to either change the disc or insert a disc
- Once the disc is in the tray, press OPEN/CLOSE to close the tray. Once closed, the player will begin to play it.

Note : Some DVD disks start playback with a menu. See "Menu navigation (DVD)" below on how to navigate menus.

Note : Some VCD 2.0 discs start playback with a menu. See "Menu navigation (PBC)" below on how to navigate menus,

Pausing playback

- Press PAUSE to pause playback (still mode). The sound from the disc is muted during still mode.
- Press PLAY or PAUSE to resume normal playback.

Single stepping

- Press PAUSE to pause playback.
- Press STEP FORWARD to single step forward to the next picture in the video (DVD and VCD only).
- Press PLAY to resume normal playback.

Stopping playback (show the CARY logo screen) and resuming playback after stopping

- Press STOP to stop playback and show the logo screen. The player memorizes the location where playback is stopped.
- Press PLAY to resume playback from the location where playback is stopped (DVD, VCD 1.1, VCD 2.0 with PBC off, and audio CD).

Fast forward/fast backward

- Press FAST FORWARD to fast forward through the disc. The speed can be selected by pressing the button further.
- Press PLAY to resume normal playback.
- Press FAST BACKWARD to fast reverse through the disc. The speed can be selected by pressing the button further.
- Press PLAY to resume normal playback.

Note : The fast forward/backward speed may differ depending on the disc.

Slow motion forward/backward

- Press SLOW FORWARD to play a disc in slow motion.
- Each time the SLOW FORWARD button is pressed, the slow motion speed changes (1/7, 1/6, 1/5, 1/4, 1/3, 1/2, normal speeds).
- Press SLOW BACKWARD to change the speed slower.
- Press PLAY to resume normal playback.

- Press SLOW BACKWARD to play a disc in slow reverse.
- Each time the SLOW BACKWARD button is pressed, the slow reverse speed changes (1/7, 1/6, 1/5, 1/4, 1/3, 1/2, normal speeds).
- Press SLOW FORWARD to change the speed faster.
- Press PLAY to resume normal playback

Menu navigation (DVD)

- Press TITLE to invoke Title Menu (DVD only).
- Press ARROWS to highlight selected Title Menu entry.
- Press ENTER to select highlighted entry. If highlighted entry indicates a title, that title will play from chapter 1.

- Press MENU to invoke the menu screen included on many DVD disks (DVD only).
- Press ARROWS to highlight selected menu entry.
- Press ENTER to select highlighted entry. If highlighted entry indicates a chapter or title, the disc will play from the selected spot.

Menu navigation (PBC)

- Press a button on the number pad to select a track to play (VCD 2.0 only)
- Press ENTER to make the selection.

Note : PBC must be on. See "Using PLAY MODE to enable/disable Repeat, Random, PBC and Programmed Playback modes" to enable/disable PBC support for VCD 2.0 discs.

Note : VCD playback also supports digest menus. See "Digest" to make use of this feature.

Skipping to the next/previous chapter/track

- Press SKIP FWD to skip forward to the beginning of the next chapter (DVD) or track (VCD, audio CD).
- Press SKIP BKWD once to skip backward to the beginning of the current chapter (DVD) or track (VCD, audio CD)
- Press SKIP BKWD twice to skip backward to the beginning of the previous chapter or track.

Note : Playback resumes in normal speed after skipping to the beginning of a chapter.

ADVANCED PLAYBACK

Using GOTO to jump to a specific time, chapter/track or title

- Press GOTO to enable the GOTO Menu. The OSD will display the following:
(OSD) GOTO CHP/TM:
TIME : - : - : -
CHAPTER : [#]
TITLE : [#]
- Press the UP/DOWN ARROWS to select the type of search, either a time search or chapter/track/title search.
- To jump to a spot in time on the disc, select TIME and enter the time in units of h:mm:ss (hours, minutes, seconds) as follows:
(example) Press 1,2,3,4,5, ENTER
(OSD) TIME : 1:23 :45
- To jump to the beginning of a specific chapter/track, select CHAPTER and enter the chapter/track number with the number pad as follows:
(example) Press 8, ENTER
(OSD) CHAPTER : [8]
- To jump to the beginning of a specific title (DVD only), select TITLE and enter the title number with the number pad as follows:
(example) Press 2, ENTER
(OSD) TITLE : [2]

Using A-B to repeat a specific segment (DVD, VCD and audio CD)

- Press A-B once at the beginning of the segment (point A) you want to play repeatedly. The OSD and front panel will display:
(OSD) REPEAT A -
(front panel) A - -
- Press A-B again at the end of the segment (point B) The OSD and front panel will display:
(OSD) REPEAT A-B SET
(front panel) A - - B

Note : The player automatically returns to point A and starts repeat playback of the selected segment (A - B).

