



CINEMA DVD-6


192kHz/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 DVD-6 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.

WARNING:

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

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRI



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




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

Important Safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
6. **Attachments** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
7. **Water and Moisture** – Do not use the appliance near water –for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories** – Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING



S3125A

10. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 5 cm (2 in.) and an opening behind the appliance.

11. **Power Sources** – The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

12. **Grounding or Polarization** – The appliance may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. **Lightning** – For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
15. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Object and Liquid Entry** – Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
17. **Servicing** – Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. **Damage Requiring Service** – Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the appliance,
 - C. If the appliance has been exposed to rain or water,
 - D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation,
 - E. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance exhibits a distinct change in performance – this indicates a need for service.
19. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. **Safety Check** – Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
21. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Precautions

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

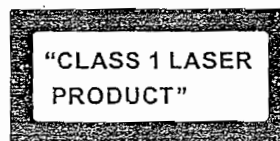
CAUTION:

VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The label on the right is applied on the rear panel



1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet,
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration. According to their regulations 21 CFR section 1002.30, all manufacturers who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

FCC INFORMATION FOR USER

CAUTION:

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

NOTE:

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Specifications

The following section describes the CINEMA DVD-6 basic specifications. The specifications are subject to change or improvement without notice or obligation.

Video Specifications

Playback System	DVD Video/Video CD/CD/DVD-RW/DVD+RW/CD-RW
Video D/A Converter	10-bit/54mHz
Video S/N Ratio	78.5 dB
Video Signal Resolution	540 TV Lines (DVD)
Signal Formal System	PAL (625/50, 5225/60) / NTSC (525/60, 625/50)
Composite Video Output	1.0Vp-p (75Ω) Sync Negative
S-Video	Luminance Signal : 1Vp-p (75Ω load) Color Signal : 0.286Vp-p (75Ω load)
Component Video Output	Y Output Level : 1Vp-p (75Ω load) Pb Output Level : 0.7Vp-p (75Ω load) Pr Output Level : 0.7Vp-p (75Ω load)

Audio Specifications

Master Clock Jitter	Below measurable levels
Digital / Analog Converters	(3) Burr Brown PCM1738u
Analog Filter	3rd Order Bessel
Analog Outputs	Ended RCA (Front L & R) Single-Ended RCA (Surround L/R, Center and Subwoofer)

Frequency Range	2 Hz - 22KHz Fs = 48KHz 2 Hz - 44KHz Fs = 96KHz
Amplifier Linearity	0.1dB (20Hz - 20KHz)
Phase Linearity	3° (20Hz - 20KHz)
Dynamic Range	117dB (1KHz)
Signal-to-Noise Ratio	117dB (1KHz)
Channel Separation	115dB (1KHz)
Total Harmonic Distortion	0.0004% (1KHz)
Audio Output Level	2.2Vrms

Digital Audio Output Specifications





Coaxial Digital	Dolby Digital / DTS / LPCM 200mV RMS(75Ω)
Optical Digital	Dolby Digital / DTS / Toslink
Power Input	Reconfigured at factory 100-120/200-240 VAC, 50-60Hz
Power Consumption	28 Watts

Notes on Discs

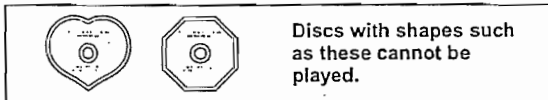
This section shows you how to handle, clean, and store discs.

Playable Discs

This DVD Player can playback the following discs.

	Disc mark	Contents	Disc size
DVD-Video		Audio + Video (moving pictures)	12 cm
			8 cm
DVD-RW			12 cm
			8 cm
Video CD		Audio + Video (moving pictures)	12 cm
			8 cm
CD		Audio	12 cm
			8 cm (CD single)

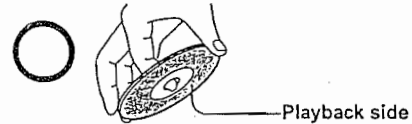
- CD-R and CD-RW discs recorded by CD-DA method can also be played. Some CD-R/RW discs may be incompatible.
- You cannot playback discs other than those listed above.
- You can play discs such as CD-ROM, DVD-RAM, DVD-RW, etc., even if the marks in the above table are labeled on those discs.
- This DVD Player uses the PAL/NTSC color system, and cannot playback video media recorded in any other color system (SECAM, etc.).
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the internal mechanism of the DVD Player.



- Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the DVD Player may become inoperative.

Handling Discs

- Do not touch the playback side of the disc.

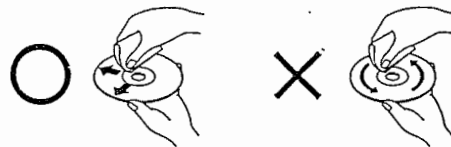


- Do not attach paper or tape to discs.



Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

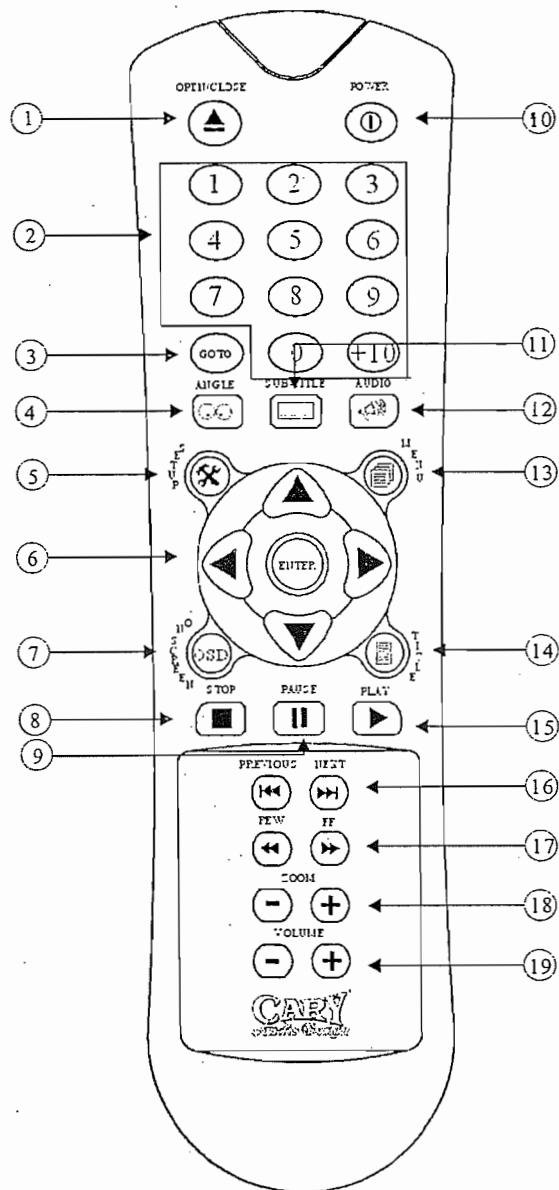
- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Using the Remote Control

This section explains how to get the best use of the remote control.

