

 **PIONEER®**
The Art of Entertainment

Manual



LASERDISC PLAYER

LD-V4300D

• This manual is applicable to the LD - V4300D/PGZ type.

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 9120 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911
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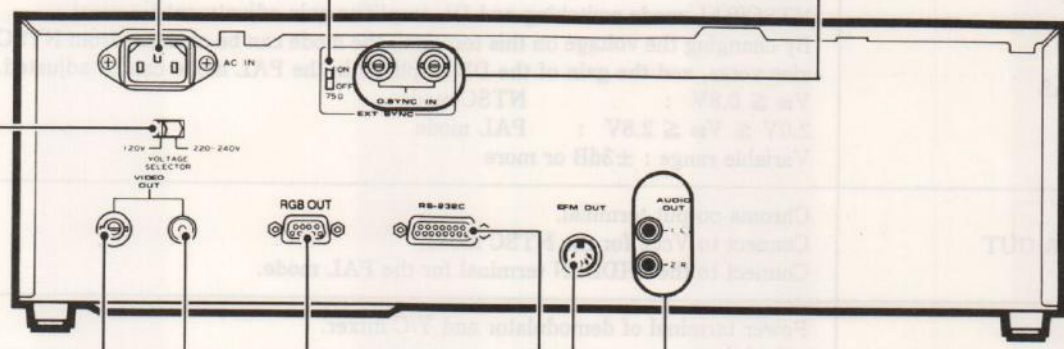
11. PANEL FACILITIES

~ AC IN
 Connect this to a wall socket (120 or 220-240V AC, 50/60Hz) using a triple-conductor power cord. A suitable cord should be obtained from your dealer.

VOLTAGE SELECTOR (120V/220-240V AC)
 Used to change the operating voltage of the player. Set the selector to the mains voltage in your area.

EXT SYNC termination selector
 This switch is used for selecting whether the signal input to EXT SYNC IN is given 75 Ω termination within the player (ON position), or looped through (OFF position).

EXT SYNC IN, OUT terminals (BNC jacks)
IN : Connects to the sync generator in the event that the main unit is operated in external sync mode.
O.(OUT) : Can be connected to EXT SYNC IN terminal of second player.
NOTE:
 • Set the EXT SYNC termination selector in accordance with the conditions of use.



VIDEO OUT terminals (RCA jack, BNC jack)
 These terminals are connected to the video input jack of the TV monitor. The same signals are output from both terminals.

AUDIO OUT terminals (RCA jacks)
 For connection to a stereo amplifier (LD, AUX etc.)

RGB terminal (D-SUB 9 pin)
 Used for connection to the RGB monitor.
 1. GND
 2. GND
 3. RED
 4. GREEN
 5. BLUE
 6. NC
 7. NC
 8. Composite sync.
 9. PAL/NTSC (PAL=H/NTSC=L)

EFM OUT terminal (5 pin DIN)
 To connect an LD-ROM adaptor.
 1. PAL/NTSC (PAL=H/NTSC=L)
 2. GND
 3. Audio L (ON=H/OFF=L)
 4. EFM
 5. Audio R (ON=H/OFF=L)

RS-232C INTERFACE CONNECTOR (D-SUB 15 pin)
 Used for serial interface connection to a computer or controller.

PARK indicator

- Indicates that the pickup is at the park position (extreme inner circumference) and in standby status.
- Blinks during opening/closing operation of the disc table, and goes off when opening/closing is completed.
- Lights up when a disc exists in the player.

PAL and NTSC indicators

- Displays the type of disc being played back during disc playback.
- In standby status, indicates the setting of the PAL/NTSC SELECT button.

