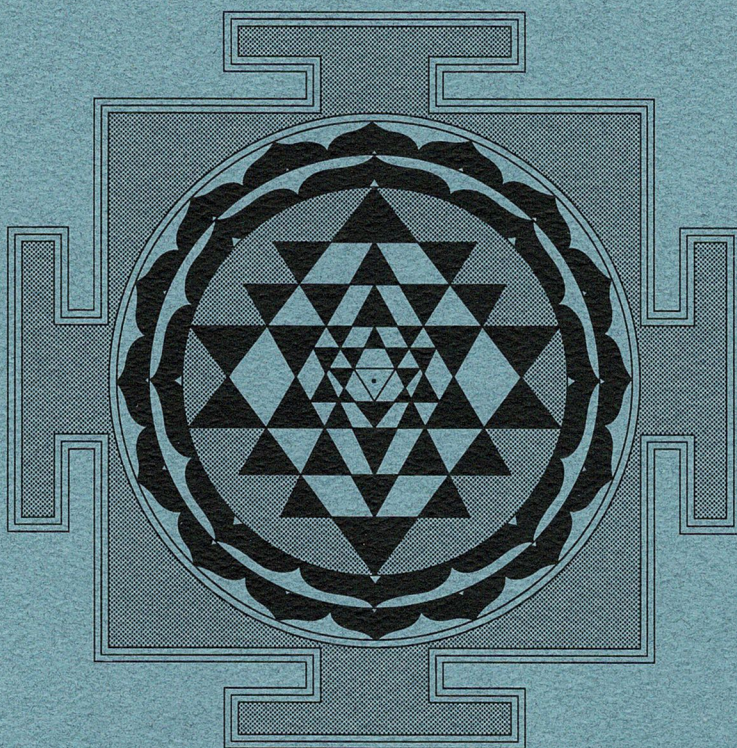


Enlightened Audio Designs

TheaterVision

Audiophile/Videophile Transport



Owner's Manual

Congratulations

on your purchase of the TheaterVision Audiophile/Videophile Transport. The TheaterVision, used in conjunction with a high-quality digital surround sound processor, such as EAD's Theater-Master, combines ultra-high fidelity audio playback of Compact Discs and Laserdiscs with consummate picture quality.

The TheaterVision features state-of-the-art digital electronic circuitry and exceptional mechanical strength and durability. The TheaterVision is carefully engineered and painstakingly handcrafted to provide years of trouble-free performance with little or no maintenance.

Contents

I. Performance Features	4
II. Safety Precautions	6
III. Unpacking	7
IV. Installation and Hookup	8
V. Front Panel Controls	9
VI. Front Panel Display	10
VII. Remote Control	11
VIII. Advanced Features	12
Search Operations	12
Special Playback Features	14
Repeat Playback	18
Program Playback	19
Picture Quality Adjustment	20
Display Switching	22
IX. Troubleshooting	23
X. Servicing	26
XI. Warranty	26
XII. Specifications	27

I. Performance Features

Video:

- Ultra heavy-duty combination CD-Laserdisc transport.
- Gamma-Turn System: Both sides of a laserdisc can be played consecutively without turning the disc over.
- Exceptional mechanical rigidity and immunity to vibration.
- Heavy duty copper shielding of critical video and audio circuitry ensures ultra high-quality picture and audio.
- Plays all NTSC laserdisc formats (5", 8", 12" and thin-type 8") plus compact discs, 5" CDV discs, and 3" CD singles, without an adapter.
- Full digital processing system virtually eliminates video signal distortion. Thanks to the TheaterVision's digital field correlation processor, time base corrector (TBC), and noise reduction (NR) circuitry, the picture has high resolution *and* low noise. The result is a remarkably film-like presentation with the highest possible picture quality.
- Independent adjustment for brightness (Y) and color (C) noise components.
- Two independent S-video outputs driven by a 3D digital Y/C separation circuit. This circuit uses temporal scene filtering to provide superior cross-color reduction with no loss in horizontal, vertical or diagonal picture resolution. Conventional 3-line Y/C separation circuits (2D) cannot provide the same level of picture quality.
- "Theater Mode" for reproducing natural movie theater ambiance: The front panel display window and onscreen display are turned off.
- Full function infra-red remote control with professional videophile features, including jog and shuttle controls to provide high-speed search with single-frame accuracy. Important keys are back-lit for easy operation in the dark.
- Six repeat playback modes: Memory Repeat, A-B Repeat, One-chapter/track Repeat, One-side Repeat, All-side Repeat (for two-side LDs only), Program Repeat (up to 24 chapters/tracks).
- Last Memory Function allows you to watch a laser disc part way through, and then resume watching it later from where you left off.

Audio:

- AC-3 RF Output for use with Dolby AC-3 components* such as EAD's SmartCable™ RF demodulator and TheaterMaster 5.1-channel surround sound processor.
- Three digital audio outputs, including:
 - ST-Glass optical interface
 - 75-ohm coaxial S/PDIF
 - AES/EBU-compatible, 110-ohm balanced
- Proprietary high-speed reclocking circuitry resynchronizes all three digital outputs to achieve extremely low jitter (< 10 picoseconds rms, typical).
- Calibrated digital audio output impedances (75-ohm coaxial; 110-ohm AES/EBU) allows impedance matching to prevent cable reflections and resulting jitter.
- Direct PC-board mounting of coaxial and ST-Glass fiber-optic outputs eliminates internal cable reflections after reclocking circuitry.
- High-performance, electrostatically shielded, low-capacitance digital output transformer achieves higher bandwidth and up to 30 dB better RF isolation than competing designs.
- Analog 2-channel stereo output jacks give access to the LD analog FM audio track(s) and the linear PCM digital audio tracks through the auxiliary built-in 1-bit DACs.
[Note: For highest quality conversion of the linear PCM digital audio tracks, connect an external digital audio processor (such as the EAD DSP-9000 or TheaterMaster) to one of the digital audio outputs.]

*TheaterVision is manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

II. Safety Precautions

1. **Voltage**—Check to see that the AC voltage marked on your TheaterVision conforms to your national standard. *Failure to confirm the appropriate voltage setting can result in damage to the unit.*
2. **Servicing**—Do not attempt to service the TheaterVision yourself. Opening the cover may expose you to dangerous high voltages or laser radiation. Refer servicing to EAD or its authorized representatives.
3. **Water and Moisture**—Do not use the TheaterVision near water; e.g., near a bath tub or laundry tub, in a wet basement, or near a swimming pool.
4. **Cleaning**—Unplug the TheaterVision from AC power before cleaning. Do not use liquid or aerosol cleaners. (Refer to next section for cleaning instructions.)
5. **Object Pokage**—Never insert objects of any kind into the TheaterVision through cabinet openings, as they may contact dangerous voltage points or short-out parts that could result in a fire or electrical shock.
6. **Placement**—Do not place the TheaterVision on an unstable cart, stand, or table. The unit may fall, causing personal injury or serious damage to the unit.
7. **No Projectile**—Do not use the TheaterVision as a projectile in a catapult or similar hurling mechanism. Use of the TheaterVision as a projectile can cause personal injury as well as damage to the transport mechanism, and will void the warranty.
8. **Ventilation**—Adequate clearance is required around the TheaterVision to protect it from overheating. The TheaterVision should not be placed in a built-in installation such as a cabinet or rack unless proper ventilation is ensured.
9. **Moving Parts**—Beware of moving parts. Be careful not to catch fingers in the disc tray section while the tray is being retracted. *Only one disc should be loaded at a time.*
10. **Lightning**—For protection against voltage surges during an electrical storm, or if left unattended and unused for long periods of time, unplug the TheaterVision from AC power.
11. **Transportation**—If the player is to be transported, remove the disc from the disc tray and press the STANDBY button. After the STANDBY indicator is lit, disconnect the power cord from the AC outlet. Repackage the TheaterVision in its original packaging materials.