- Press A-B a third time to disable A-B playback and allow playback to continue in normal fashion. The OSD will display:
(OSD) REPEAT A-B CANCELED

Using MARK to set bookmarks and have playback jump to the bookmarks

- Press MARK to enable the BookMark Menu. The OSD will display the following:
(OSD) MARKERS: (0:26:31)
MARK 1: * : * * : * *
MARK 2: * : * * : * *
MARK 3: * : * * : * *
(PRESS CLR, ENTER)

- Press the UP/DOWN ARROWS to select which bookmark to set.
- Once the desired point during playback is reached, press ENTER to set the selected bookmark to the current time.
- To jump to a particular bookmark select a bookmark with a time value entered and press ENTER. Playback will jump to that spot on the disc, within 3 seconds for DVD disks and VCD and to the exact spot for audio CDs.
- To clear a bookmark entry, select a bookmark with a time value and press CLR.

Using PGM to enable/disable Repeat, Random, PBC and Programmed Playback modes

- Press PGM to enable the Play Mode Menu. The OSD will display the following:
(OSD) **PLAY MODES**
REPEAT: [OFF]
RANDOM: [OFF]
PBC: [OFF]

<EXIT> <OK> <PROGRAM>

- Press the UP/DOWN ARROWS to select which play mode to select.
- To enable/disable Repeat mode, select REPEAT and press ENTER repeatedly to toggle between OFF, CHAPTER or TITLE. The settings are as follows:

OFF = Repeat mode disabled

CHAPTER = Repeat current chapter. When playback reaches the end of the current chapter, playback jumps back to the beginning of the chapter.

TITLE = Repeat current title. When playback reaches the end of the current title, playback jumps back to the beginning of the title.

- To enable/disable Random mode, select RANDOM and press ENTER repeatedly to toggle between OFF and ON. The settings are as follows:

OFF = Random mode disabled,

ON = Random mode enabled. When playback reaches the end of the current chapter/track, playback jumps to a random chapter/track. The front panel will display the following:

(front panel) RANDOM

- If the disc allows PBC playback control (e.g. VCD 2.0), the PBC option is shown. If the disc does not allow this mode of playback, this option is not displayed. To enable/disable PBC mode, select PBC and press ENTER repeatedly to toggle between OFF and ON. The settings are as follows:

OFF = PBC mode disabled.

ON = PBC mode enabled, PBC-capable discs will play with menu control when the disc is played for the first time after insert on into the player. The front panel will display the following:

(front panel) PBC

- To enable Programmed Playback mode, select PROGRAM and press ENTER. This enables the Program Menu. The OSD will display the following:

```
(OSD)      T C T C T C T C
            ** ** ** ** ** ** ** ** ** ** ** ** ** 
            ** ** ** ** ** ** ** ** ** ** ** 
            ** ** ** ** ** ** ** 
            ** ** ** ** ** ** 
            <BACK> <OK> <CLEAR>
```

- Press the ARROW buttons to select a number.
- Enter a two-digit number from the keypad, referencing a chapter/track to play.

- Repeat this process until the desired numbers of entries are made.
- Select OK, press ENTER and playback will begin with the chapter/track given in first location. Once that chapter/track has finished playing, playback will jump to the chapter/track given in second location and so on, The front panel will display the following:
 (front panel) PROGRAM
- To disable Programmed Playback mode, Press PLAY MODES to enable the Play Mode Menu, select PROGRAM <STOP> and press ENTER. This will stop playback and show the logo screen.

Zooming a picture (DVD, VCD only)

- Press ZOOM during normal, slow or still playback.
- If you further press the ZOOM button repeatedly, the magnification level increases. Three magnification levels are supported. On each press of ZOOM, the OSD will flash the following:
 (OSD) ZOOM 1 (after first press of ZOOM)
 ZOOM 2 (after 2nd press of ZOOM)
 ZOOM 3 (after 3rd press of ZOOM)
 NO ZOOM (after 4th press of ZOOM - picture returns to normal)

- If you press the ARROW buttons, the zoom point shifts, allowing you to pan the zoomed image.

Note : Some discs may not respond to the zoom feature,

Note : Zooming does not work on subtitles or menu screens included on DVD disks.

Note : The magnification even varies depending on the TV TYPE selection in the Setup Menu.

Selecting the camera angle (DVD only)

- Press ANGLE while playing a scene recorded with multiple viewing angles to change the present viewing angle (DVD only). The OSD indicates the current angle selected and the total available angles to select, for example:

(OSD ex.1) (camera icon): [1/9]

(OSD ex.2) (camera icon): [4/6]

The front panel will display the following:

(front panel) ANGLE

Note : The first press will show the current angle selected, Subsequent presses toggle to the next angle.

Note : The front panel will light its camera icon while angle changes are available

Note : Some DVD disks allow you to change the angle only via the disc menu.

Note : When you turn on the player or replace a disc, the player returns to the default angle.

