

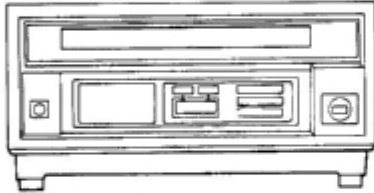
**LaserDisc™**

***Operating  
Instructions***

**LASERVISION PLAYER**

**LD-V3000**

NTSC



Thank you for buying this PIONEER product.  
Please read through these operating instructions so  
you will know how to operate your model properly.  
After you have finished reading the instructions, put  
them away in a safe place for future reference.

**WARNING:** TO PREVENT FIRE OR SHOCK  
HAZARD, DO NOT EXPOSE THIS APPLIANCE TO  
RAIN OR MOISTURE.

**IMPORTANT NOTICE**  
RECORD THE MODEL NUMBER AND SERIAL  
NUMBERS OF THIS EQUIPMENT BELOW. THE  
NUMBERS ARE ON THE REAR PANEL.

MODEL NO. LD-V3000  
SERIAL NO. \_\_\_\_\_

**KEEP THESE NUMBERS FOR FUTURE USE.**

 **PIONEER®**

# IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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.

## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

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



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

# SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** — All the safety and operating instructions should be read before the appliance is operated.

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

**HEED WARNINGS** — All warnings on the appliance and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**CLEANING** — Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**ATTACHMENTS** — Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

**WATER AND MOISTURE** — Do not use this video product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

**ACCESSORIES** — Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product 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 video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**VENTILATION** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**POWER SOURCES** — This video product 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. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

**POLARIZATION** — This video product is 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.

**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.

**LIGHTNING** — For added protection for this video product receiver 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 video product due to lightning and power-line surges.

**POWER LINES** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**OVERLOADING** — Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

**OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this video product 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 video product.

**SERVICING** — Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### DAMAGE REQUIRING SERVICE

Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been exposed to rain or water.
- If the video product 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 video product to its normal operation.
- If the video product has been dropped or the cabinet has been damaged.
- When the video product exhibits a distinct change in performance — this indicates a need for service.

### REPLACEMENT PARTS

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

### SAFETY CHECK

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

### OUTDOOR ANTENNA GROUNDING

If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and build up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

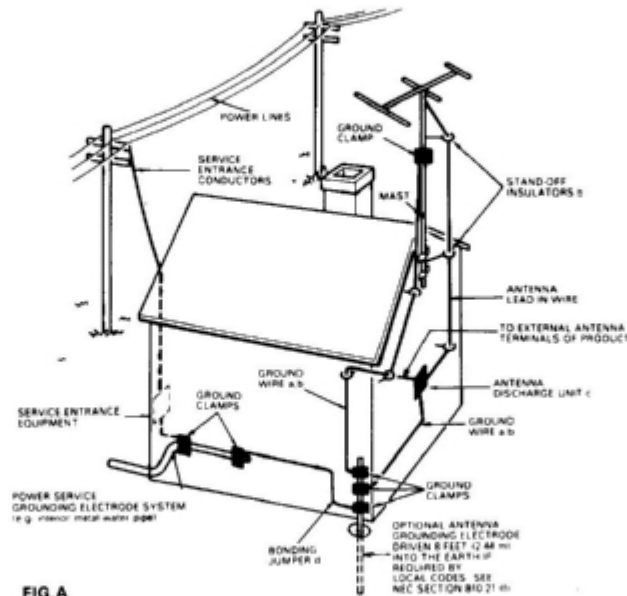


FIG. A

- Use No. 10 AWG (5.3 mm<sup>2</sup>) copper wire, No. 8 AWG (8.4 mm<sup>2</sup>) aluminum wire, No. 17 AWG (1.0 mm<sup>2</sup>) copper-clad steel wire, bronze wire or larger wire as ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm<sup>2</sup>) copper or equivalent when separate antenna-grounding electrode is used.

**CAUTION:** Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.**

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Only LaserVision videodiscs bearing the symbol below and 20 cm (8 inches) in diameter, should be used with this player.



This is the unified symbol mark of LaserVision videodisc

This player is to be used exclusively with the NTSC color system. Please use NTSC LaserVision discs (8-inch discs only). PAL and SECAM system LaserVision discs cannot be used with this player.

# FEATURES

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## **NON-CONTACT OPTICAL PICKUP OPERATES FROM SEMICONDUCTOR LASER**

The LD-V3000 LaserVision player directs a laser beam onto the disc surface, and picks up the reflected light as a playback signal. This means that images and sound are played back without the pickup ever coming into physical contact with the disc surface. For the source of the laser beam, use is made of a highly reliable semiconductor laser with a long service life, which has also allowed the achievement of light weight and low cost.

## **EASY TO CARRY COMPACT SIZE**

Owing to the use of a front loading mechanism, and to the fact that the player has been designed exclusively for the playing of 8-inch discs, it has been possible to make the player easy to carry. This allows LaserVision discs to be put to use in a wide range of situations.

## **AUTOSTART FUNCTION**

The player has an autostart function which causes playback to begin automatically, when the disc table upon which a disc has been loaded is drawn into the player.

Playback also begins automatically if the power is switched on with a disc already set in the player.

## **INTERNAL CX NOISE REDUCTION SYSTEM AND AUTOMATIC DISCRIMINATION**

When combined with CX encoded discs, an expanded dynamic range and greatly increased signal to noise ratio can be obtained.

The CX system picks up special codes recorded on the disc, and incorporates an automatic discrimination system which automatically turns it ON and OFF.

## **SELF-PROGRAMMED DISC PLAYBACK**

When a disc is to be used for standard educational or sales promotion purposes etc., a program can be recorded on the disc itself at the time of manufacture. This kind of disc is called a self-programmed disc. When the LD-V3000 starts to play such a disc, the program recorded on the disc is automatically transferred into a memory inside the player. Following this, the player plays back the disc in accordance with the instructions of the program.

## **AUTO REPEAT FUNCTION**

After playing one side of a disc, the player returns to the start of the disc and repeatedly plays back the same side.

Auto repeat does not function when the player is in the self-programmed playback mode.

# ABOUT LASERVISION DISCS

LaserVision videodiscs basically come in two forms: standard play discs and extended play discs. Discs on which the ordinary sound is accompanied by digitally recorded sound are also available.

## STANDARD PLAY (CAV) DISCS

Standard play discs are played at constant angular velocity (CAV). One frame is recorded for each revolution of the disc, and still-frame and other forms of trick playback are possible with these discs.

## EXTENDED PLAY (CLV) DISCS

These discs are played back at constant linear velocity (CLV). Extended play discs cannot be used for still frame or other kinds of trick playback, but they are able to play for a longer length of time than standard play discs.