III. Unpacking

Your TheaterVision package should include the following items:

1. TheaterVision Audiophile/Videophile Transport
2. AC power cord
3. Remote control transmitter
4. Two batteries for remote transmitter (AAA)
5. 75-ohm video cable with RCA plugs
6. S-video cable
7. Owner's manual
8. Warranty/Registration Card

Save all original packaging materials.

After unpacking the TheaterVision, check to see that the AC voltage marked on the unit (100-120 VAC or 200-240 VAC) conforms to your national standard. **Warning:** *Failure to confirm the appropriate voltage setting can result in damage to the unit.*

Fill out and send in the enclosed Warranty/registration card to receive EAD's one-year extended warranty and to ensure notification of future design upgrades and new products as they become available.

IV. Installation and Hookup

Audio:

For high-quality audio playback of compact discs or laserdiscs with linear PCM digital audio tracks, the TheaterVision should be connected to an outboard digital-to-analog converter using one of the three digital output formats provided: ST-Glass, coaxial, or AES/EBU balanced. (Note: All three digital output formats can be used concurrently.)

Superior results can be obtained using the ST-Glass optical interface. For this purpose, EAD offers an optional, high-quality, wide-bandwidth 3-meter glass cable.

If the coaxial output is used, a high-quality, wide-bandwidth 75-ohm cable is recommended. When used in conjunction with the TheaterVision's 75-ohm coaxial digital output and the 75-ohm input of a digital processor, a cable having a characteristic impedance of 75 ohms will reduce cable reflections, which can contribute significantly to timing inaccuracies (i.e., "jitter").

If the AES/EBU balanced output is used, a high-quality, wide-bandwidth 110-ohm twisted-pair cable is recommended. Although not required, the 110-ohm twisted-pair cable may be shielded for extra isolation.

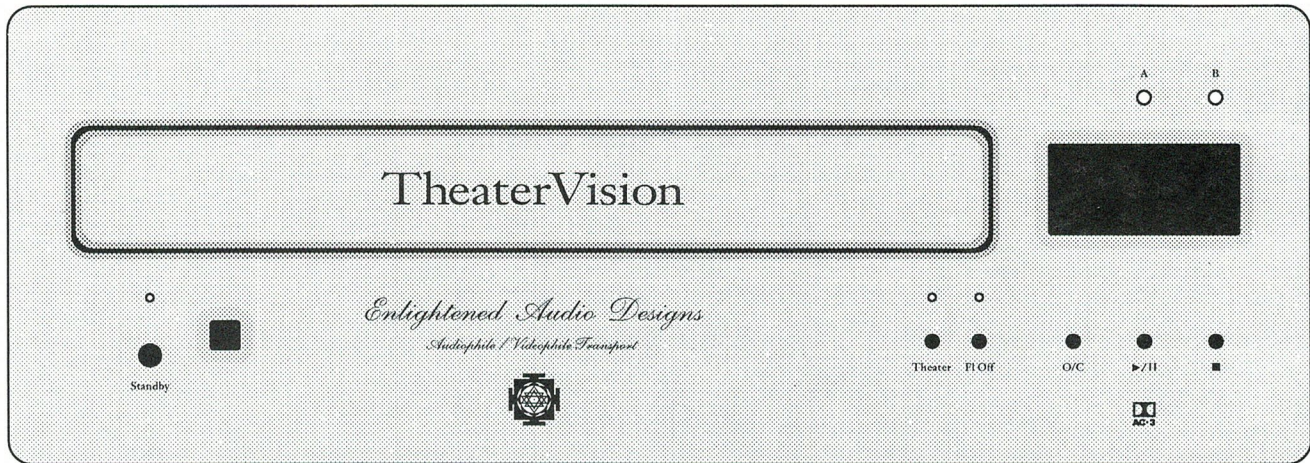
For laserdiscs not provided with digital audio tracks, connect the left and right analog audio outputs (either "1" or "2") to the line-level input of a preamplifier.

For laserdiscs with AC-3 5.1-channel digital audio tracks, the TheaterVision's **AC-3 RF output** should be connected to a Dolby Surround AC-3 processor such as EAD's TheaterMaster. (The TheaterMaster must be connected to the TheaterVision using EAD's SmartCable RF demodulator.) The AC-3 RF output signal can be used concurrently with the linear PCM digital audio outputs.

Video:

The TheaterVision's S-video outputs contain sophisticated 3D digital Y/C separator circuitry which provides excellent picture quality. For some monitors/line doublers equipped with their own sophisticated color separation circuitry, however, use of the composite video outputs (RCA-type connectors) may provide superior results.* You should therefore experiment to see which output provides the best picture quality for your monitor.

*For your convenience, a 75-ohm RCA-terminated video patch cord is provided.



V. Front Panel Controls

Standby/On button

Press this button to turn the TheaterVision ON or OFF (standby). The red indicator above the button is illuminated in standby mode. [Note: It is also possible to turn the unit ON by pressing the Open/Close (O/C) or Play/Pause (▶/||) button.]

Theater Mode button

Pressing this button turns the front-panel fluorescent display off, suppresses the on-screen information display, and blanks the screen while changing disc sides. The front panel display can be turned back on by pressing the FI Off button (see below).

FI Off button

Pressing this button turns the front panel fluorescent display off and on.

Disc Side (A B) buttons (LD only)

To play side A only, press **A** instead of **PLAY**.

To play side B only, press **B** instead of **PLAY**.

Open/Close (O/C) button

Press this button to open and close the disc tray.

Stop (■) button

When this button is pressed during play, the disc rotation stops.

Play/Pause (▶ / ||) button

When this button is pressed after placing a disc on the disc tray, the disc drawer closes and play begins.

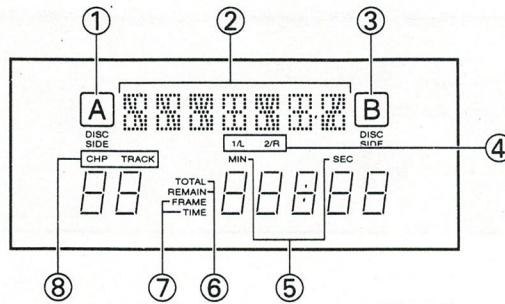
—Pressing this button in STOP mode starts play.

—Pressing this button during play pauses playback (CD), or freezes the picture (LD).

—Pressing this button can also start program play.

—Pressing this button during playback other than normal PLAY mode resumes normal PLAY mode.

VI. Front Panel Display



- ① **Side A indicator**
- ② **Function operation indicator**
Indicates functions and operations. Refer to function explanations for details concerning indications.
- ③ **Side B indicator**
- ④ **1/L channel, 2/R channel indicator**
Indicates audio output channel.
- ⑤ **MIN/SEC indicator**
Indicates play time in minutes and seconds.
- ⑥ **TOTAL/REMAIN indicator**
Indicates remaining play time (REMAIN) and the total play time of the side (TOTAL).
- ⑦ **FRAME/TIME indicator**
Indicates frame number and elapsed play time.
- ⑧ **Chapter/Track indicator**
Indicates chapter number and track number.

VII. Remote Control

POWER button

Press to turn the TheaterVision ON or OFF.

DISPLAY button ... p. 22

EJECT button

Press to stop and eject.

AUDIO button

Successive pressings gives stereo, left channel, right channel, etc, or CX-off (stereo), CX-on (stereo), CX-off (L channel), etc, depending on the type of disc being played ... p. 17

V-DNR 3D buttons ... pp. 20-21

REPEAT buttons ... p. 18

Lighting Button ----->

Illuminates remote control! for about 3 seconds.