Using the remote control to operate the DVD player

The following buttons can be used to operate the DVD player.



- ① **OPEN/CLOSE**
Press to open or close the disc tray
- ② **Number buttons**
- ③ **GOTO**
Press to skip to specified title, chapter or time
- ④ **ANGLE**
Press to change the camera angle during DVD multi-angle scene playback
- ⑤ **SETUP**
Press to display (or exit) the on-screen
- ⑥ **ENTER & UP/DOWN/LEFT/RIGHT**
Use to navigate on-screen displays and menus.
Press ENTER to select an option or execute a command
- ⑦ **OSD DISPLAY**
Press to display information about the disc playing
- ⑧ **STOP**
Press to stop the disc (you can resume playback by pressing (play))
- ⑨ **PAUSE**
Press to pause playback; press again to restart
- ⑩ **POWER**
Press to switch the player on or into standby
- ⑪ **SUBTITLE**
Press to select a subtitle display
- ⑫ **AUDIO**
Press to select the audio channel or language
- ⑬ **MENU**
Press to display the top menu of a DVD disc
- ⑭ **TITLE**
Press to display a DVD disc menu, or the Disc Navigator if a DVD-RW, CD, Video CD or Mp3 disc is loaded
- ⑮ **PLAY**
Press to start or resume playback
- ⑯ **PREVIOUS / NEXT**
Press to jump to the start of the previous / next chapter / track
- ⑰ **REVERSE / FORWARD**
Press to reverse / forward slow motion playback, frame reverse / advance and reverse / forward scanning.
- ⑱ **ZOOM +/- BUTTONS**
Press to enlarge and reduce the screen image.
- ⑲ **VOLUME**
Press to adjust the volume

Making Connections

To accommodate a wide range of home entertainment systems, this player features numerous connection types for both audio and video, please refer to the instructions on this and the following pages to determine the best possible type of connections for your system.

Before connecting

Refer to the instruction manuals supplied with any and all components that you plan to connect the DVD Player to.

Be sure to turn off the power of all components to be connected and unplug them from the wall outlet before making any connections.

Connect the DVD Player to the TV directly. If you connect the DVD Player to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD Video images are copy protected.

Please note that video connections to a TV or monitor are necessary because some discs require on-screen menu interaction before they can be played.

Connections to a TV

Using the audio / video connection cable

Using the audio video/video cable, make audio connections from the 5.1 CH SURROUND ANALOG OUTPUT L and R jacks to the corresponding audio input jacks on the TV.

In the same manner, make video connection from the VIDEO OUTPUT VIDEO jack to the corresponding video input jack on the TV.

Be sure to set Audio Setup→Speaker Setup Select to "Movie Stereo" using the on-screen setup menu.

Note

Be sure to match the colors of the plugs on the cable with the corresponding jacks on the DVD Player and the TV : yellow for video, red for R (right) audio and white for L (left) audio.

Making Connections

Optional Video Connections

Visible improvement in DVD Video quality can be achieved by making either S-Video or component video connections to a TV or monitor compatible with these of connections.

Note

When either S-Video or component video connection is made, it is not necessary to make composite video connections using the yellow cord of the audio-video cable.

Making component video connections

If the TV or monitor has component video inputs, making this type of video connection will produce the ideal picture quality for the presentation of DVD-Video. Using a component video cable (sold separately), connect the VIDEO OUTPUT COMPONENT jacks to the corresponding component video input jacks on the TV.

Actual labels for component video inputs may vary depending on the TV manufacturer. (E.g. Y, R-Y, B-Y or Y, C_B, C_R)

In some TVs or monitors, the colors levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance. Be sure to set Audio Setup→Speaker Setup Select to "Movie Stereo" using the on-screen menu.

PROGRESSIVE outputs / inputs

Some TVs or monitors are equipped with component video inputs that are capable of reproducing a progressively scanned video signal. Connecting to these inputs allows you to view the highest quality pictures with less flicker.

Interlaced outputs / inputs

Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy higher quality picture playback. In some TVs or monitors, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.

Making S-Video connections

If the TV or monitor has an S-video input, making this type of video connection will produce improved picture quality. Using a S-video cable, connect the VIDEO OUTPUT S-VIDEO jack to the corresponding S-video input jack on the TV. Be sure to set Audio Setup→Speaker Setup Select to "Movie Stereo" using the on-screen menu.

Making Connections

Optional Audio Connections

This DVD Player provides numerous ways to take full advantage of the digital multi channel sound recorded on DVD media.

When listening to CD-Audio

For full enjoyment of CD-Audio media, it is recommended to make connections to the 6-channel ANALOG OUTPUT jacks.

Analog connections

In addition to offering two stereo outputs for connection to a stereo system, two types of multi channel analog outputs allow you to make connections to an AV component that features multichannel analog input for full enjoyment of multi channel DVD-Video.

Making discrete 6-channel ANALOG OUTPUT connections

The discrete ANALOG OUTPUT jacks are intended to deliver up to 5.1 channels of multi channel audio from DVD-Video sources. Connections can be made from the ANALOG OUTPUT FRONT, SURR (surround), CENTER, and SUBWOOFER jacks to the corresponding input jacks on an AV component with multi channel discrete audio input jacks.

Note

To ensure proper delivery of sound, be sure to match the names of the jacks on the DVD Player and the component being connected to.