## LASERVISION WITH DIGITAL SOUND DISCS



The jackets and labels of these discs bear the symbol on the left.

In addition to conventional analog sound signals, LaserVision with Digital Sound Discs also have recorded on them the same kind of PCM sound signals that are recorded on Compact Discs.

The two types of sound, digital and analog, are recorded onto the discs using different frequency bands.

The LD-V3000 plays back only the analog sound.

## DISC HANDLING PRECAUTIONS

- When holding discs, handle them as shown in the illustration, try as much as possible not to touch their playing surfaces. If the surfaces of the discs are scratched, it may cause track skipping if the scratches are severe.

### How to hold Discs

**Holding with both hands:** Hold the disc by its edges with both hands, as shown in Fig. A.

**Holding with one hand:** As shown in Fig. B, hold the disc by its center hole and one edge.



Fig. A



Fig. B

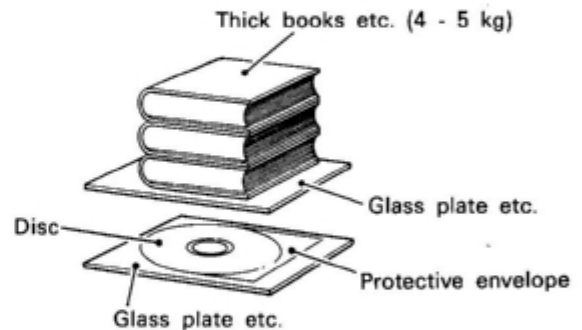
- The presence of fingerprints or other dirt etc. on the disc, will not directly affect the recorded signal. Nevertheless, dirt on the disc will cause the brightness of the light reflected from the signal surface to be reduced, which may adversely affect sound and picture quality. Always take care to keep your discs clean. To clean your discs, use a soft cloth and gently wipe away dust and dirt from the inside outward. If a disc is very dirty, soak a soft cloth in neutral detergent diluted with water, and after wringing the cloth out well, wipe away the dirt. Following this, wipe off any moisture with a dry cloth.
- Do not use record cleaning sprays, or static prevention sprays etc. Furthermore, volatile liquids such as benzene, thinner etc. may dissolve the disc surface, so do not try to clean discs with such substances.
- After playing a disc, always remove it from the player and return it to its jacket or case. Then store it standing vertically upright away from heat and humidity. Do not leave discs in locations such as the seat of car, which may become unbelievable hot.

**NOTE:**

*Even when discs are in their jackets, if you store them at an angle, or stacked on top of each other, the discs may become warped.*

- Discs rotate inside the player at high speed. Do not use damaged discs that are warped or cracked etc. This may result in damage to the player.

*If a disc becomes warped, put the disc into its protective envelope, and then place it between flat plates made of glass etc. Then place thick books etc. on top of the plates so as to apply a weight of 4 to 5 kg, and leave the disc like this for a day or so. This may alleviate the warp.*

**CAUTION WHEN USING THE DISC**

All rights reserved.

Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

# BEFORE OPERATION

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## INSTALLING THE PLAYER

### PLACE THE PLAYER ON A STABLE SURFACE

Place the player on a flat, stable stand.

Do not place it on a sofa etc. or other infirm object.

### DO NOT HAMPER HEAT DISSIPATION

Do not operate the player on long pile carpet or on a bed or sofa etc., or when it is wrapped in cloth etc. This would hamper heat dissipation and could result in breakdown.

Also, please be particularly careful not to hamper heat dissipation via the ventilation inlet and outlet holes on the rear panel, which allow air to be drawn through the player by an internal fan. Furthermore, do not place the player above an amplifier or other heat generating device.

## KEEP YOUR PLAYER AWAY FROM HEAT AND HUMIDITY

Do not install the player in a location subject to direct sunlight, or light from spotlights, or near a stove or radiator etc. This could adversely affect the cabinet and internal components. Also avoid installing the player in a humid or dusty location. This could result in a malfunction or accident. Do not install near cooking ranges where the player could be affected by smoke, steam, or heat, or in a location where it could be splashed with water.

## DO NOT PLACE HEAVY OBJECTS ON THE PLAYER

Do not place heavy objects on the player. Furthermore, install it away from cassette decks and other devices which are easily affected by magnetic fields.



**POWER SUPPLY**

The player operates on an AC power supply of 120 V.

**CONDENSATION**

If the player is brought from cool surroundings into a warm room during winter, or if the temperature of the room rises suddenly owing to a heater being switched on, condensation may form on mechanical parts and lenses in the player.

While condensation is present, it will not be possible for signals to be read out by the laser beam. When this occurs the disc table will come out slightly, and the indicators on the front panel will flash.

If the indicators flash, remove the disc from the player, push the disc table back into the player, switch off power and let the player stand for one or two hours, depending on the degree of condensation.

To avoid condensation when using the player during the winter season, gradually raise the room temperature before switching on power.

**IMPORTANT NOTE****DO NOT MOVE THE PLAYER DURING PLAYBACK**

**During playback the disc inside the player rotates at high speed (maximum 1,800 rpm).**

**If the player is lifted or moved during playback the disc may be scratched.**

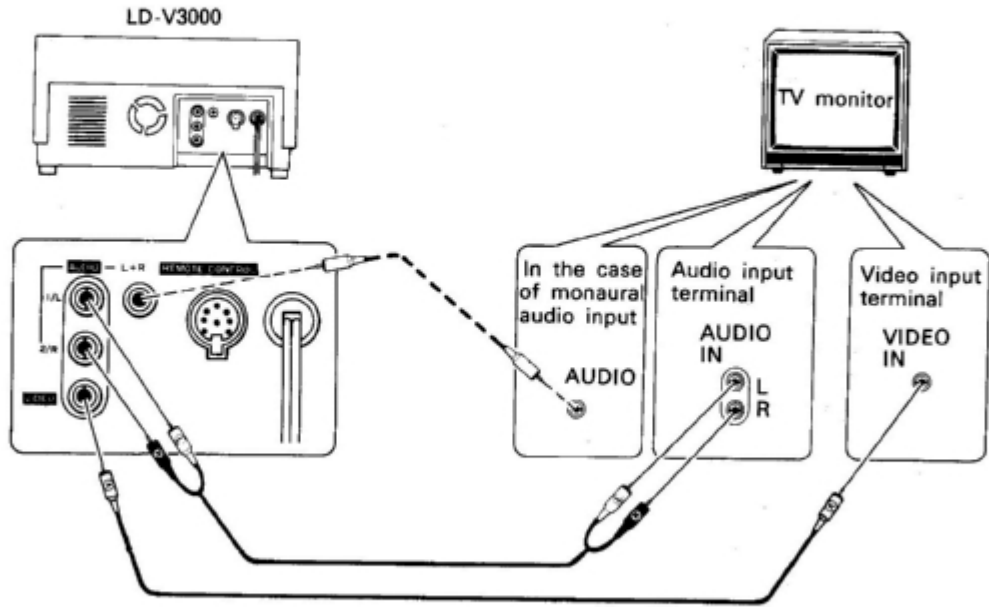
**When you wish to move the player, stop playback and remove the disc.**

**You should also remove the disc before carrying the player somewhere.**

**Never use an aluminium backed disc. This will result in damage to the player.**

# CONNECTIONS

When making connections, switch off power to the player and other units to be connected, and unplug each unit from the power outlet. Switch on power after all connections have been made.