Program (PGM) button ... p. 19

Numeric (0-9, +10) buttons ... pp. 12, 19

CLEAR button

Use to clear the repeat, program, or intro scan modes, or for correcting numeric keystrokes.

Chapter/Time (CHP/TM) button ... p. 12

MULTI-SPEED (◀, ▶) buttons ... p. 14

STEP (◀||, ||▶) button ... p. 14

LAST MEMORY button ... p. 14

HILITE/INTRO button ... p. 13

ONE-SHOT MEMORY button ... p. 16

SKIP (◀◀, ▶▶) buttons ... p. 17

SCAN (◀◀, ▶▶) buttons ... p. 15

PLAY (▶) button

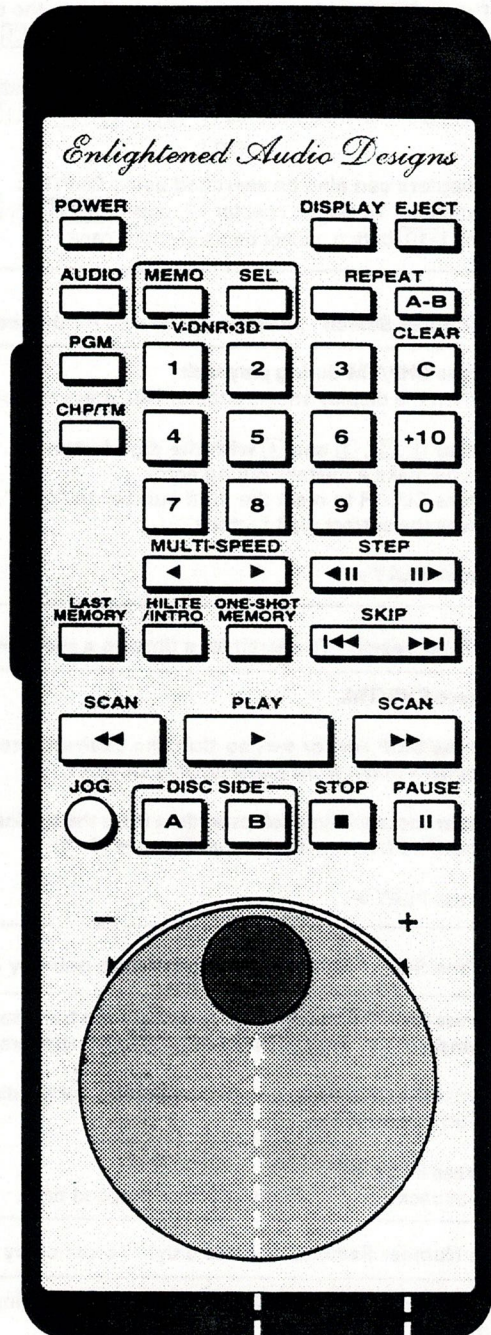
Jog Mode (JOG) button ... p. 15

DISC SIDE (A, B) buttons ... p. 9

PAUSE (||) button

STOP button

Press to stop disc play.



Jog Dial ... p. 15

Shuttle Ring ... p. 15

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK, TIME/FRAME

Chapter Search - To start playback from a specified chapter or track

1. Press the numeric button corresponding to the chapter to be played first.

Example - To play from chapter number 3, press **[3]**

2. To search for a chapter or track number 10 or above use **+10** button.

Example - To enter 30, press **[+10]**, **[+10]**, **[+10]**, **[0]**

OR

3. Chapters can also be searched using **CHP/TM**:

Example - To search chapter 17, press **[CHP/TM]**, **[CHP/TM]**, **[1]**, **[7]**, **[▶]**

The **[+10]** button cannot be used in this case.

Time Number Search - Example : To search for the scene located at time number 12 min. 34 sec (CLV)

1. Press **CHP/TM** during playback.

When the display shows chapter No., press this button.

CAUTION

If a disc does not contain information on the digits of seconds, specify the time number only as far as the minute digits.

2. Enter **[1]**, **[2]**, **[3]** and **[4]** with the digit buttons.

If you make a mistake during entry:

Press **CLEAR** to reset the time number to "0.00", and then press the correct digit buttons.

3. Press **PLAY ▶**.

Track Time Search - To search for a time on a specified track (CD/CDV)

1. Press **CHP/TM**.

2. Press **SKIP ◀◀** or **▶▶** so that the desired track number appears in the front panel display window.

3. Enter the track time (elapsed time from the beginning of the specified track) with the digit buttons (0 - 9).

4. Press **PLAY ▶**.

ABS Time Search (CD only) - To search for a point by designating the elapsed time from the beginning of the disc

1. Press **CHP/TM** so that "Ab" appears in the front panel display window. (On the monitor screen, "ABS" appears.)

2. Enter the elapsed time from the beginning of the disc with the digit buttons (0 - 9).

3. Press **PLAY ▶**.

Playback starts from the specified elapsed time.

Frame Number Search (CAV disc only) - To search by designating the frame number

Any desired frame can be searched for by specifying its frame number.

1. Press **CHP/TM** during playback. When the display shows chapter No., press this button again. "Frame 0" is displayed.

2. Enter the required frame number with the digit buttons (0 - 9).

3. Press **PLAY ▶**.

NOTES:

- The **+10** button does not function.
- If you make a mistake during entry, press **CLEAR** and press the correct digit buttons.

To exit search mode:

Press **CLEAR**.

When **PLAY ▶** on the remote control unit is pressed:

A still frame is displayed (LD or video part of CDV). To start normal playback, press **PLAY ▶**.

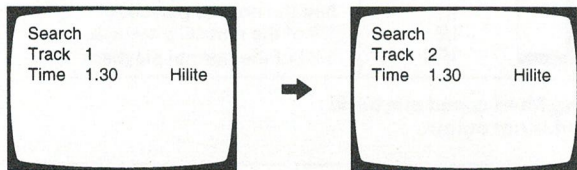
TO SEARCH FOR A PARTICULAR CHAPTER/TRACK - Hi-Lite Scan/Intro Scan

Press HILITE/INTRO.



Hi-Lite scan (CD or audio part of CDV)

Press in stop mode to play an 8-second period from 1 minute 00 seconds to 1 minute 8 seconds of every track in sequence. The "Hilite" is displayed during this operation. When the desired track is played, press ►. The unit enters play mode.

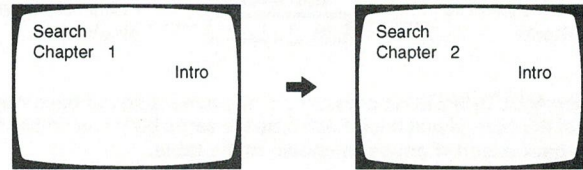


NOTE:

If the button is pressed in play mode, the 8-second Hi-Lite scan starts from that moment. For example, if the button is pressed at 1 minute 30 seconds of track No. 2, 8 seconds from 1 minute 30 seconds to 1 minute 38 seconds of every remaining track will be played.

Intro Scan (LD or video part of CDV)

When HILITE/INTRO is pressed, the beginning of each chapter is played for about 8 seconds. The "Intro" is displayed in the Intro Scan mode.



When the desired chapter or track is played, press ►. The unit enters play mode.

- With CDV, Intro Scan starts with the video part, and then the audio part will be played with Hi-Lite Scan.

NOTE:

With discs which do not contain chapter numbers, Intro scan cannot be operated.

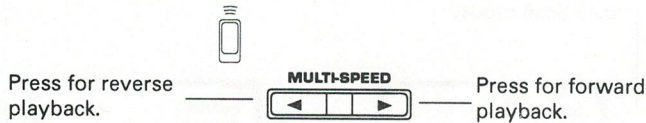
SPECIAL PLAYBACK FEATURES

◀|||▶ Still frame and Frame-by-Frame advance function



Press repeatedly for frame-by-frame advance.