Making stereo audio connections

By making connections to a stereo system, you can improve the quality of the sound of cinematic presentations as well as make effective use of the DVD Player's ability to playback CDs. Using an audio cable (sold separately), make audio connections from the ANALOG OUTPUT L and R jacks to the corresponding jacks on the stereo component.

Note

Be sure to match the colors of the plugs on the cable with the corresponding jacks on the DVD Player and the stereo component : red for R (right) audio and white for L (left) audio.

Do not make connections to the PHONO or TUNER jacks on the stereo component.

Digital connections

Make digital connections from the DVD Player to an AV component that features digital input capability or one or more multi-channel audio decoders to realize the full cinematic experience made possible by the DVD format. This DVD Player features one set of optical and coaxial digital audio output jacks and can output Dolby digital, DTS and PCM bitstreams. Make connections from the DIGITAL OUTPUT OPTICAL jacks to the digital optical input jack on the AV component using an optical fiber cable (sold separately). Make connections from the DIGITAL OUTPUT COAXIAL jacks to the digital coaxial input jack on the AV component using a coaxial cable (sold separately). It is not necessary to make more than one type of digital connection to a single component. When you are making connections to an amp or receiver that has internal Dolby Digital, DTS, Decoding capabilities.

Getting Started

After making sure that everything is connected properly and that the player is plugged in, press **POWER** on the front panel to switch the player on.
Also, switch on your TV and make sure that it is set to the input you connected the DVD player to.

Switching On

The front panel **POWER** button switches the player on and off. When the player is off, it can only be switched back on using the same front panel button. When the player is on, you can put it into standby using the **POWER** button on the remote control.

Using the on-screen displays

For ease of use, this player makes extensive use of graphical on-screen displays (OSDs). You should get used to the way these work as you'll need to use them when setting up the player, using some of the playback features, such as program play, and when making more advanced settings for audio and video.

All the screens are navigated in basically the same way, using the cursor buttons to change the highlighted item and pressing **ENTER** to select it.

Setting up with the Setup Navigator

Using the Setup Navigator you can make a number of other initial settings for this player.

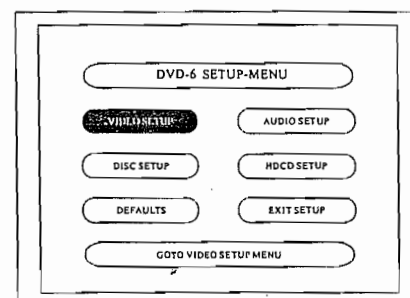
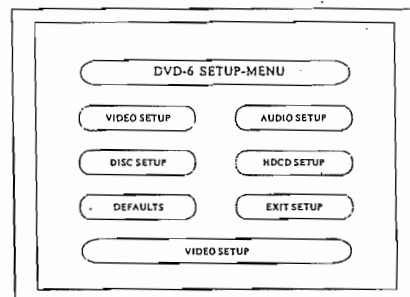
1 If a disc is playing, press stop

Also turn on your TV and make sure that it is set to the correct video input.

2 Press SETUP

The on-screen display (OSD) appears

3 Select Video Setup

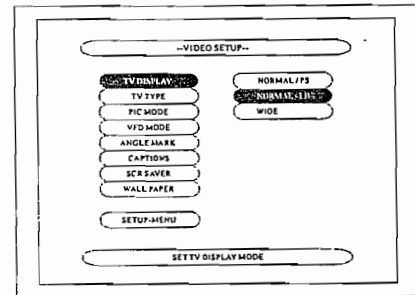


Getting Started

4 Select "TV DISPLAY"

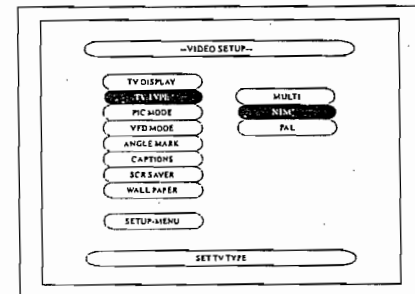
If you have a widescreen TV, select the (Wide) setting - widescreen DVD software is then shown using the full screen area. When playing software recorded in conventional (4:3) format, the settings on your TV will determine how the material is presented - see the manual that came with your TV for details on what options are available.

If you have a conventional TV, select either **NORMAL (Letter Box)** or **NORMAL (Pan&Scan)**. In LetterBox mode, widescreen software is shown with black bars at the top and bottom of the screen. Pan & Scan chops the sides off widescreen material to make it fit the NORMAL screen (so even though the image looks larger on the screen, you're actually seeing less of the picture).



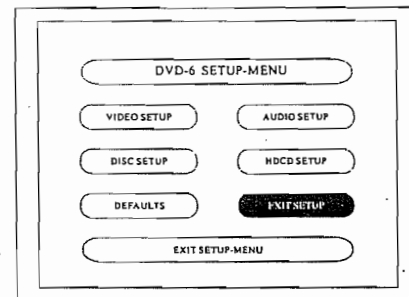
5 Select "TV TYPE"

The default setting of this player is NTSC and unless you notice that the picture is distorted when playing some discs, you should leave it set to MULTI. If you experience picture distortion with some discs, set the TV system to match your country or region's system. Doing this, however, may restrict the kinds of disc you can watch.



6 Select "Exit Setup"

Or press SETUP to quit the DVD-6 setup-menu without making any changes.



Congratulation, first time setup is complete !

PLAYBACK

(1) Playback.

1 Turn on the Power.

- Press the power button, the standby indicator lights turns off and the power turns on.
- When in standby mode, press the POWER button of remote control unit.

2 Press the OPEN/CLOSE button to open the disc tray.

3 Set the disc in the disc tray.

4 Press the OPEN/CLOSE button.

- For many interactive DVDs and video CDs with playback control, a menu screen appears. In this case use the procedure in step 6 to select the desired item.

* Interactive DVDs are DVDs including multiple angles, stories, etc.

5 Press the PLAY button.

6 Use the cursor buttons (▲, ▼, ◀ and ▶) to select the desired item.


- For some discs there is a second menu screen. If so, press the ►► button to display the next menu screen. (See the disc's jacket.)

* The cursor buttons (▲, ▼, ◀ and ▶) do not work for video CDs, Use the number buttons to select the desired item.