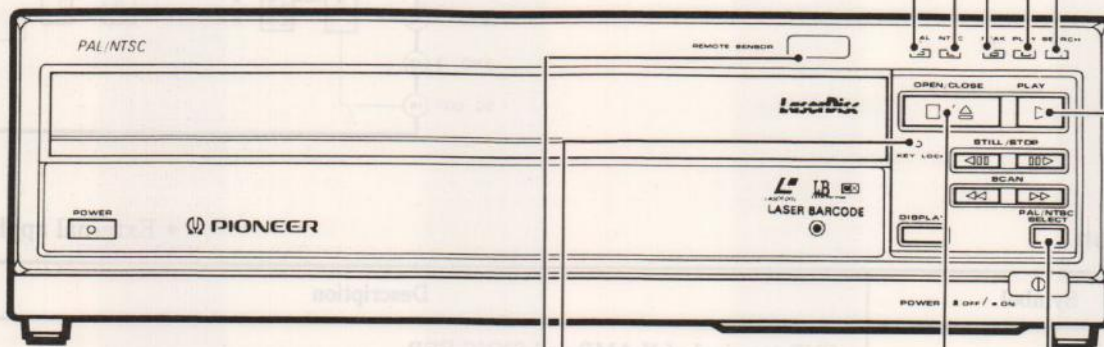
PLAY indicator

Lights during playback.
Blink when the disc rotation starts/stops.

SEARCH indicator

Lights during execution of search.

PLAY (▶) button



REMOTE SENSOR window

When using the optional remote control unit in the wireless format, the infrared commands from the unit are received here.

Receiving unit for infrared signals when using the optional bar code reader UC-V104BC in the wireless mode.

KEY LOCK indicator

Lit when the KEY LOCK command is entered from the external control unit.

When this indicator is lit, entries are not accepted from operation buttons other than the power switch. Also, entries are not accepted from the operation buttons of the separately sold remote control unit.

PAL/NTSC SELECT button

Chooses whether PAL signal or NTSC signal shall be output as the squelch signal after the power has been turned on.

This button can be manipulated while the disc is not being played back.

The PAL indicator or the NTSC indicator lights up to indicate the selection status.

NOTE:

This button is invalid during disc playback.

OPEN/CLOSE (■ / ▲) button

This button is used to open and close the disc table. Setting a disc on the disc table then pressing this button retracts the disc table into the player. Pressing this button during player stops play. When pressed again, the table will be extended from the player.

SCAN (◀◀, ▶▶) button

This is for quickly finding a particular point in the program from which you wish to play the disc. Scanning continues for as long as you keep the SCAN button depressed.

- ▶▶ : Forward direction
- ◀◀ : Reverse direction

DISC TABLE

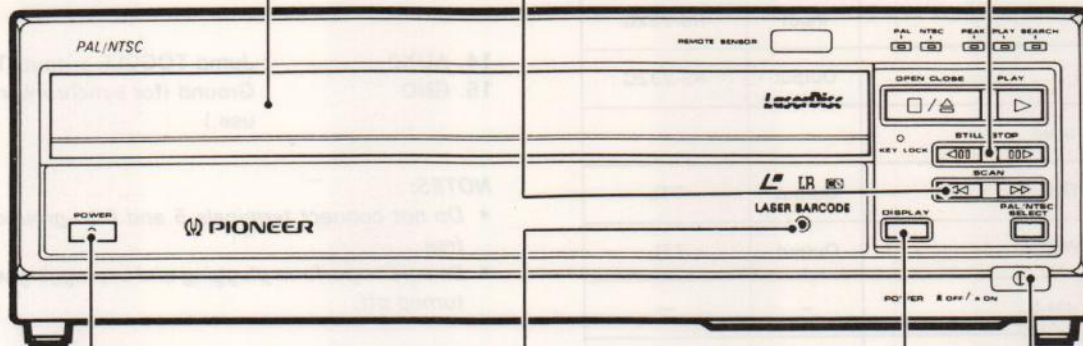
When power is switched on, and OPEN/CLOSE button is pressed, the disc table is expelled outward.

STILL/STEP (◀■, ■▶) button**Functions only during CAV disc playback.**

When either end of the button is pressed, the unit will enter frame-by-frame playback. Then, when the ■▶ end is pressed, the picture will advance forward frame-by-frame. When the ◀■ end is pressed, the picture will reverse frame-by-frame.

NOTE:

If this button is pressed during CLV disc playback, "CLV" appears on the screen to indicate that the button does not function.