MULTI-SPEED To vary the playback direction or speed



When MULTI-SPEED is pressed once, playback speed becomes 1/8 of the normal playback. Each time the same button is pressed, playback speed changes as shown in the table.

speed display	Playback speed
1/8	1/8 of the normal playback
1/2	half the normal playback
x2	twice the normal playback
1/2	half the normal playback
1/8	1/8 of the normal playback
1/30	1/30 of the normal playback

During Multi-speed playback:
Sound is not output.

Automatic picture stop

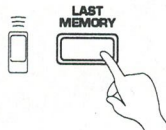
Some of discs contain a recording of a special code called the "picture stop code", which turns normal play or slow play automatically into still frame display.

To cancel the automatic picture stop operation, press and hold ▶/|| for more than 2 seconds until "PSC ON" (picture stop cancel ON) is displayed on the screen. To re-activate, press and hold ▶/|| for more than 2 seconds again until "PSC OFF" is displayed.

Last memory

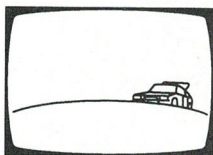
When playback of an LD is stopped, it can be resumed from where it was interrupted.

In standby mode, by pressing LAST MEMORY the power is automatically turned on and playback of the loaded disc is resumed.

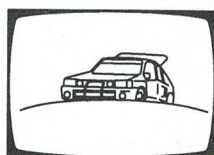


After playback of an LD is stopped by pressing ■, leave the disc in the player. Press LAST MEMORY.

To resume playback from where playback is stopped:



position slightly before the playback is stopped.

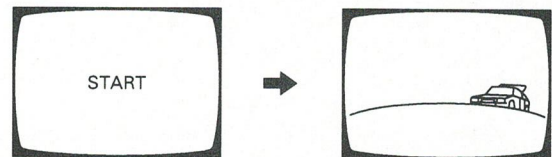


position where playback is stopped.

Press LAST MEMORY once. Playback starts from the point slightly before where ■ is pressed.

Playback of the last played part, repeating normal playback for about 2 seconds and fast-forward playback alternately, then normal playback from the point slightly before where playback is stopped.

Repetition of normal playback for about 2 seconds and fast-forward playback.



Press LAST MEMORY twice.

Playback starts from the beginning of the disc, repeating normal playback for about 2 seconds and fast-forward playback alternately. Then player enters normal playback mode from the point slightly before where ■ is pressed.

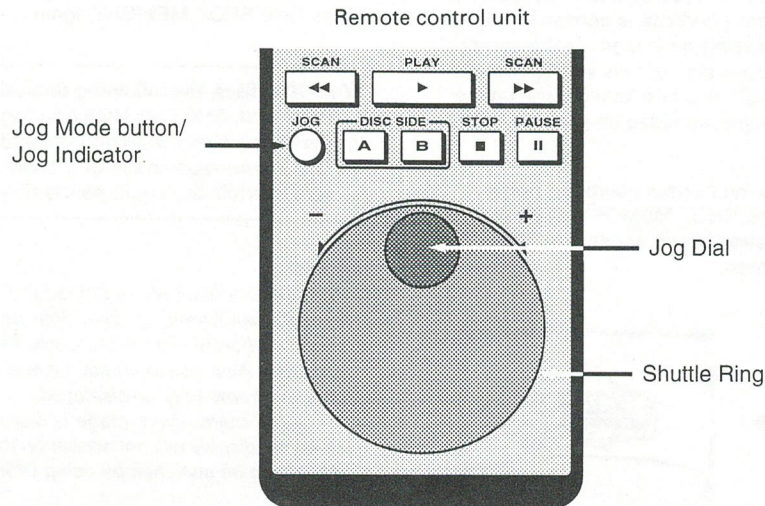
When LAST MEMORY is pressed during fast-forward playback, normal playback starts from the point slightly before where previous playback was stopped.

NOTES:

- Last memory function is carried out only for playback of an LD. With CD or CDV, Last memory does not function.
- If ▶ is pressed after playback is stopped by pressing ■, playback starts from the beginning of the disc.
- Leave the disc in the player after playback is stopped. If the disc is once removed, Last memory does not function.
- Always connect the power cord to the active AC outlet.

Search using the SHUTTLE ring and JOG dial/◀▶ Scan

Using the Shuttle Ring and Jog Dial changes playback speed and direction. This function is useful to search for a desired passage.



Jog dial (LD/video part of CDV)

Playback is advanced according to the speed and direction of rotation of the JOG dial. Both forward and reverse playback is possible, and frames can be advanced at speeds of 1/2 speed, normal speed, and double speed. Rotating the jog dial clockwise forwards playback. Conversely, rotating it counterclockwise left reverses playback. To use the JOG dial on the remote control unit, first press JOG MODE so that Jog indicator lights. During playback of an LD or CDV video part, when the JOG dial stops rotating, the frame is displayed.

Shuttle ring

While rotating the SHUTTLE ring, playback advances or reverses at high speed. There are four scan modes which can be selected with rotational angles of the SHUTTLE RING.

x2 speed : Slightly rotate the SHUTTLE ring. Scan speed becomes about x2 the normal playback speed.

x5 speed : Further rotate the SHUTTLE ring. Scan speed becomes about x5 the normal playback speed.

Low Scan mode : Further rotate the SHUTTLE ring. Scan speed becomes about x10 the normal playback speed.

High Scan mode : Further rotate the SHUTTLE ring. Scan speed becomes about x20 the normal playback speed.

The SCAN can also be used to enter scan mode.



When the button is pressed, scan speed is x10 the normal playback speed for about two seconds and then becomes x20 the normal playback speed.

To switch the screen display, press the DISPLAY button.

- With video part of CDV, High Scan mode cannot be carried out.
- CDs or audio part of CDVs : Sound is heard at low volume level while scanning.
- Others: Sound is muted.

To resume normal playback after using the JOG dial:

Press PLAY ▶.

When not using the JOG dial on the remote control unit, set JOG MODE to OFF.

Although JOG MODE will automatically switch OFF (The Jog indicator goes out) approximately 5 minutes after you stop operating the JOG dial, it is recommended that you set JOG MODE to OFF as soon as you finish using the JOG dial in order to prevent unnecessary battery consumption.

Notes on CAV:

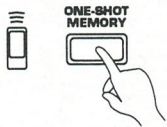
While scanning, noise may occur on the screen. This is not a malfunction.

Notes on CLV:

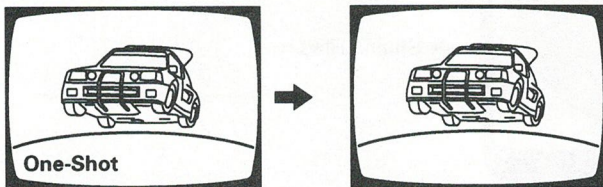
- While scanning, the color of the image may fade out or the image sometimes fluctuates.
- The scan speed is different between inner tracks and outer tracks.

One-Shot Memory

The One-Shot Memory function stores the image of a single frame in the player's memory. When the One-Shot Memory function is activated and playback of the current disc is completed, the stored image is recalled and displayed on the screen. Since the image is displayed even after playback is completed, this function is convenient for displaying an image on the screen while changing discs. This function also allows you to change discs and listen to the audio of a CD or CDV disc while the image remains on the screen as a background video image.



During normal playback, press ONE-SHOT MEMORY when the desired scene appears on the screen.



The frame displayed when the button was pressed is stored in memory. "One-Shot" is displayed on the TV screen for a few seconds.

After playback is finished, the memorized frame appears on the screen. In this state, even if you change discs the scene displayed on the TV screen does not change. To cancel the One-Shot Memory function in order to play the video from another disc, press ONE-SHOT MEMORY again.