7 Press the ENTER button.

- The desired item is selected and playback starts.
- You can return to the menu screen by pressing the MENU/TITLE button while the DVD is playing, though this depends on the disc.
- Press the PLAY button during playback of a video CD to return to the menu screen.

NOTES :

- If  appears on the TV screen while buttons are being operated, that operation is not possible on the DVD-6 or with that disc.
- Set the disc in the disc guide.
- Do not place more than one disc in the disc tray.
- The disc keeps turning while the menu screen is displayed on the TV screen.

PLAYBACK

[2] Stopping Playback

During playback, press the STOP button on the main unit or the remote control unit, playback stops and wall paper is displayed.

<Resume play memory function (DVD only)>

- With the DVD-6, when the STOP button is pressed, that position is stored in the memory. At this time, "PLAY" flashes on the display. When the PLAY button is pressed after pressing the STOP button, playback resumes from the position at which it was stopped. The resume play memory function is cancelled if the disc tray is opened or the STOP button is pressed a second time.
- If you do not want to continue playing the disc or to save electricity press the POWER button on the main unit to turn the power off or press the POWER OFF button on the remote control unit to set the power to the standby mode.

[3] Playing Still Pictures (Pausing)

During playback, press the STILL/PAUSE button on the remote control unit.

- Press the PLAY button to resume normal playback.

[4] Forward/Reverse Searching

During playback, press one of the REW/FF buttons on the remote control unit.

◀◀ : Reverse direction

▶▶ : Forward direction

- When pressed again, the search speed increases (in four steps).
- Variable in 4 steps for CDs, 4 steps for DVD video (movie part), DVD video and video CD discs.
- Press the PLAY button to resume normal playback.

Note :

In some cases the menu screen may reappear when one of the REW/FF buttons is pressed during menu playback on a video CD.

PLAYBACK

[5] Skipping to the Beginning of Chapters or Tracks

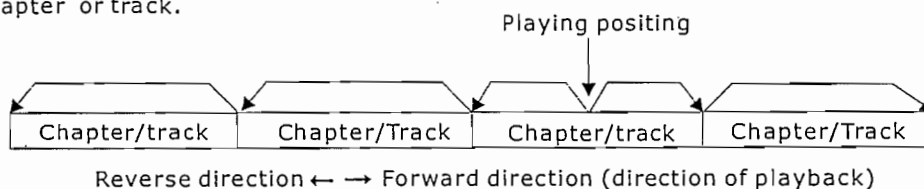
Cueing using the SKIP button

During playback, press one of the skip buttons on the main unit or the remote control unit.

⏮ : Reverse direction (PREVIOUS)

⏭ : Forward direction (NEXT)

- A number of chapters or tracks equal to the number of times the button is pressed is skipped.
- When the skip back button is pressed once, the pickup returns to the beginning of the currently playing chapter or track.



Note :

In some cases the menu screen may reappear when one of the SKIP buttons is pressed during menu playback on a video CD.

Cueing using the number buttons

Press the GOTO MODE button during playback.

- The GOTO mode switches each time the button is pressed.

For DVD video discs : Title __ / __ Chapter / ___

For DVD video discs : Title __ / __ Time __ : __ : __

For CDs and video CDs : GOTO __ : __

*The GOTO mode set by pressing the GOTO MODE button is stored in the memory until the button is pressed again. However, the GOTO mode returns to the default mode when the power is turned off.

- Use the number buttons to input the number to be played.

Note :

Some DVD video and video CD discs do not operate as described in this manual due to the intentions of the discs' producers.

PLAYBACK

[6] Selecting the still image

During playback, press the PREVIOUS or NEXT button on the remote control unit.

- On some discs the image cannot be selected due to the intentions of the discs' producers.

[7] Playing bonus groups

- 1** In the stop mode, press the TITLE button on the remote control unit to set the search mode to "GROUP"
 - 2** Use the number buttons to input the bonus group number.
 - 3** Use the number buttons on the remote control unit to input the password (3 digits), then press the ENTER button.
- Playback starts from the first track in the specified group.
 - In some cases the password must be input at the menu screen. In these cases, follow the instructions on the screen.
 - Once the password is input, the disc can be played as many times as you want until it is removed.
 - If you make a mistake when inputting the password, press the ENTER button on the remote control unit.

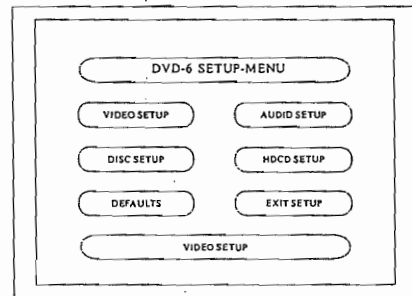
Changing the Default Settings

Make the initial settings to suit your usage conditions before starting playback.
The initial settings are retained until they are next changed, even if the power is turned off.

- 1 Turn on the power.
- Press the power button, the power indicator lights turns off and the power turns on.

- 2 In the stop mode, press the SETUP button.
- The setup (default settings) screen appears.
NOTE: For some menus, the initial values can be changed during playback.

- (1) **VIDEO SETUP**
Use this to set the DVD-6 screen mode.
(TV aspect and TV type.)
- (2) **AUDIO SETUP**
Use this to set the DVD-6 audio output mode.
(Digital and LPCM output settings.)
- (3) **DISC SETUP**
Use this to set the language to be used when playing the disc.
If the set language is not offered on that disc, the discs default language is set.
- (4) **HDCD SETUP**
Use this to set the HDCD Digital Output word and HDCD Digital filter.
- (5) **DEFAULTS**
Use this to reset the factory defaults settings.
- (6) **EXIT SETUP**
Use this to exit the setup.



- 3 Use the ◀ and ▶ cursors buttons to select the desired setting item, then press the Enter button.

- (1) Select "VIDEO SETUP". (See page 16)
- (2) Select "AUDIO SETUP". (See page 19)
- (3) Select "DISC SETUP". (See page 23)
- (4) Select "HDCD SETUP". (See page 26)

* **To exit the setup mode**

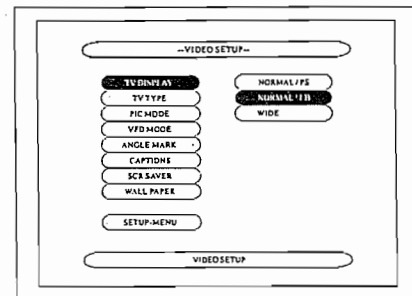
Use the ▼ cursor button to select "EXIT SETUP", then press the ENTER button. It is also possible to quit by pressing the SETUP button on the remote control unit.