Connect the video output terminal of the player to the video input terminal of the equipment (TV monitor etc.) that you will use to display the picture—use the supplied video cord.

Connect the audio output terminals of the player (1/L, 2/R) to the equipment (stereo system or TV monitor etc.) that you will use to reproduce the sound—use the supplied audio cords.

If the audio input terminal of your audio equipment is monaural terminal, connect it to the AUDIO L + R terminal of the player.

**NOTE:**

*The supplied video cords cannot be used to connect to video or audio input terminals other than pin jack type terminals. If you need a special cord, please obtain a suitable cord from your dealer.*

## BASIC OPERATIONS

### TO START PLAYBACK

[PREPARATIONS]: Turn on power to the TV monitor and stereo equipment etc., that you will use together with the player.

**1. Turn on power to the player.**

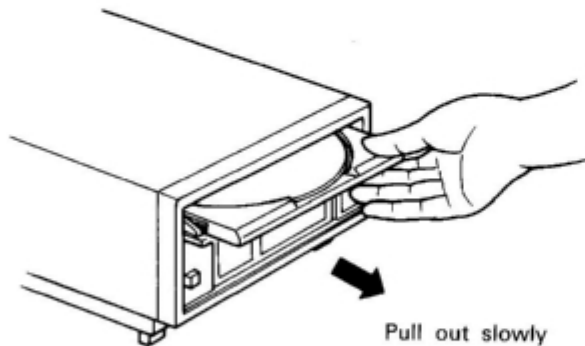
- The 1/L and 2/R audio indicators will light.

**2. Press the REJECT button.**

- The disc table will now move out slightly.

**3. Pull out the disc table**

- Pull out the disc table slowly by hand.



**4. Load the disc**

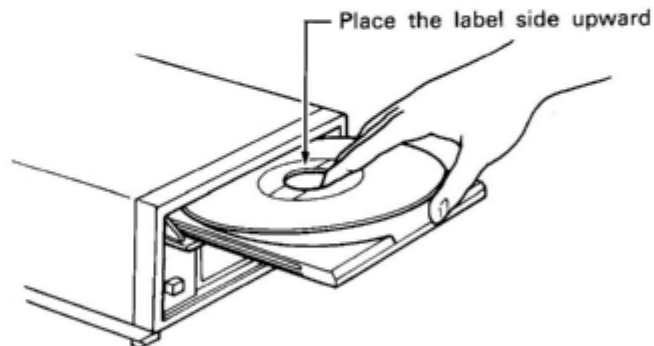
- Place the disc on the disc table with the label side facing upward.

**NOTE:**

- If fingerprints or dirt are present on the disc surface, the full sound and picture quality available from the disc will not be obtained. Before loading a disc, clean the lower surface (the lower surface is the side that will be played back), if it is dirty.

(Refer to page 6, "About LaserVision discs".)

- Only one disc can be inserted.



**5. Push the disc table inward**

- Slowly push the disc table inward, until it is pulled in automatically.

When the disc table upon which a disc has been loaded is pulled into the player, playback begins automatically (AUTO START function).

Playback also begins automatically if the power is switched on with a disc already set in the player.

During the time until a picture appears on the screen, the PLAY indicator flashes. When a picture appears, the indicator lights continuously.

### CX NOISE REDUCTION SYSTEM

The LD-V3000 contains a CX system decoder.

Use of the CX system with CX encoded discs, allows a higher S/N ratio and wider dynamic range to be obtained.

Neither the player nor the optional remote control unit have a CX system ON/OFF button, however when a disc with CX codes recorded on it is played back, the player reads the codes and switches the CX system on and off automatically.

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CX is a trademark of CBS Inc.

This player meets the CX EXPANDING SPECIFICATION.

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### AUTOMATIC PICTURE STOP

Some discs have special signals, called picture stop codes recorded on them. When playing back such a disc, still frame playback will automatically occur if

the disc is played in play mode as far as the frame (picture) specified by the picture stop code.

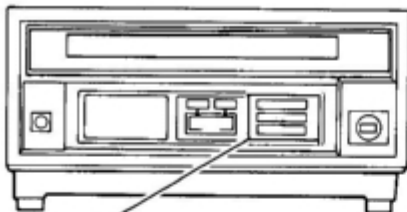
*During programmed playback (see page 24), these codes are ignored.*

### CAUTION

**Do not move the player during playback. If the player is lifted or otherwise moved during playback, the disc may be scratched.**

**If the disc table comes out and all the indicators flash, this indicates that playback cannot be performed because condensation has occurred, the player is too hot, or because the disc is dirty or warped.**

- With regard to condensation refer to page 9.
- If the player is too hot, remove the disc, switch off power, and let the player stand until it has cooled. If the ambient temperature is high, remove the disc and after switching off power move the player to a cooler location. (The operating temperature range is 5°C to 35°C.)
- If the disc is dirty or warped, remove the disc and switch off power. After cleaning the disc or eliminating the warp, switch on power and try playing the disc again.

**Indicators****PLAY**

Lights during playback. Flashes at the start of playback and during search operation.

**CHAP. REPEAT**

Lights during chapter repeat playback. (see page 19)

**PGM. RUN**

Lights during programmed playback. (See "AUTOMATIC MODE PLAYBACK" on page 24.)

**TO STOP PLAYBACK**

After playing one side of a disc, the player returns to the start of the disc and repeatedly plays back the same side.

To stop playback midway, please perform the operations below.

**1. Press the REJECT button.**

■The disc will stop rotating, and the disc table will come out slightly.

**2. Pull out the disc table.****3. Remove the disc.**

■Put the disc back in its jacket or case and store vertically.

**4. Push in the disc table.****5. Switch off the power.****When not using the player, push the disc table back into the player.**

If a strong force (particularly in the vertical direction) is applied to the disc table when it is out of the player, the player may be damaged. Depending on its location, the player may even topple over which is dangerous.