With CDV discs, the following operation can also be performed:

1. Press ONE-SHOT MEMORY during playback of the video part.
 2. Perform a direct search to the audio part.
- The memorized image of the video part is displayed on the screen while the audio part is played back.

NOTES:

- With the One-Shot Memory function, since the player memorizes the selected frame by recording its address, a frame which is slightly different than the one you thought you selected may be displayed. Also, if seconds are not recorded on the disc, a completely different frame may be displayed.
- While the memorized image is displayed on the TV screen, the character display will not appear on the screen. The display on the player can be switched by using DISPLAY on the remote control unit.
- With two-sided LDs, if disc side is switched after ONE-SHOT MEMORY is pressed during playback, the One-Shot Memory function will be canceled.
- One-Shot Memory does not function in the Direct CD mode.

Switching audio

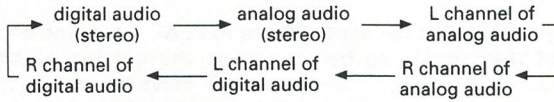
Each time **AUDIO** is pressed during playback, audio output is switched.

For example:

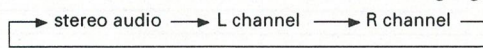
- to hear only the analog audio of a disc with digital audio
- to hear only one channel of stereo disc
- to select audio of the multiplex disc

LD with digital audio

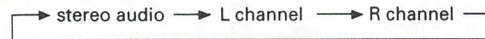
Audio source can be switched between digital audio, analog audio, L channel and R channel of stereo audio.



- With a disc encoded with CX auto-switching signals
 - CX off (stereo) → CX on (stereo) → CX on (L channel)
 - ← CX off (R channel) ← CX off (L channel) ← CX on (R channel)
- With a disc encoded with CX auto-switching signals



LD with analog audio CD or CDV



With a Multi Audio disc (an LD bearing the **digital** mark and the **MULTI AUDIO** mark or the **digital MULTI AUDIO** mark), you can listen to the various audio tracks recorded on the disc by using **AUDIO** to select between the analog and digital tracks, and to select between the left (1/L) and right (2/R) channels.

NOTE:

With AC-3 discs, sound is not heard when the analog R channel is selected.

Discs marked with the **CX** mark

Discs marked **CX** are recorded with the CX noise reduction system for powerful audio reproduction with little noise. (Analog audio only) However, some discs marked **CX** are not encoded with the signals necessary to instruct the unit automatically switch on the CX system. If sound is noisy or undulates when a disc with a **CX** mark is played, press **AUDIO** on the remote control unit.

- **CX** is a trademark of CBS Inc. This player meets the CX EXPANDING SPECIFICATION.

Chapter (Track) Skip - To search for the beginning of a chapter/track

Searching for the beginning of the chapter (track) currently playing.



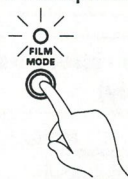
Searches for the beginning of the next chapter (track).

Press a button repeatedly or hold it depressed (only with the remote control unit); the chapters (tracks) will be skipped successively.

- When **SKIP** or **SKIP** is pressed in stop mode, playback starts.

WATCHING A MOVIE DISC - THEATER MODE

Press **THEATER** on the front panel.



The Theater Mode (or Film Mode) indicator will light.

Set to ON in accordance with your tastes, particularly when viewing movie discs.

When the film mode is ON:

- The display in the front panel display window turns off (can be turned on/off using the FL OFF).
- The screen display (see page 25) does not function.

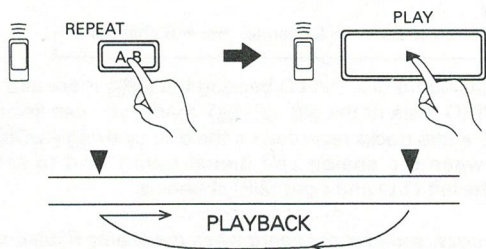
- The screen is blacked (blanked) while changing disc sides.
- The TOC is not read, in order to shorten the side-changing time as much as possible. As a result, random playback cannot be performed, even when the discs contain TOC codes. In addition, the remaining time ABS time and total time displays will not function. (These displays will function normally if the disc is played back once before using the film mode.)
- Press the Film Mode button once more to switch OFF.

NOTE:

When the film mode is ON, the display in the front panel display window will not appear even when the power is turned on. In addition, the player memorizes the ON/OFF condition of the film mode even if the power is turned off, so the display will remain off the next time power is turned on. To turn the display on again, press FL OFF.

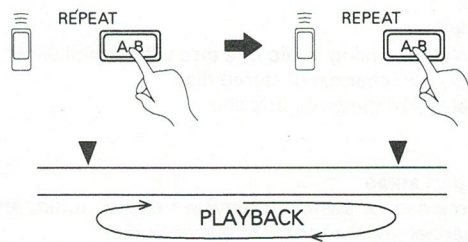
TO REPEATEDLY PLAY A DESIRED PASSAGE - Repeat Playback

Memory Repeat - To specify a point to return to later



Press REPEAT A-B at the point you want to see or listen to again (point A). When you wish to return to point A, press ► on the remote control unit.

A-B Repeat - To repeat a specified section



Press REPEAT A-B at the start point of the section to be repeated. Press REPEAT A-B at the end point of the section to be repeated. Playback returns to the beginning of the section and the section is repeated continuously.

Chapter/Track Repeat - To repeat the current chapter or track



Press REPEAT while the chapter/track to be repeated is playing. When the end of the chapter/track is reached, the player returns to the beginning of the chapter/track and the chapter/track is played back repeatedly.

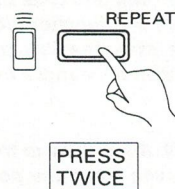
Program Repeat - To repeat a program

With the program repeat function, you can repeatedly play programmed chapters or tracks in their programmed order.

Press REPEAT on the remote control unit while the program is being played.

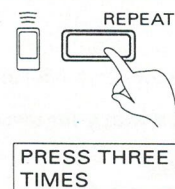
● See page 19 for details on programming.

One Side Repeat - To repeat an entire side of a disc



Press REPEAT twice. When playback reaches the end of the playback side, the player returns to the beginning of the disc and the same side is played back repeatedly.

Two-Side Repeat - To repeat both sides of a disc (for two-sided LDs only)



Press REPEAT three times. When playback of side A finishes, side B is played back, and when playback of side B finishes, side A is played back again.

To exit repeat mode:
Press CLEAR.

To specify a different point in Memory Repeat mode:
Press CLEAR to cancel the previously memorized point, and repeat the same operation as shown above. The previously memorized point is erased and replaced with the new point.

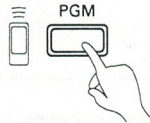
Memory Repeat and A-B Repeat with CDV discs:
These repeat functions can only be carried out within the video part or within the audio part, and cannot be carried out between the two parts.

With LDs which have no chapter numbers:
Chapter repeat cannot be carried out.

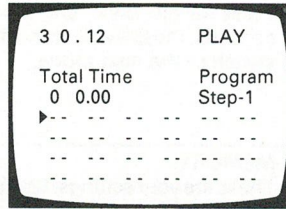
TO PLAY ONLY DESIRED SCENES/TRACKS - Program Playback

Selected chapters (LD) or tracks (CDV/CD) can be played in any desired order (max. 24 chapters or tracks).

1. Press PGM.



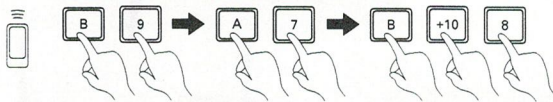
Display with a CD/CDV



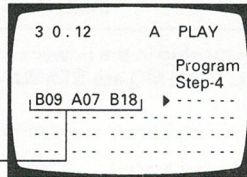
2. Select the desired chapters or tracks.