Changing The Default Settings

When "VIDEO SETUP" is selected

- 1
- 2 See page 15.
- 3
- 4 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

- (1) **TV DISPLAY**
Use this to set the shape of your TV's screen.
- (2) **TV TYPE**
Use this to set your TV's video format (NTSC, PAL or MULTI).
- (3) **PIC MODE**
The play DVD video, select the desired video mode ("VIDEO", "FILM", "AUTO").
- (4) **VFD MODE**
Use this to select the brightness of the VFD Display.
- (5) **ANGLE MARK**
Use this to set the MULTI-ANGLE scenes on DVD Discs.
- (6) **CAPTIONS**
Use this to set whether of not to display the closed captions recorded on DVDs.
- (7) **SCR SAVER**
Use this to set a constant image is not displayed for a dangerously long time.
- (8) **WALL PAPER**
Use this to select the image to be shown on the screen in the stop mode and CD play mode.



Changing The Default Settings

When "VIDEO SETUP" is selected

5 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

(1) When "TV DISPLAY" is selected :

NORMAL / PS

Select this to play wide DVDs in the pan & scan mode (with the sides of the picture cut off).

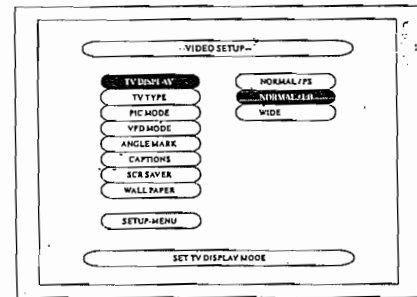
Discs for which pan & scan is not specified are played in the letter box mode.

NORMAL / LB (Factory default)

Select this to play wide DVDs in the letter box mode (with black strips at the top and bottom).

WIDE

Select this to play wide DVDs in the full-screen mode.



(2) When "TV TYPE" is selected:

NTSC (Factory default)

Select this when your TV's video format is NTSC. If NTSC is selected, output format is fixed to NTSC.

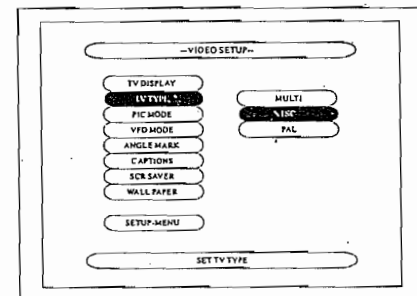
PAL

Select this when your TV's video format is PAL. If PAL is selected, output format is fixed to PAL.

MULTI

Select this when your TV is compatible with both the NTSC and PAL formats.

NTSC signals are output from the video output jacks when discs recorded in NTSC format are played, and PAL signals are output from the video output jacks when discs recorded in PAL format are played.



(3) When "PIC MODE" is selected:

VIDEO

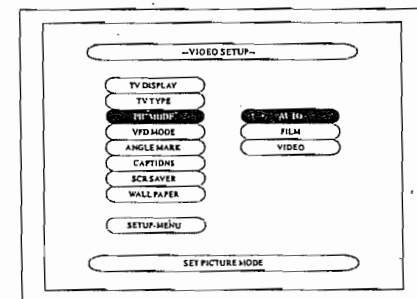
This mode is best suited for playing discs containing video material.

FILM

This mode is best suited for playing discs containing film material or video material recorded with the progressive scan method.

AUTO (factory default)

The set identifies the type of material on the disc being played (film or video) and selects the mode automatically. This mode is suited for playing discs containing both film and video material.



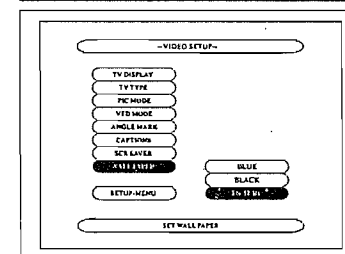
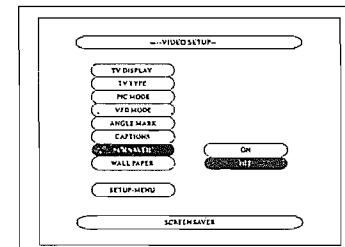
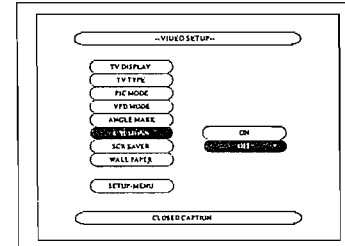
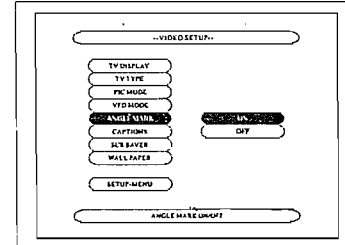
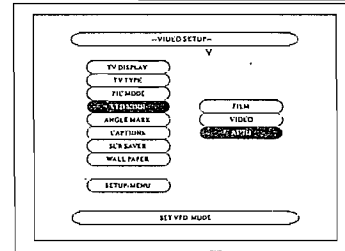
* **NOTE:**

- If stripes of noise appear on the picture or the picture is unclear when playing a specific DVD video disc, try changing the video mode.

Changing The Default Settings

When "VIDEO SETUP" is selected

- (4) When "**VFD MODE**" is selected:
NORMAL (Factory default)
A normal brightness is set.
MEDIUM
The brightness is set to 50% of the normal setting.
OFF
The VFD display is switched off.
- (5) When "**ANGLE MARK**" is selected:
OFF
ON (Factory default)
If you prefer to see the camera icon on-screen during multi-angle scenes on DVD discs. Change this setting to ON.
- (6) When "**CAPTIONS**" is selected:
OFF (Factory default)
Select this when you do not want playing the captions on the screen when playing DVDs containing English captions
ON
Select this to display the captions on the screen when playing DVDs containing English captions.
- (7) When "**SCR SAVER**" is selected:
OFF (Factory default)
ON
If a constant image is displayed on a conventional CRT-Type TV, it can "burn in" leaving a ghost image on the screen. Switch to ON to make sure that a constant image is not displayed for a dangerously long time.
- (8) When "**WALL PAPER**" is selected:
BLUE
Select this to display a blue background on the TV display.
BLACK
Select this to display a black background on the TV display.
PICTURE (Factory default)
Select this to display the wallpaper on the TV display.