Do not place any object other than a disc on the disc table, and after use always return the table to its original position inside the player.

# REMOTE CONTROL OPERATION (Using the optional remote control unit)

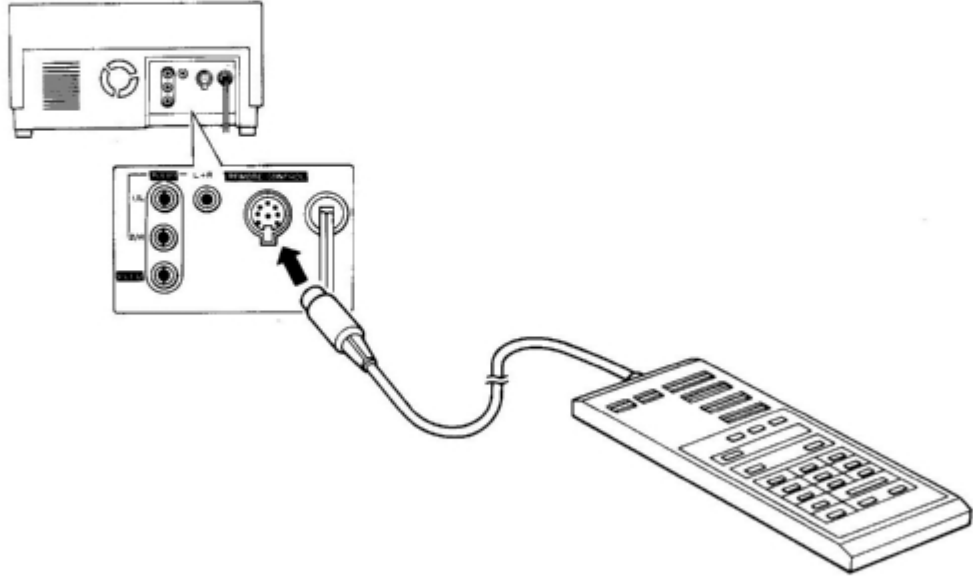
## PREPARATIONS

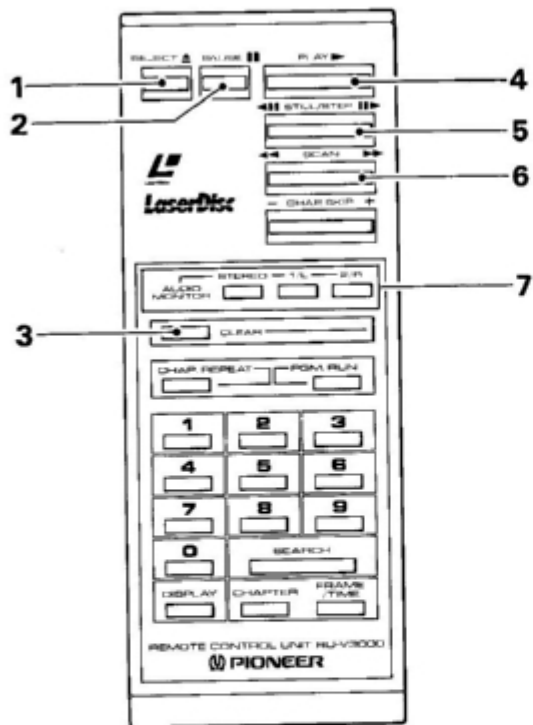
Connect the optional remote control unit (RU-V3000) to the REMOTE CONTROL terminal on the rear panel of the player.

Do this by aligning the plug with the groove in the 8 pin, horse shoe shaped DIN connector, and pushing the plug in securely.

## NOTE:

*Do not tie knots in the cord of the remote control unit, or place heavy objects on top of it.*





**1. REJECT**

When this key is pressed, playback stops.  
When pressed twice, the disc table comes out slightly.

**2. PAUSE**

When this key is pressed, the sound and picture are interrupted and the player goes into playback pause mode. When pressed again, playback resumes from the point where it was interrupted.

**NOTE:**

- During pause mode, the PLAY indicator remains lit.
- When the PAUSE key is pressed during search operation, (P. 20) the player goes into pause mode when the search ends.

**3. CLEAR**

This key may be used in the following ways.

- To cancel chapter repeat. (P. 19)
- For correction of numerical entries during search operation, and to cancel search operation. (P. 20)
- To cancel automatic mode playback. (P. 25)

**4. PLAY**

This key is used to return to play mode from pause mode, still frame playback mode and stop mode.

**5. STILL/STEP**

Pressing either side of this key causes still frame playback. Subsequent presses of the key cause the playback to step forward or backward one frame at a time.

- ▶▶ : Playback steps forward one frame.
- ◀◀ : Playback steps backward one frame.



**NOTE:**

- Still/step operations are only possible with standard play (CAV) discs.
- Depending on the disc, certain still frame pictures may be blurred. This is not a fault of the player or disc.

**6. SCAN**

Depressing and holding these keys allow the disc contents to be scanned.

- ▶▶ : Scans forward.
- ◀◀ : Scans backward.

**7. AUDIO MONITOR**

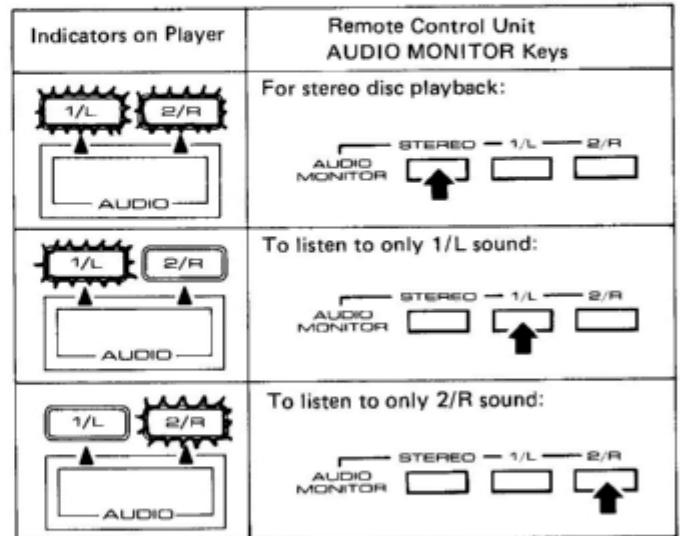
When power is turned on the player goes into stereo mode.

To change this press one of the AUDIO MONITOR keys, and confirm the new mode by observing the player indicators.

**NOTE:**

Sound is only output during playback in the play mode. During still and scan modes sound is not output.