With two-sided, LDs, first specify side A or side B with DISC SIDE A or B and then enter the number of the desired chapter with the digit buttons.

Example: To program chapter 9 on side B, chapter 7 on side A, and chapter 18 on side B, in that order:



Screen display after programming is completed



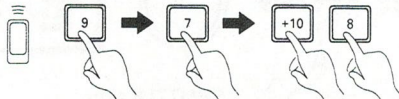
Programmed chapters

With single-sided LDs, CDs, and CDV discs, just enter the number of the desired chapter or track with the digit buttons.

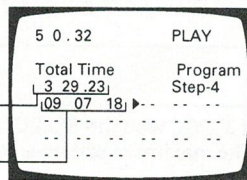
Example: To program CD tracks 9, 7, and 18 in that order:

If you make a mistake during entry:

Press CLEAR and enter the correct number with the digit buttons.



Screen display after programming is completed



Number of programmed tracks and total play time

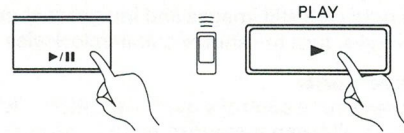
Programmed track numbers

A pause between tracks/chapters can also be programmed by pressing II instead of the digit buttons.

If you make a mistake during entry:

Press CLEAR on the remote control unit and enter the correct number with the digit buttons.

3. Press ►.



To check the program contents

During program playback or in stop mode, press PGM to display the program contents on the monitor screen. When PGM is pressed again, the program contents disappear.

- You can view the state of programming on the monitor screen.

To modify the program contents

To delete or change a programmed chapter/track or pause:

- Press PGM.
- Press ◀◀ or ▶▶ to place the cursor (▶) on the left side of the chapter/track or pause to be changed.
- To delete it, press CLEAR. To replace it with another chapter/track, enter the new chapter/track number with the digit buttons. Press II to enter a pause.
- Press PGM to complete programming. Pressing ► also completes programming and starts program playback with the new program contents.
 - Programmed chapter/track being played cannot be erased or changed.
 - Programmed pause being engaged cannot be erased or changed.

To clear the program playback

Press CLEAR to return to normal playback.

To clear the program contents:

- Open the disc table.
- Press CLEAR while in stop mode.

NOTES:

- If ► is held depressed during Program Playback, the playback position will move to another chapter/track, but when ► is released, the next chapter/track in the program will be played. If ◀◀ is held depressed, the playback position returns to the beginning of the current chapter or track being played, but it will not go beyond it to a previous chapter or track in the program.
- During program playback, ◀◀ and ▶▶ can be used to skip the programmed chapters/tracks or pause.

PICTURE QUALITY ADJUSTMENT (V-DNR 3D)

When playing some LDs, there may be noise or color distortion. 3D digital NR reduces this noise and color distortion. You can independently adjust luminance (brightness) and saturation (color) as desired. This unit also features 3D Y/C separation circuitry. For minimal cross color and improved S/N ratio with still images and images that move very little, turn the shuttle clockwise for increased 3D Y/C separation. For clearer fast moving images, turn the shuttle counterclockwise to move from 3D Y/C separation to 2D Y/C separation.

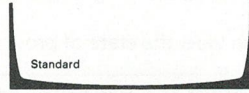
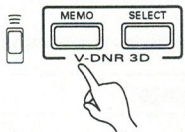
Selecting picture quality

- Select with the remote control's memory button. This unit has three memories. You can memorize up to three picture quality settings.
- When you plug in the power cord and first switch power ON, the setting is STANDARD.

- Press MEMO once, and the current mode is displayed for two seconds. Press the button while the current mode is displayed to switch to the next mode.

STANDARD:

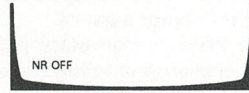
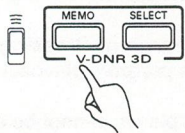
This is the standard (recommended) setting.



Indication is displayed for two seconds.

NR OFF:

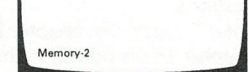
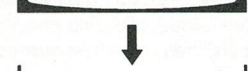
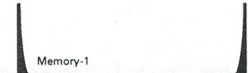
This is the NR OFF setting. Other settings are the same as STANDARD.



Indication is displayed for two seconds.

MEMORY:

These are your settings. Confirm setting adjustments by pressing the SELECT. This puts you in the Picture Quality Adjustment mode.



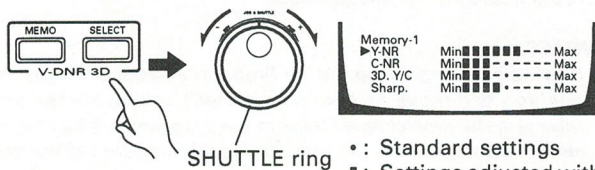
Indications are displayed for two seconds.

- When picture selection is STANDARD with NR OFF, you can confirm settings by pressing the SELECT. (Adjustment is not possible.)

- When you plug in the power cord and first switch power ON, the settings in MEMO are STANDARD.

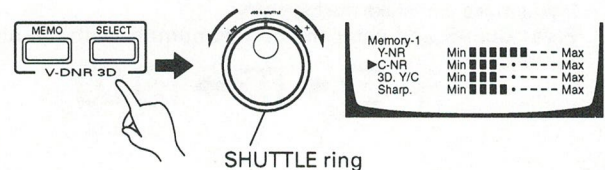
Perform picture quality settings in the Picture Quality Adjustment (MEMORY) mode

Select Y-NR with the SELECT, and adjust with the SHUTTLE ring. You can vary noise reduction for brightness (in 10 steps). At the maximum setting, noise reduction is maximum.

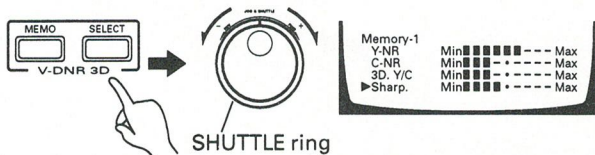


● : Standard settings
■ : Settings adjusted with the shuttle ring

Select C-NR with the SELECT, and adjust with the SHUTTLE ring. You can vary noise reduction for color (in 10 steps). At the maximum setting, noise reduction is maximum.

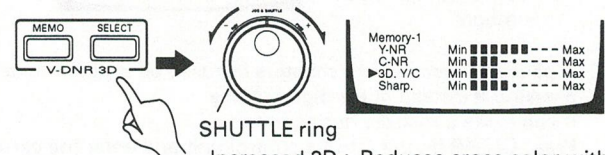


Select Sharp with the SELECT, and adjust with the SHUTTLE ring. At the maximum setting, vertical edges are at their sharpest.



- With video output jack connection, picture quality is changed by Y-NR and C-NR only.
- With S-Video output connection, picture quality is changed by Y-NR, C-NR, 3D Y/C, and Sharp adjustments.

Select 3D Y/C with the SELECT, and adjust with the SHUTTLE ring. The maximum setting is for maximum 3D Y/C separation.



- Increased 3D : Reduces cross color with images that move very little.
- Increased 2D : Assures a clear picture with fast moving images.