*

To Exit the setup mode

Use the ▼ cursor button to select "**EXIT SETUP**", then press the ENTER button. It is also possible to quit by pressing the SETUP button on the remote control unit.

Changing The Default Settings

When "AUDIO SETUP" is selected

- 1
- 2 See page 15.
- 3
- 4 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

SPEAKER SETUP

Use this to adjust for the connected speaker systems.

DIGITAL OUT

Use this to select the digital output's signal format.

DIGITAL CLOCK (48KHZ/96KHZ)

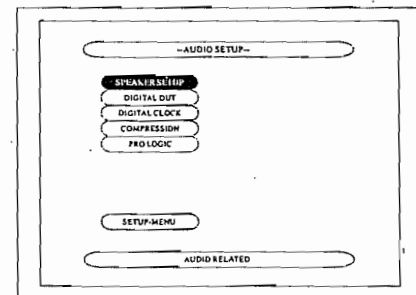
Use this to set the digital Clock output when playing DVDs recorded in linear PCM audio.

COMPRESSION

Use this to set the dynamic range output when playing discs.

PRO LOGIC II

Selection of PRO LOGIC II allows the user to enable /disable Pro Logic II decoding on two-channel sources to create a multi-channel output when SPEAKER CONFIGURATION is set to DOWNMIX OFF.



- ⊙ When "**SPEAKER SETUP**" is selected, use the ▲ and ▼ cursor buttons to select the item to be set, then press the ENTER button.

SPEAKER SETUP PAGE

It will be available. Use the ▲ and ▼ cursor buttons to select the item to be set, then press the ENTER button.

DOWNMIX

Use this to select the multi ch or 2ch of the different speakers.

FRONT

Use this to select the size of speaker.

CENTER

Use this to select the size of speaker.

SURROUND

Use this to select the size of speaker.

SUBWOOFER

Use this to select the subwoofer on or off.

FRONT POSN

Use this to set the front L & R speaker distance.

CENTER POSN

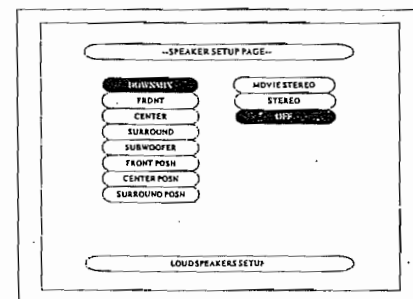
Use this to set the center speaker distance.

SURROUND POSN

Use this to set the surround L & R speaker distance.

TEST TONE

Use this to test the speaker position.



- * To exit the **SPEAKER SETUP PAGE** mode Use the ▼ cursor button to select "AUDIO SETUP" then press ENTER button.

Changing The Default Settings

When "AUDIO SETUP" is selected

- 5 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

- (1) When "DOWNMIX" is selected:

Use the ▲ and ▼ cursor buttons to select the item to be set, then press the ENTER button.

MOVIE STEREO

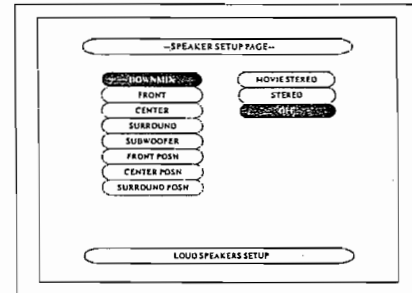
Selected this for systems in which only two speakers are connected.

STEREO

Select this for systems in which only two speakers are connected.

OFF (Factory default)

Select this for systems in which three or more speakers are connected.



- (2) When "FRONT", "CENTER", "SURROUND", "SUBWOOFER" are selected, use the ▲ and ▼ cursor to select the speaker to be set then press the ENTER button.

- The type of speaker used for the front speakers, center speaker, subwoofer and surround speakers can be set. Use the ▲ and ▼ cursor buttons to select the speaker type, then press the ENTER button.

LARGE

Select this when a large speaker is connected.

SMALL

Select this when a small speaker is connected.

NONE

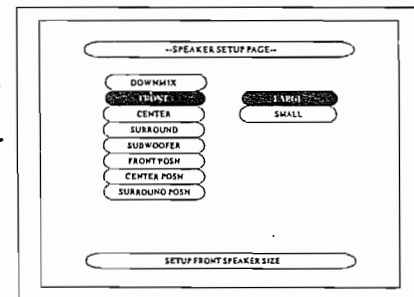
Select this when no speaker is connected.

YES

Select this when a subwoofer is connected.

NO

Select this when no subwoofer is connected.



- (3) When "FRONT POSN", "CENTER POSN", "SURROUND POSN" is selected, use the ▲ and ▼ cursor to set the distance from the listening position to the difference speakers then press the ENTER button.

Use the ▲ and ▼ cursor buttons to set the distance from the listening position to the difference speakers.

0. FT / 0.0 M



30 FT / 9.2 M

- * The distance can be set within the range of 0 to 30 feet (9.2 meters).
- * The maximum difference in speaker distance for which adjustment is possible is 15 feet (4.5 meters).

Changing The Default Settings

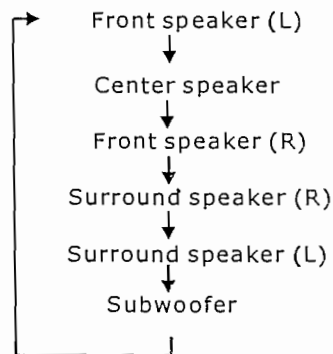
When "AUDIO SETUP" is selected

- (4) When "TEST TONE" is selected, use the ▲ and ▼ cursor buttons to select the speaker to be adjusted.

OFF (Factory default)

ON

Use the ▲ and ▼ cursor buttons to select the test tone, then output the test tone using the procedure described below.