Remote Control Unit AUDIO MONITOR Keys	Output Terminals		
	1/L	2/R	L + R
STEREO	1/L	2/R	1/L + 2/R
1/L	1/L	1/L	1/L
2/R	2/R	2/R	2/R



**8. DISPLAY**

When LaserVision discs are manufactured, chapter and frame (time) numbers are recorded on the disc together with the video and sound signals. Each time the DISPLAY key is pressed, these numbers are either displayed on or erased from the screen.

**CHAPTER NUMBER (Standard play and extended play discs)**

Chapter numbers are provided to indicate divisions in the disc program, and are equivalent to chapter numbers in a book.

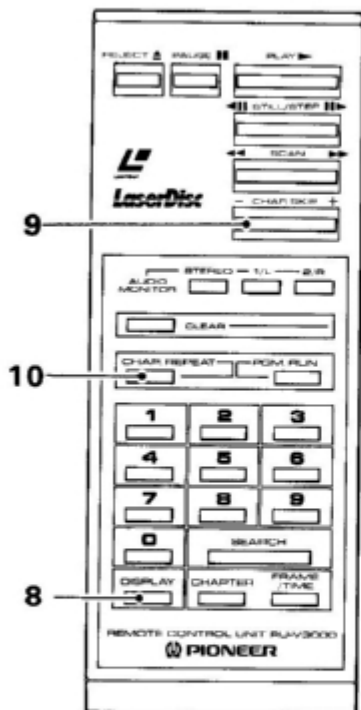
\* Not all discs have chapter numbers recorded on them.

**FRAME NUMBER (Standard play discs)**

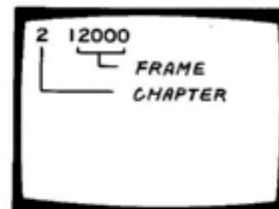
Frame numbers are numbers associated one to one with every frame from the beginning of the disc program. These are equivalent to the pages of a book.

**TIME NUMBER (Extended play discs)**

The time number indicates the elapsed playback time during play mode from the start of the disc. Time numbers are recorded in either minute or second units depending on the type of disc.



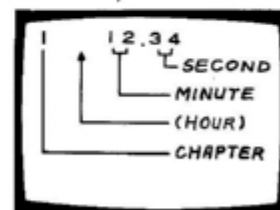
(Standard play disc)



(Extended play disc: Case of minute unit time numbers)



(Extended play disc: Case of second unit time numbers)



## 9. CHAP. SKIP

**(For discs on which chapter numbers are recorded only)**

This key enables you to jump to the start of the next chapter, or to return to the start of the chapter currently being played.

- + Side: Skips to start of next chapter.
- Side: Skips to start of chapter currently being played.

During skip operation, the picture and sound are interrupted.

If the skip key is pressed a number of times in succession, skip operation will be performed the appropriate number of times.

During skip operation, the PLAY indicator flashes. At the end of skip operation, the PLAY indicator lights up continuously again.

### NOTE:

- When chapter skipping in the reverse direction, be careful of the number of times you press the key. The first time you press the key, the player jumps to the beginning of the currently playing chapter. The second time you press the key, the player jumps to the beginning of the preceding chapter.
- When a disc without chapter numbers is being played, the CHAP. SKIP key does not function.
- If chapter skip operation is performed during chapter repeat playback, the chapter repeat playback is cancelled.
- If, in the still frame mode, chapter skipping is performed beyond the range of the recorded chapter numbers, the player searches for the last frame and enters the still frame mode.

*If, in the normal playback mode, chapter skipping is performed beyond the range of the recorded chapter numbers, the player returns to the start of the disc after about 10 seconds and begins playback. (Auto repeat)*

## 10. CHAP. REPEAT

**(For discs on which chapter numbers are recorded only)**

This function repeatedly plays back the currently playing chapter.

Press the CHAP. REPEAT key while playing back the chapter you want repeated.

The CHAP. REPEAT indicator on the front panel will light.

After playing to the end of the chapter, the player will search for the start of the same chapter, and play it again.

### NOTE:

*When a disc without chapter numbers is being played, the CHAP. REPEAT key does not function.*

### To cancel chapter repeat

Once more press the CHAP. REPEAT key or press the CLEAR key.

When chapter repeat is cancelled, the player plays until the end of the chapter and then advances to the next chapter.

Performing scan and chapter skip operations cancel chapter repeat.

## SEARCH (RANDOM ACCESS)

This function searches for a required scene using either frame numbers, chapter numbers, or time numbers. To search for a scene, use the optional remote control unit.

After completion of a search operation, the player goes into still frame mode in the case of a standard play disc, and into play mode in the case of an extended play disc.

If the PAUSE key is pressed during search operation, the player goes into pause mode after the search operation.

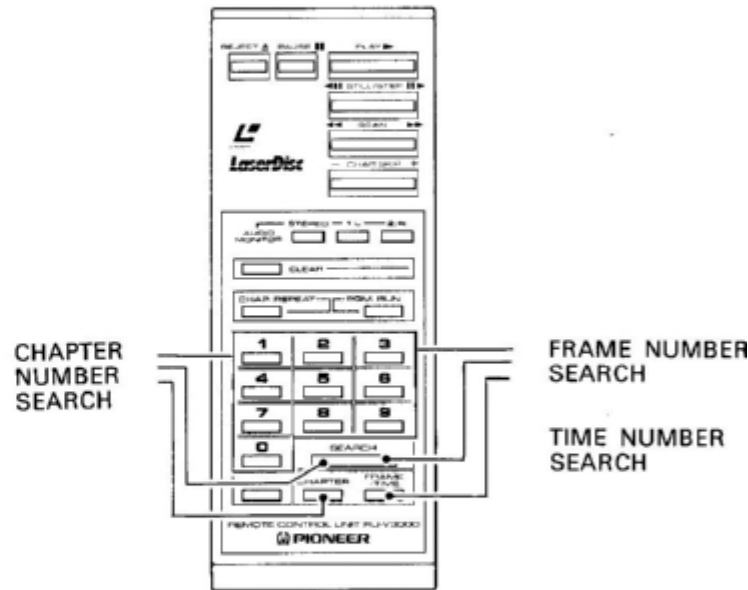
Furthermore, if the PLAY key is pressed during search operation when playing a standard play disc, the player goes into play mode after the search operation.

During search operation the PLAY indicator flashes. After completion of search operation the PLAY indicator lights up continuously.

**NOTE:**

- If you specify a chapter number or frame number in the case of a standard play disc, or a time number in the case of an extended play disc, which is larger than the maximum recorded number, the player will search near the end of the side being played.

- If you make a wrong entry with the numeric keys, press the CLEAR key and enter the number again.
- To cancel the search mode, press the CLEAR key, and after "0" is displayed, press the CLEAR key again.