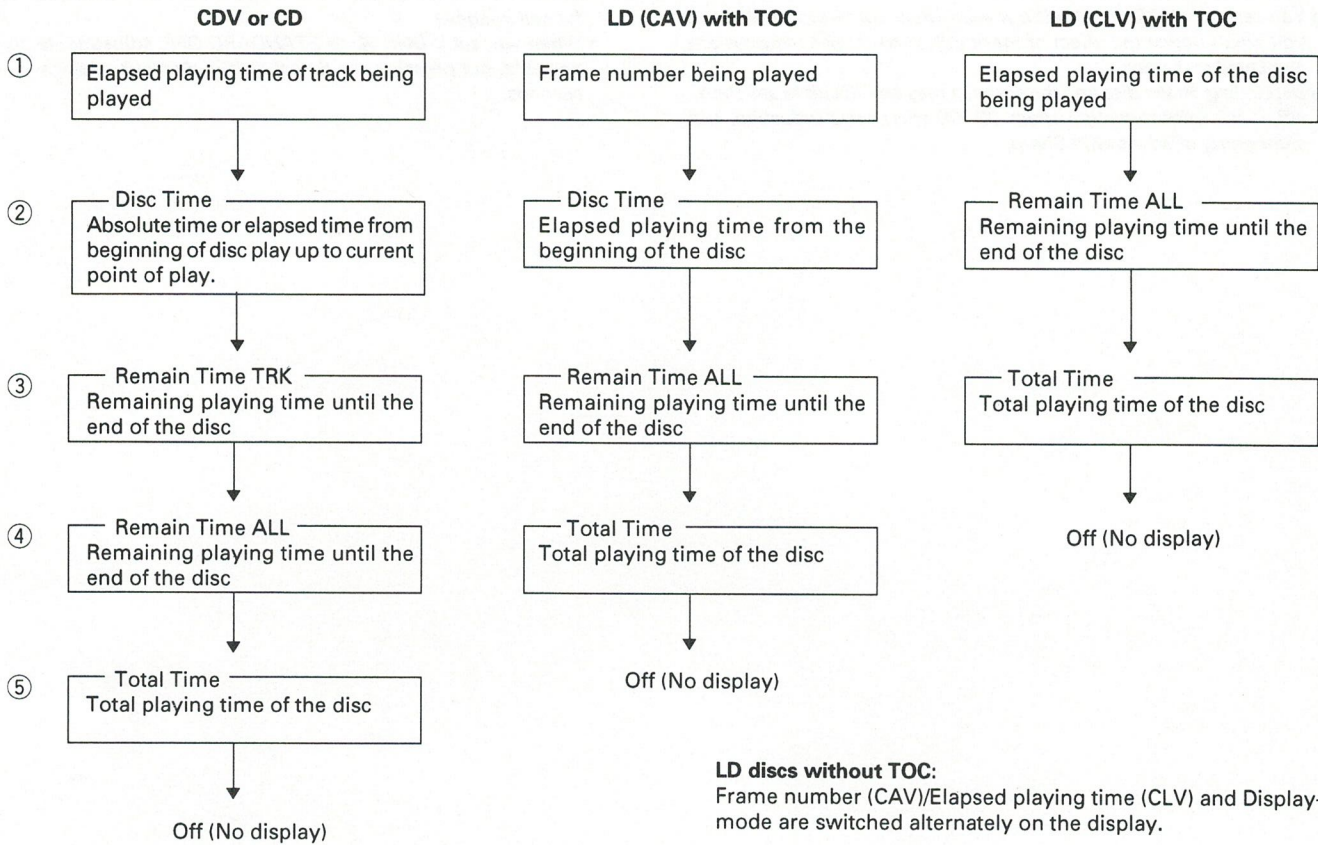
PICTURE QUALITY ADJUSTMENT (V-DNR 3D)

NOTE:

- During play of a CDV's audio part, the selected picture quality settings for the video part are stored in memory.
- Picture quality settings are stored in memory until the power cord is disconnected from the wall socket.
- You can adjust V-DNR 3D settings even when not playing a disc, but you won't notice the effect of these adjustments until images are displayed on screen.
- Depending on the disc and the scene, it may be difficult to see the Y-NR, C-NR noise reduction effect, 3D Y/C cross color reduction, and sharpening of edges with Sharp.
- With pictures of still images, Y-NR and C-NR are OFF, regardless of settings, and 3D Y/C is set to minimum. Which means that adjustments for still images will change setting values (displayed values) but not picture quality. (CAV disc Y-NR, C-NR, Sharp are also effective for still images.)
- When you set V-DNR 3D to STANDARD OFF, adjustments are not possible, but pressing the Select button displays settings for two seconds.

DISPLAY SWITCHING

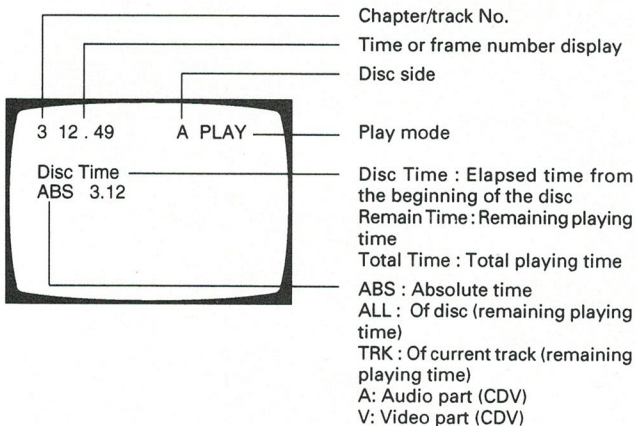
DISPLAY allows you to display informations including the play mode and disc playing time on the screen. Each press of DISPLAY switches the screen display as shown below.



LD discs without TOC:

Frame number (CAV)/Elapsed playing time (CLV) and Display-off mode are switched alternately on the display.

The actual screen display is as shown below.

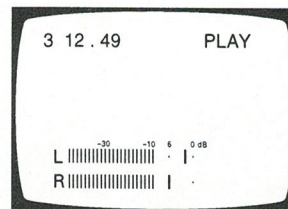


Audio output level meter display:

During elapsed play time of the track mode of CD playback or CDV (audio part) playback, the audio output level meter will be displayed on the monitor screen.

NOTE:

In some cases, the display output level may differ from the actual output level, but this is not a malfunction.



The screen display disappears automatically if you leave it for a long time (for about 80 minutes or more) without any operation. In this case, press any button on the remote control unit so that the screen display will appear on the screen.


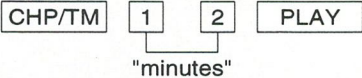
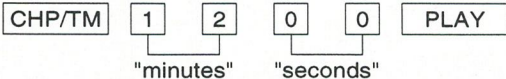
TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.

Symptom	Cause	Remedy
1. Disc table is not ejected when \blacktriangle is pressed.	<ul style="list-style-type: none"> ● Power cord is not properly plugged into AC wall socket. ● Power switch is not turned on. 	<ul style="list-style-type: none"> ● Plug in power cord. ● Turn on power switch.
2. Disc table comes out.	<ul style="list-style-type: none"> ● Disc is dirty. ● The disc is not properly set on the disc table. ● Moisture has condensed on parts in the player. ● Disc is warped. 	<ul style="list-style-type: none"> ● Clean disc. ● Set the disc properly. ● Remove disc and let player stand for 1 to 2 hours until it is dry. ● Change the disc.
3. Remote control does not work.	<ul style="list-style-type: none"> ● Batteries are weak. ● There is an obstacle between the player and the remote control unit. ● Remote control unit is not in a good location for transmission. 	<ul style="list-style-type: none"> ● Replace batteries. ● Remove the obstacle or shift the remote control position. ● Operate the remote control unit in front of the player.

Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

WHEN A LASERVISION DISC IS BEING PLAYED

Symptom	Cause	Remedy
5. Disc is rotating but there is no picture.	<ul style="list-style-type: none"> ●The TV set is not turned on. ●Wrong connections from player to TV. 	<ul style="list-style-type: none"> ●Turn on TV. ●Make correct connections.
6. Picture continuously moves vertically.	<ul style="list-style-type: none"> ●The TV vertical-hold control is not adjusted properly. 	<ul style="list-style-type: none"> ●Adjust vertical-hold control on TV.
7. Particular disc does not playback properly. The playback stops in the middle of the disc program.	<ul style="list-style-type: none"> ●The playing surface of the disc is dirty. ●The disc is warped. 	<ul style="list-style-type: none"> ●Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints. ●Change the disc.
8. Sound is unnatural or distorted.	<ul style="list-style-type: none"> ●CX system is turned ON for disc which has no  mark. 	<ul style="list-style-type: none"> ●Press AUDIO D/A to turn CX system OFF.
9. No sound output during playback.	<ul style="list-style-type: none"> ●MULTI-SPEED or STILL/STEP playback is being performed. Sound is output only during the normal play mode. The audio signals are not output during other playback modes. 	<ul style="list-style-type: none"> ●Press PLAY ► to set the player to normal play mode.
10. During STILL playback, a part of the screen image shakes.	_____	<ul style="list-style-type: none"> ●Even if the disc is a standard play disc, there may be some cases in which a fully still image cannot be obtained, but this does not mean that the player or the disc is defective.
11. CHAPTER SKIP, CHAPTER PROGRAM PLAY and CHAPTER NUMBER SEARCH cannot be performed.	<ul style="list-style-type: none"> ●Disc in which no chapter numbers are recorded is loaded. 	<ul style="list-style-type: none"> ●Press DISPLAY to check if chapter number is displayed.
12. Certain discs take too long to search or are not searched.	<ul style="list-style-type: none"> ●It takes time to read the recorded code, depending on the disc. 	<ul style="list-style-type: none"> ●Press CLEAR and picture will appear. (At this point, a slightly different scene from that which has been searched for may appear.)
13. Certain discs take too long to start or do not start.	<ul style="list-style-type: none"> ●There are errors when the disc code is read. (There is no damage to the unit.) 	<ul style="list-style-type: none"> ●Press ■ and stop the playback. Press PLAY ► and start the playback again. (Repeat this operation a few times.)
14. The player takes too long to find point A-B (INTERVAL) REPEAT operation.	<ul style="list-style-type: none"> ●Same as item 12 above. 	<ul style="list-style-type: none"> ●Same as item 12 above. (The repeat mode is canceled.)
15. Picture other than instructed is searched in TIME NUMBER SEARCH mode.	<ul style="list-style-type: none"> ●Method of inputting numerals in the TIME NUMBER SEARCH mode differs, depending on whether time number is recorded on disc in hours and minutes or minutes and seconds as shown below: [e.g.] 12-minute search ●Disc in which time number is recorded in minutes. <div style="text-align: center;">  </div> ●Disc in which time number is recorded in minutes and seconds. <div style="text-align: center;">  </div> 	

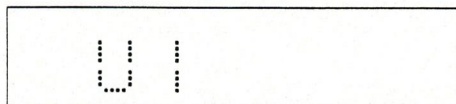
WHEN PLAYING BACK A COMPACT DISC

Symptom	Cause	Remedy
16. Player stops immediately after playback started.	<ul style="list-style-type: none"> ● Disc is loaded upside down (CD, CDV, one-sided LD discs). ● The playing surface of the disc is dirty. ● Disc is not properly set on the disc table. 	<ul style="list-style-type: none"> ● Load the disc correctly with the label side upward. ● Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints. ● Set the disc properly.
17. No sound output.	<ul style="list-style-type: none"> ● The stereo amplifier is not correctly connected. ● You are not operating the stereo amplifier correctly. ● The connection terminals and/or the plugs of the connection cords are dirty. ● The plugs of the connection cords are disconnected, or are not fully pushed in. ● The player is in pause mode. 	<ul style="list-style-type: none"> ● Connect the amplifier correctly. ● Refer to the operating instructions for the amplifier, and operate the amplifier correctly. ● Clean the plugs and terminals and connect again. ● Make sure that connections are made correctly. ● Press PLAY ► and restore the player to play mode.
18. Sound is distorted.	<ul style="list-style-type: none"> ● The audio output jacks are connected to the PHONO jacks. ● The connection terminals and/or the plugs of the connection cords are dirty. ● The plugs of the connection cords are not fully pushed in. 	<ul style="list-style-type: none"> ● Connect to the AUX, CD, VDP, LD, or VCR jacks. ● Clean the plugs and terminals and connect again. ● Push the plug in firmly.

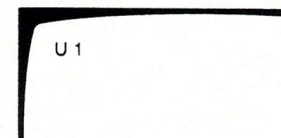
When troubles occur:

When some troubles occur during use of the player, the following display (service number) appears on the display of the player and the TV screen.

Display window of the player



TV screen



Displayed number	Condition of the player	Remedy
U 1	A disc is not loaded correctly on the disc table. Or, a disc is dirty.	Reload a disc corresponding to a disc guide on the disc table. Wipe the disc with a soft cloth.
U 2		Open the disc table and press ► again.
F 5	Two discs are loaded on the disc table. Or, a disc is dirty.	Load only one disc on the disc table. Wipe the disc with a soft cloth.
P 2 L 3 E 4	(The displayed number after P, F, L, E differs depending on the condition of the player.)	Open the disc table and press ► again. If the same service number is displayed, the player is in abnormal condition. When requesting service, please notify the displayed number on the display of the player or on the TV screen (for example, 'service number E 4').
H 0 H 1 A 5	The player is in abnormal condition. (The displayed number after A differs depending on the condition of the player.)	When requesting service, please notify the displayed number on the display of the player or on the TV screen (for example, 'service number H 1').

X. Servicing

The TheaterVision is an inherently robust audio/video component, which should provide many years of trouble-free performance. Should servicing become necessary, refer servicing directly to Enlightened Audio Designs or its authorized representatives. Malfunctions due to parts and and/or workmanship are generally covered by EAD's limited one-year warranty.

XI. Warranty

The TheaterVision is guaranteed for one year against defects due to parts and/or workmanship. If the TheaterVision is found to be defective, Enlightened Audio Designs will, at its option, repair or replace the defective unit. This warranty extends to the original, registered owner of the TheaterVision purchased from an authorized EAD dealer or representative. This warranty does not extend to cosmetic damage caused by normal wear and tear or to damage caused by accidental or intentional misuse.

XII. Specifications

■ FORMAT

System:	Optical videodisc system complies with MCA/Philips specifications
Usable Discs:	3-inch CD: 20 Min 5-inch CD: 70 Min. 5-inch CDV: Video 5 Min Audio 20 Min 12-inch LD (CLV) disc: 60 Min/side 12-inch LD (CAV) disc: 30 Min/side 8-inch LD (CLV) disc: 20 Min/side 8-inch LD (CAV) disc: 14 Min/side
Disc rotation speed:	CD: 600 to 200 CDV: Video 2,700 to 1,800 rpm Audio 600 to 340 rpm LD (CLV) disc: 1,800 to 600 rpm LD (CAV) disc: 1,800 rpm

■ OUTPUTS

Video Monitor	NTSC
Composite:	1 V p-p (75 ohms, sync. negative) RCA jack
S-Video:	Y (luminance) 1 V p-p (75 ohms) C (chroma) 286 mV p-p (75 ohms)
Analog Audio Output:	200 mV rms (1 kHz, 40%)
Digital Audio Outputs	
Coaxial:	Bi-phase SPDIF (75 ohms) 1V p-p, loaded
ST-Glass:	Multimode 62.5/125 micrometer glass fiber; ST connectors; Wavelength 820 nm
AES/EBU:	RS-422 balanced: 5 Volts p-p (110 ohms)
AC-3 RF Output	2.88 MHz QPSK (75 ohms) 200mV p-p, loaded

■ GENERAL

Power requirements:	100-120 VAC, 60 Hz or 200-240 VAC, 50 Hz
Power consumption:	50 Watts
Operable temperature:	41° to 95° F (+5° to 35° C)
Dimensions:	17" x 17" x 6"
Weight:	30 lbs

Enlightened Audio Designs



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Fairfield, Iowa 52556
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