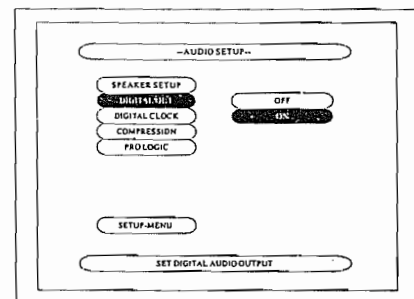
- * To exit the SPEAKER SETUP PAGE mode use the ▼ cursor button to select "AUDIO OUTPUT", then press ENTER button.

- 6 When "DIGITAL OUT" is selected :

OFF

ON (Factory default)

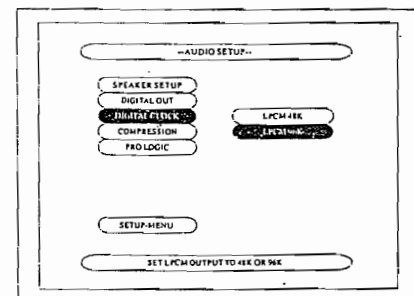
When playing DVDs recorded in Dolby Digital or DTS, bitstream signals are output terminals. When playing DVDs recorded in linear PCM or packed PCM, linear pcm signals are output. Select "ON" when making digital connections to an AV amplifier with built-in Dolby Digital and DTS decoder.



- 7 When "DIGITAL CLOCK" (48KHz/96KHz) is selected :

LPCM 96K (Factory default)

When playing linear PCM or packed PCM DVDs that are not copyright-protected, for 2-channel PCM audio signal up to 96 kHz, linear PCM signal are output as such without being converted from the digital outputs. When playing copyright-protected linear PCM or packed PCM DVDs, in consideration of copyright, no digital signals are output for sources exceeding 48kHz/16 bits.



Changing The Default Settings

When "AUDIO SETUP" is selected

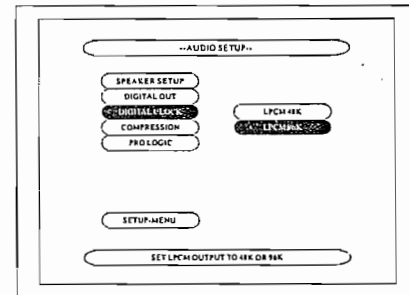
When "DIGITAL CLOCK" (48KHz/96KHz) is selected :

LPCM 48K

Linear PCM and packed PCM signals are converted to 44.1KHz or 48KHz and output. (The PCM digital audio output signals are converted to 48KHz or less in consideration of copyrights.)

When making digital connections to an AV amplifier that is not compatible with 96KHz/88.2KHz signals.

When playing DVDs recorded in linear PCM or packed PCM and the unit is set to output digital and analog audio signals simultaneously, the analog audio output signals are also converted to 48KHz or below, so we recommend setting to "LPCM 96K" and also making analog connections.



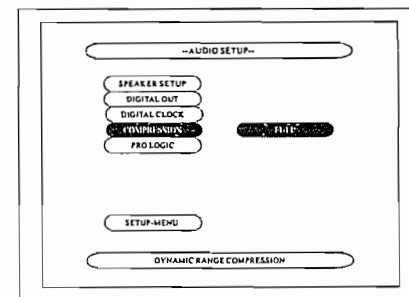
8 When "COMPRESSION" is selected:

OFF

Select this for the standard range.

FULL (Factory default)

Select this to achieve powerful sound even when the volume is low. This setting is suited for watching DVDs late at night with the volume low. (This setting is only valid for DVDs recorded in Dolby Digital.)



9 When "PRO LOGIC" is selected:

OFF (Factory default)

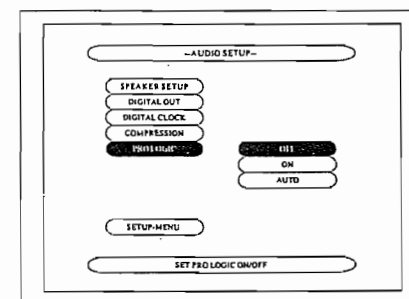
Pro Logic decoding is off. Two-channel sources are output only on the left and right channel.

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 channel is provided.

ON

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



* To exit the audio setup mode

Use the ▼ cursor button to select "SETUP MENU", then press the ENTER button. It is also possible to quit by pressing the SETUP button on the remote control unit.

Changing The Default Settings

When "DISC SETUP:" is selected

- 1
- 2 Read page 15.
- 3
- 4 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

DISC DIALOG

Use this to set the language of the sound output from the speakers.

SUBTITLE

Use this to set the language of the subtitles displayed on the TV.

DISC MENUS

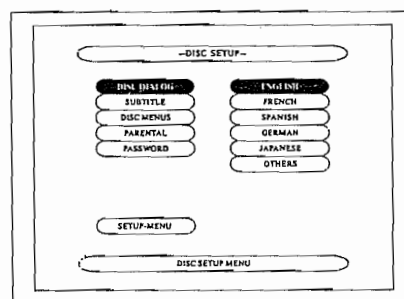
Use this to set the language of the menus recorded on the disc (top menu, etc.)

PARENTAL

Use this to restrict playback of adult DVDs you do not want children to view. Note that even with adult DVDs, viewing cannot be restricted unless the restriction level is recorded on the disc. It is however possible to disable playback of all DVDs.

PASS-WORD

Use this to change the password. The set's password is set to "0000" by default.



- 5 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

- (1) When "DIALOG" is selected:

ENGLISH (Factory default)

Select this when you want to play the DVD with the sound in English.

FRENCH

Select this when you want to play the DVD with the sound in French.

SPANISH

Select this when you want to play the DVD with the sound in Spanish.

GERMAN

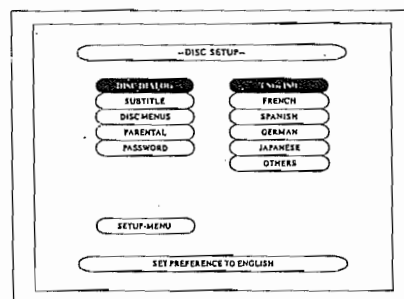
Select this when you want to play the DVD with the sound in German.

JAPANESE

Select this when you want to play the DVD with the sound in Japanese.

OTHERS

Use the number buttons to input the language number.