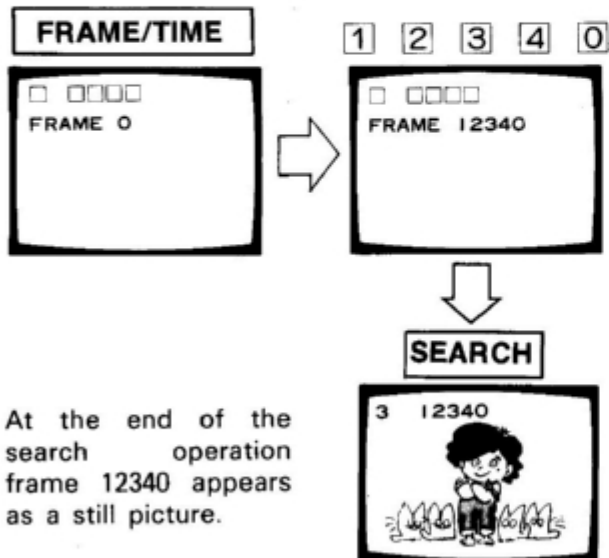


**FRAME NUMBER SEARCH**  
(Standard play discs only)

The player searches for a scene with a specified frame number.

[Example] To search for frame number 12340

1. Press the **FRAME/TIME** key.
2. Press the numeric keys **1, 2, 3, 4, 0**.
3. Press the **SEARCH** key.



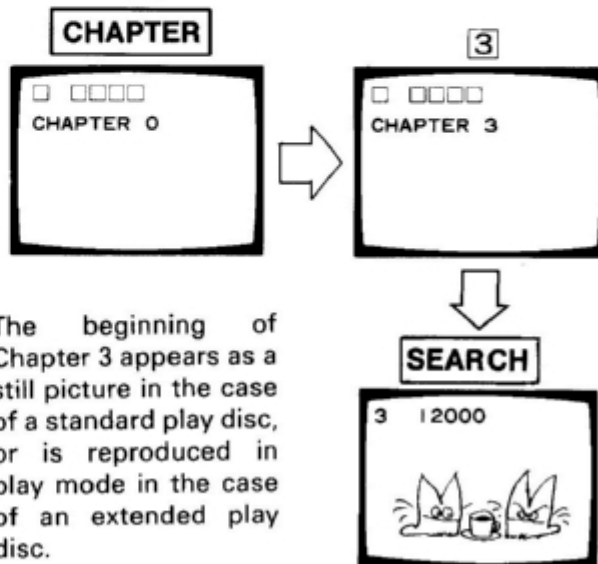
\* At the end of the search operation frame 12340 appears as a still picture.

**CHAPTER NUMBER SEARCH**  
(For standard and extended play discs on which chapter numbers have been recorded.)

The player searches for the beginning of a specified chapter.

[Example] To search for the beginning of Chapter 3.

1. Press the **CHAPTER** key.
2. Press the **3** key.
3. Press the **SEARCH** key.



\* The beginning of Chapter 3 appears as a still picture in the case of a standard play disc, or is reproduced in play mode in the case of an extended play disc.

**TIME NUMBER SEARCH  
(Extended play discs only)**

The player searches for a scene located at a specified playing time from the beginning of the disc program. Depending on the disc, time numbers may be recorded with either seconds as the minimum unit, or with minutes as the minimum unit. (Refer to P. 18 "DISPLAY")

With these different types of disc, searching may be performed to either second accuracy or minute accuracy respectively.

**[Example]: To search for the picture 12 minutes from the beginning of a program.**

**For time in "minute" units**

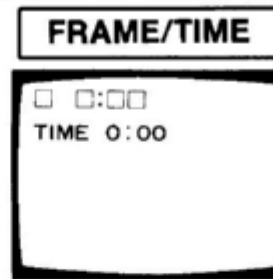
1. Press the **FRAME/TIME** key.
2. Press the numeric keys **1, 2**.
3. Press the **SEARCH** key.

**For time in "second" units**

1. Press the **FRAME/TIME** key.
2. Press the numeric keys **1, 2, 0, 0**.
3. Press the **SEARCH** key

\* When search operation ends, the player plays back in play mode.

For time in "minute" units



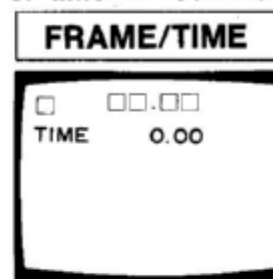
1, 2



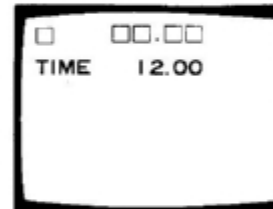
SEARCH



For time in "second" units



1, 2, 0, 0



SEARCH



When the search time is entered with the numeric keys, the same numeric entry will represent different times depending on whether the time numbers recorded on the disc are seconds or minutes.

For example, if numeric keys 1 and 2 are pressed after pressing the FRAME/TIME key, the search times for the two kinds of disc are as follows.

- For a disc on which seconds are recorded,  
**TIME 0.12**  
 will appear, and the player will search for the picture 12 seconds from the start of the program.
- For a disc on which minutes are recorded,  
**TIME 0:12**  
 will appear, and the player will search for the picture 12 minutes from the start of the program.

### **STARTING PLAYBACK BY MEANS OF CHAPTER NUMBER SEARCH**

If a disc is placed on the disc table, and chapter number search operations performed before pushing in the disc table, playback will start from the beginning of the specified chapter.

When you use this feature, the player enters play (normal playback) mode, even if a standard play disc is being played. (The player does not enter still frame playback mode.)

### **ABBREVIATION OF SEARCH PROCEDURE**

The numerals entered during search operation are not modified until either the player enter reject mode or until a new numeric entry is made.

If you want to search for the same picture indicated by the numeric display which appears when either the FRAME/TIME or the CHAPTER key is pressed, you can search for the picture by simply pressing the SEARCH key.

Also, if you want to change the search numbers (for frame, time or chapter search) which you just entered while playing the same disc, you can start with numeric key entry.)

#### **[Example]: When playing a standard play disc**

If you have pressed

**FRAME/TIME, 1, 2, 3, 4, 0, SEARCH**  
 (To search for frame 12340)

you can later press

**FRAME/TIME SEARCH**

to search for frame 12340 again.

Or, if you press

**1, 5, 0, 0, 0, SEARCH**

the player will search for frame 15000.

# SELF-PROGRAMMED DISC PLAYBACK

The operations for playing a self-programmed disc (a disc on which a standard playback program has been recorded), are not particularly different from those for playing an ordinary disc.