Selecting the audio language (DVD only)

- Press AUDIO during playback to change the audio language (DVD only). The OSD indicates the current setting, giving the language (first 3 letters), audio type and number of channels, for example:

(OSD ex.1) AUDIO: [ENG DOLBY DIGITAL 6CH]

(OSD ex.2) AUDIO: [FRE DOLBY DIGITAL 2CH]

(OSD ex.3) AUDIO: [SPA MPG 2CH]

Note : The first press will show the current language selected, Subsequent presses toggle to the next audio language.

Note : Some DVD disks allow you to change audio selections only via the disc menu.

Note : When you turn on the player or replace a disc, the player returns to the default language.

Selecting subtitles (DVD only)

- Press SUBTITLE during playback to turn on/off subtitles and to change the subtitles (DVD only). The OSD indicates the current setting, giving the first 3 letters of the language selected, for example:

(OSD ex.1) SUBTITLE: [ENG 1]

(OSD ex.2) SUBTITLE: [SPA 2]

(OSD ex.3) SUBTITLE: [OFF]

Note : The first press will show the current subtitle setting selected. Subsequent presses toggle to the next subtitle setting.

Note : Some DVD disks display subtitles automatically, and cannot be turned off even if you set the subtitle function to off. During some scenes, the subtitles may not appear immediately after you turn them on. Some DVD disks will allow you to make subtitle selections and turn subtitles on or off only via the disc menu. When you turn on the player or replace a disc, the player returns to the default setting.

Using DISPLAY to view time, chapter/track and title information

- Press DISPLAY once for the OSD to display the amount of time played and the remaining time to be played on the disc. For example, the OSD may display:

(OSD ex.) 0:07:19 1:26:44

- Press DISPLAY a second time for the OSD to additionally display the current chapter (DVD) or track (VCD/SVCD/CVD, audio CD) and the total number of chapters or tracks. Also displayed (for DVD only) is the current title and total number of titles. For example, the OSD may display:

(OSD ex.) DVD 0:07:19 1:26:44
 CHAPTER: 4 TOTAL: 36
 TITLE: 1 TOTAL: 7
 AUDIO: [1 ALANOG 6 CH]
 SUBTITLE: [ENG 1]
 ANGLE: [NONE]

- Press DISPLAY a third time to make the OSD disappear.

Digest (VCD only)

- Press MENU during playback to invoke the digest function. The player will fetch an image at the beginning of each track and display them in a 3x3 grid format on the screen with numbers indicating each track. Up to 9 track images can be displayed.
- If the disc has more than 9 tracks, press SKIP FWD to display up to 9 more tracks. Press SKIP FWD and SKIP BKWD as necessary to show all the tracks.
- To select a track, press the ARROW buttons to highlight the desired number or press the 4 keys on the remote.
- To play a selected track, press ENTER. Playback begins at the start of the selected track.

Maintenance

- Be sure to turn the unit off and disconnect the AC power cord before servicing the unit. Wipe the player with a dry soft cloth to dust or clean it. If the surfaces are extremely dirty, wipe it clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe it again with a dry cloth. Never use alcohol, benzine, thinner, cleaning fluid or other harsh chemicals. We don't recommend compressed air to remove dust.

Break-In Period

The micro-components, capacitors and output transformers take approximately 100 hours of music playing to fully settle in for peak performance. The D-3 will seem OK sounding right out of the box. However, after the first couple of hours you will notice increased depth and tighter bass. This break-in period contradicts engineering theory, but is true with most High PERFORMANCE audio and video equipments.

WARNING

MAKE SURE PLAYER IS UNPLUGGED FROM AC MAINS BEFORE SERVICING

Service and Care

D-3 Care and Cleaning

- The housing and front of the D-3 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 D-3 is operated and by operating environment cleanliness.

Factory Service

- Careful consideration has been given to the design of your D-3 DVD Player to keep maintenance problems to a minimum. Any problems or requests for service should be referred to our Customer Service Department at our customer service phone number 1-919-481-4494. DO NOT return the D-3 to the factory without a return authorization number (RMA) from the Customer Service Department.
- Cary Audio Design, Inc. will assume no responsibility if the shipping company refuses to pay a 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.

WARNING !!

MAKE NO ATTEMPT TO SERVICE THE D-3 WITH THE BOTTOM PLATE REMOVED. CONTACT WITH THE AC POWER SUPPLY SECTION FOUND IN THE UNIT CAN BE FATAL!! UNPLUG THE AC POWER PLUG FROM THE WALL BEFORE SERVICING THE PLAYER.

CAUTION !!

NEVER REMOVE / INSERT PLUG WHEN UNIT IS 'ON' OR THE AC POWER SWITCH IS IN THE 'ON' POSISTION.

!! PLEASE OBSERVE THE SAFETY DIRECTIONS IN THIS MANUAL!!

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 or workmanship for:

Digital Products : **One (1) year from original date of 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 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 within 30 days of purchase.
- (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 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 does 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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This warranty gives legal rights and you may have other rights, which vary, from state to state.

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