Changing The Default Settings

When "DISC SETUP" is selected

- 5 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

- (2) When "SUBTITLE" is selected:

OFF

Select this if you do not want to display the subtitles. (For some discs it is not possible to turn off the subtitle display.)

ENGLISH (Factory default)

Select this when you want to play the DVD with the subtitle in English.

FRENCH

Select this when you want to play the DVD with the subtitles in French.

SPANISH

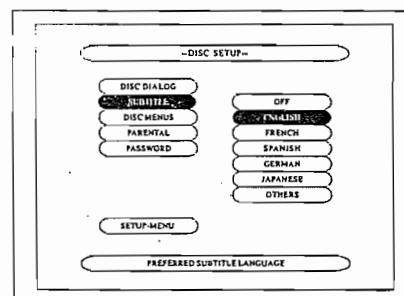
Select this when you want to play the DVD with the subtitles in Spanish.

JAPANESE

Select this when you want to play the DVD with the subtitles in Japanese.

OTHERS

Use the number buttons to input the language number.



- (3) When "DISC MENUS" is selected:

ENGLISH (Factory default)

Select this when you want to display the menus in English.

FRENCH

Select this when you want to display the menus in French.

SPANISH

Select this when you want to display the menus in Spanish.

GERMAN

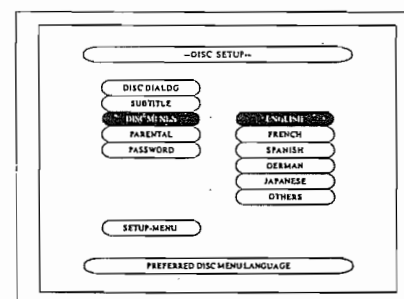
Select this when you want to display the menus in German.

JAPANESE

Select this when you want to display the menus in Japanese.

OTHERS

Use the number buttons to input the language number.



Changing The Default Settings

When "DISC SETUP" is selected

5

(4) When "PARENTAL" is selected:

1

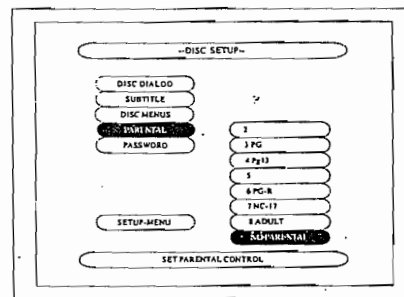
Select this to play only DVDs for children.
(Adult and general audience DVDs cannot be played.)

2 to 8

Select this to play DVDs for general audiences
and children. Adult DVDs cannot be played.

NO_PARENTAL (Factory default)

Select this to play all DVDs.



Use the number buttons to input a 4-digit password, then press the ENTER button.

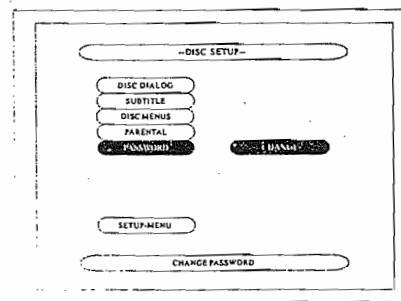
- * The set's password is set to "0000" by default.
- * Do not forget the password.
- * The setting cannot be changed without inputting the correct password.

(5) When "PASSWORD" is selected:

CHANGE

Use the number buttons to input a 4-digit
password, then press the ENTER button.

- * Do not forget the password.
- * The setting cannot be changed without
inputting the correct password.
- * The set's password is set to "0000" by
default.



* **To Exit the SETUP mode**

Use the ▼ cursor button to select "SETUP-MENU", then press the ENTER button.
It is also possible to quit by pressing the SETUP button on the remote control unit.

Changing The Default Settings

When "HDCD SETUP" is selected

- 1
- 2 See page 15.
- 3
- 4 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.
HDCD SETUP
Use this to set the HDCD Digital Output & Digital audio Filter.
- 5 Use the ▲ and ▼ cursor buttons to select the desired setting, then press the ENTER button.

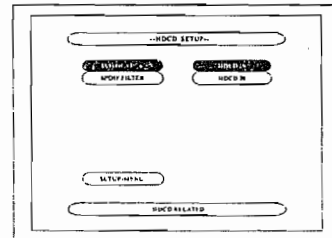
- (1) When "HDCD SETUP" is selected:

DIG OUTPUT

Use this to select the HDCD Digital word output.

SPDIF FILTER

Use this to select the HDCD Digital Audio Filter.



- (2) When "DIG OUTPUT" is selected:

HDCD 16 (Factory default)

HDCD Digital audio word 16 bit signals are output from the Digital out terminal.

HDCD 20

HDCD Digital audio word 20 bit signals are output from the Digital out terminal.

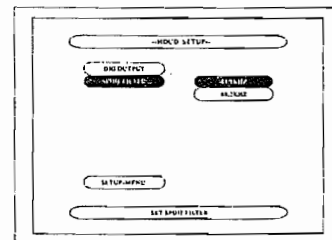
- (3) When "SPDIF FILTER" is selected:

44.1kHz (Factory default)

8 x Oversampling Digital Filter working on Sampling Frequency Clock at 44.1kHz.

88.2kHz

4 x Oversampling Digital Filter working on Sampling Frequency Clock at 88.2kHz.



* **To Exit the HDCD setup mode**

Use the ▼ cursor button to select "SETUP MENU", then press the ENTER button.
It is also possible to quit by pressing the SETUP button on the remote control unit.

Maintenance, Service and Care

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, benzene, 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 DVD-6 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.

Care and Cleaning

The housing and front of the DVD-6 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 DVD-6 is operated and by operating environment cleanliness.

Factory Service

Careful consideration has been given to the design of your DVD-6 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 1-919-355-0010. DO NOT return the DVD-6 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.

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 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 (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 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.

WARRANTY DISCLAIMER

Except for the express warranties stated herein, Cary Audio Design, Inc. disclaims all other warranties including, without limitation, all implied warranties of merchantability and fitness for a particular purpose.

EXCLUSIVE REMEDY

Notwithstanding the foregoing, the purchaser's exclusive remedy for any breach of warranty, express or implied, is limited to the repair or replacement of the defective unit or the refund of the purchase price, at the option of Cary Audio Design, 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.

FOREIGN PURCHASERS

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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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