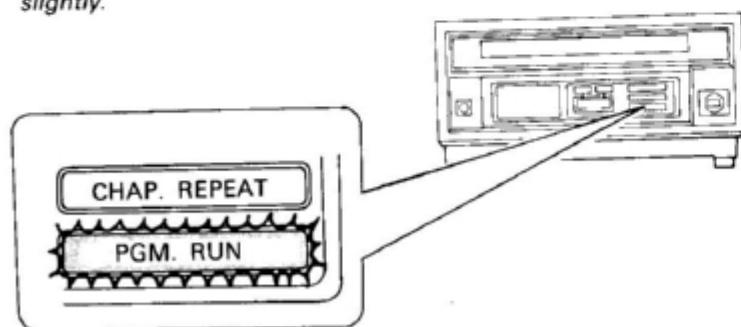
For instructions concerning how to load and remove the disc etc., please refer to the basic operations for "MANUAL MODE PLAYBACK" on page 12.

When a self-programmed disc is played, the player reads the program data recorded on the disc into an internal memory, and then plays back the disc in accordance with program instructions, starting from step 0.

During programmed playback, the PGM. RUN indicator on the front panel is lit.

**NOTE:**

When a self-programmed disc being played under program control finishes being played, the disc table comes out slightly.



## REMOTE CONTROL OPERATIONS DURING PROGRAMMED PLAYBACK

Use can be made of the REJECT, CLEAR, and DISPLAY keys, the AUDIO MONITOR STEREO, 1/L and 2/R keys, and the 0 - 9 numeric keys. Other keys do not function.

**NOTE:**

- The 0 - 9 numeric keys only function when the player is waiting for numeric entry.
- When the REJECT key is pressed, playback stops and the disc stops rotating. When pressed twice, the disc table comes out slightly, but the contents of the program memory are preserved.
- Pressing the CLEAR key cancels programmed playback, and returns the player to normal playback mode.
- When playback is stopped and the disc removed, the contents of the program memory are preserved.

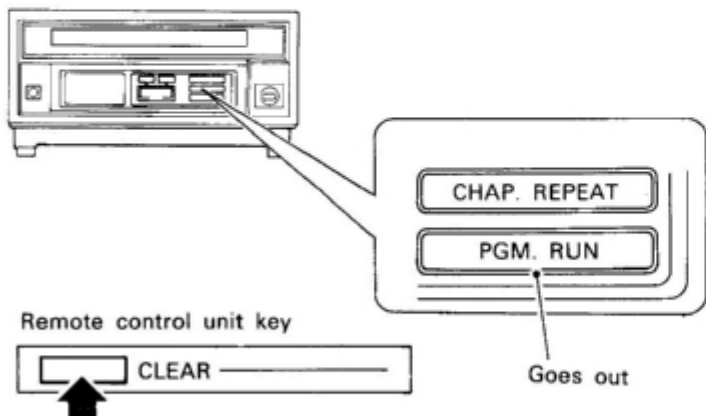


**TO CANCEL PROGRAMMED PLAYBACK**

**Press the CLEAR key.**

The PGM. RUN indicator will go out, and normal disc playback operation (manual mode operation) will be possible.

The contents of the program memory will be preserved, and it will be possible to restart programmed playback at any time.



**TO RESTART PROGRAMMED PLAYBACK**

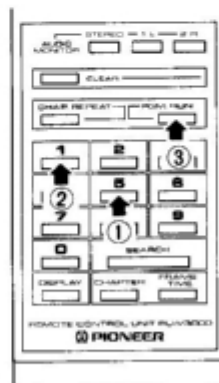
**Press the PGM. RUN key.**

Playback will be performed in accordance with the playback program preserved in memory, starting from step 0.

When you wish to start playback from a step other than step 0, specify the step with the numeric keys, and then press the PGM. RUN key.

**[Example]:To start programmed playback from step 51:**

**Press 5, 1, PGM. RUN.**



# 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.

If the trouble cannot be rectified even after performing the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Check	Page to Refer to
Disc table does not come out when REJECT button is pressed.	<ul style="list-style-type: none"> <li>● Is the power switch turned on?</li> </ul>	—
Playback does not begin.	<ul style="list-style-type: none"> <li>● Is the power cord of the player properly inserted into a power outlet?</li> <li>● Is the power switch turned on?</li> <li>● Is a disc loaded?</li> </ul>	— — 12
All the indicators flash, and playback is not possible.	<ul style="list-style-type: none"> <li>● Has condensation occurred inside the player? Remove the disc from the player, switch off power, and let the player stand for a while. After the player reaches room temperature, the condensation will evaporate, and playback will become possible.</li> <li>● Is the player or the surrounding environment too hot? Remove the disc from the player, switch off power, and let the player stand until it cools. If the surrounding environment is very hot, remove the disc from the player, switch off power and then install the player in a different location. (The operating temperature range is 5°C to 35°C.)</li> <li>● Is the disc dirty or warped? Remove the disc from the player, and switch off power. After either cleaning the disc or eliminating the warp, switch on the player and try playing the disc again.</li> </ul>	9, 13  13  7

Symptom	Check	Page to Refer to
<p>The disc rotates but a picture is not produced.</p>	<ul style="list-style-type: none"> <li>● Is power to the equipment for displaying the picture (TV monitor etc.) turned on?</li> <li>● Is the player in pause mode?</li> </ul>	<p>10, 12 16</p>
<p>A particular disc does not play back properly, or produces poor picture quality. Playback stops part way through a disc, and the disc table comes out.</p>	<ul style="list-style-type: none"> <li>● Is the disc badly scratched or warped? If the disc is warped, put it into its protective envelope, and then place it between flat plates made of glass etc. Then place thick books etc. on top of the plates so as to apply a weight of 4 to 5 kg, and leave the disc like this for a day or so. This may alleviate the warp.</li> </ul> <div data-bbox="778 533 1236 900" style="text-align: center;"> <p>Thick book of about 4 ~ 5 kg (10 lbs.)</p> <p>Flat, firm board</p> <p>Disc</p> <p>Protective envelope</p> </div> <ul style="list-style-type: none"> <li>● Is the disc very dirty? Use the disc after cleaning it.</li> </ul>	<p>7</p> <p>7</p>

Symptom	Check	Page to Refer to
<b>No sound is produced.</b>	<ul style="list-style-type: none"> <li>● Is power to the equipment for reproducing the sound (stereo amplifier etc.) turned on? Are connections to the player loose?</li> <li>● Are the controls of the sound reproduction equipment suitably adjusted?</li> </ul>	—
<b>Snow noise appears on the screen. Noise is output from speakers.</b>	<ul style="list-style-type: none"> <li>● Are the plugs of the connection cords properly pushed in?</li> </ul>	10
<b>Still frame and frame advance are not possible.</b>	<ul style="list-style-type: none"> <li>● Is the disc being played an extended play disc? Still frame and frame advance are not possible with extended play discs.</li> </ul>	—
<b>Still pictures are blurred.</b>	<ul style="list-style-type: none"> <li>● Depending on the disc, certain parts of a still frame picture may be blurred even in the case of standard play discs. This is not a fault of the player or disc.</li> </ul>	—
<b>Remote control does not work.</b>	<ul style="list-style-type: none"> <li>● Is the plug of the remote control unit disconnected?</li> <li>● Is programmed playback (automatic mode) in progress? When programmed playback is in progress (the PGM. RUN indicator lights), some of the keys on the remote control unit do not function.</li> </ul>	

&lt; When using the optional remote control unit &gt;

Symptom	Check	Page to Refer to
<b>Search times are extremely long.</b>	<ul style="list-style-type: none"> <li>● In the case of some discs, the player takes a long time to read the disc codes. This is not a fault. If the time taken is extremely long in comparison to other discs, press the CLEAR key. (Please note that if you do this, that the scene that is found may not be exactly the same as the scene that was specified.)</li> </ul>	—
<b>Chapter skip, chapter repeat and chapter number search cannot be performed.</b>	<ul style="list-style-type: none"> <li>● Is the disc one on which chapter numbers are not recorded? When a disc on which chapter numbers are not recorded is being played, these functions cannot be performed.</li> </ul>	—
<b>When a time number search is performed, the player searches for a scene other than that specified.</b>	<ul style="list-style-type: none"> <li>● Using the DISPLAY key, check if the disc is one on which the time numbers are recorded in minute units, or if it is one on which the time numbers are recorded in second units. For example, to search for a scene 12 minutes from the start of a disc: (For a disc without second units) FRAME/TIME 1 2 SEARCH (For a disc with second units) FRAME/TIME 1 2 0 0 SEARCH Specify down to seconds.</li> <li>* Before performing a search operation, press the DISPLAY key and check the current playback location and whether or not second units are present.</li> </ul>	22

# SPECIFICATIONS

## 1. General

Type.....LaserVision videodisc player  
 Usable discs.....8 inch LaserVision Discs  
 Maximum playing time:  
 8-inch standard play disc (CAV)..28 min/both sides  
 8-inch extended play disc (CLV)..40 min/both sides  
 Spindle motor speed:  
 Standard play disc.....1,800 rpm  
 Extended play disc.....1,800 - 1,200 rpm  
 Power requirements.....AC 120 V, 50/60 Hz  
 Maximum power consumption.....70 W  
 Weight.....5.6 kg (12 lb 6 oz)  
 Dimensions.....250(W)x310(D)x132(H) mm  
 9 - 13/16(W) x 12 - 3/16(D) x 5 - 3/16(H) in  
 Operating temperature.....+5°C to +35°C  
 Operating humidity.....5% to 90%  
 (There should be no condensation of moisture.)

## 2. Video Output

Output level .....1Vp-p  
 (For 75  $\Omega$  load, sync negative)  
 Output terminal.....Pin jack

## 3. Audio Output

No. of channels.....2 channels  
 (Can be selected with optional remote control unit)

Remote Control Unit AUDIO MONITOR Keys	Output Terminals		
	1/L	2/R	L + R
STEREO	1/L	2/R	1/L + 2/R
1/L	1/L	1/L	1/L
2/R	2/R	2/R	2/R

Output level .....650mVrms  
 (For 100% modulation, 50 k $\Omega$  load)  
 Output terminals.....Pin jack x 3 (1/L, 2/R, L+R)

## 4. Supplied Accessories

- Video cord (2m).....1  
 (Pin plug — pin plug)
- Audio cord (2m).....1  
 (Pin plug x 2 — pin plug x 2)
- Operating instructions.....1

## 5. Functions

Functions that can be operated with optional remote control unit (RU-V3000)

Functions	Standard Play (CAV) Disc	Extended Play (CLV) Disc
PLAY (Normal playback)	YES	YES
PAUSE	YES	YES
SCAN (Forward, Reverse)	YES	YES
STILL/STEP (Forward, Reverse)	YES	NO
AUDIO MONITOR (Stereo, 1/L, 2/R)	YES	YES
CHAPTER SKIP (Forward, Reverse)	YES*	YES*
CHAPTER REPEAT	YES*	YES*
FRAME NUMBER DISPLAY	YES	NO
TIME NUMBER DISPLAY	NO	YES
CHAPTER NUMBER DISPLAY	YES*	YES*
FRAME NUMBER SEARCH	YES	NO
TIME NUMBER SEARCH	NO	YES
CHAPTER NUMBER SEARCH	YES*	YES*

- \* Possible when playing back discs on which chapter numbers are recorded.

## Other Functions

Autostart, auto repeat .....Possible for both standard play discs and extended play discs.

Automatic picture stop .....Possible only for standard play discs on which picture stop codes are recorded.

CX system .....When playing back discs on which special codes are recorded for switching the CX system on and off, automatic discrimination of codes allows operation.

Programmed playback .....Possible when playing a self-programmed disc.

## 6. Other

Remote control terminal (for connection of optional remote control unit) .....U-shaped 8-pin, DIN

### NOTE:

The specifications and design of this product are subject to change without notice, due to improvements.

## WHEN TRANSPORTING THE PLAYER

When transporting the player, do not let it be subjected to vibration or shock, and do not let it drop. During transportation, do not let the player be subjected to high temperatures, or splashed with water. Furthermore, before transporting the player, always remove any disc inside. Never transport the player when it is loaded with a disc.

### INFORMATION TO USER [FOR U.S. MODEL]

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause 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 the receiving antenna
- relocate this component with respect to the receiver
- move this component away from the receiver
- plug this component into a different outlet so that component and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

*The above instructions apply only to units which will be operated in the United States.*

**LaserDisc** LaserDisc is a trademark of Pioneer Electronic Corporation.

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**PIONEER ELECTRONICS [USA] INC.** 5000 Airport Plaza Drive P.O. Box 1720, Long Beach, California 90801-1720 U.S.A.  
**PIONEER ELECTRONICS OF CANADA, INC.** 505 Cochrane Drive, Markham, Ontario L3R 6B8 Canada



## LIMITED WARRANTY

The manufacturer warrants that this product is free from defects in material and workmanship.

If merchandise is found defective, return to retailer within one year from date of purchase, and the manufacturer will repair or replace, without charge, with reasonable equivalent product.

There are no other expressed or implied warranties.

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

**NOTE:**

All common carriers (plane, train, ship, bus, etc.) are responsible for any damage to your luggage incurred while it is in their custody.