**POWER indicator**

When power is turned on, the indicator lights up.

**LASER BARCODE terminal
(stereo miniature phone jack)**

A terminal for connecting an optional remote control unit RU-V103 in the wired mode.

To be connected when using the optional bar code reader UC-V104BC in the wired mode.

POWER switch

Press to turn the power on and off.

DISPLAY button

This button is used to display or erase chapter number and frame numbers on the TV screen.

When the power is turned ON with this button pressed, the function switches to setting mode.

NOTE:

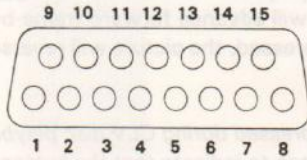
- During CLV disc playback, elapsed time numbers will be displayed in place of frame numbers.
- When only the DISPLAY button is pressed, the display appears and reappears alternately each time the button is pressed.

12. INTERFACE CONNECTOR TERMINALS

Used when external control is performed by using a controller or computer.

[Shape]

15 pin D-SUB connector

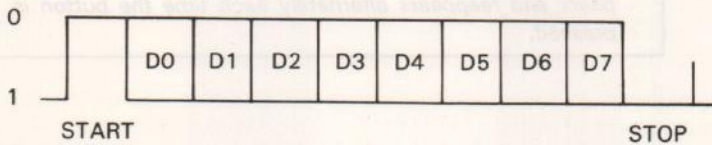


[Terminal names]

Pin No.	Terminal	I/O	Level
1	GND	-	-
2	TxD	Output	RS-232C
3	RxD	Input	RS-232C
4	DTR	Output	RS-232C
5	Not used	-	-
6	V SYNC	Output	TTL
7	H SYNC	Output	TTL
8	Not used	-	-
9	TxD	Output	TTL
10	RxD	Input	TTL
11	GND	-	-
12	DUMP	Output	-
13	AUX1	Output	TTL
14	AUX2	Output	TTL
15	GND	-	-

- Signals for both the RS-232C level (No.2 and 3) and TTL level (No. 9 and 10) are provided. However, they cannot be used at the same time. They also cannot be connected together.
- The following is the data format:

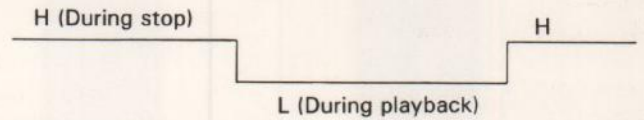
1 START + 8 DATA + 1 STOP



- By setting the FUNCTION switch, the baud rate can be set to either 9600 bits/sec, 4800 bits/sec or 1200 bits/sec.

[Function]

- 1. GND : Ground (TxD, RxD use)
- 2. TxD : Transmitted Data (RS-232C)
- 3. RxD : Received Data (RS-232C)
- 4. DTR : Data Terminal Ready (RS-232C)
- 6. V SYNC : Playback vertical sync output (TTL)
- 7. H SYNC : Playback horizontal sync output (TTL)
- 9. TxD : Transmitted data (TTL)
- 10. RxD : Received data (TTL)
- 11. GND : Ground
- 12. DUMP : Audio CH2 signal output
- 13. AUX1 : Video indicator output (TTL)
High during stop but low during screen playback.



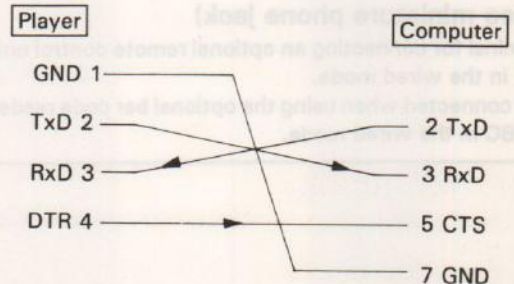
- 14. AUX2 : Jump TOGGLE output (TTL)
- 15. GND : Ground (for synchronizing signal output use.)

NOTES:

- Do not connect terminals 5 and 8 to ground; make sure it is free.
- Be sure to perform plugging and unplugging when the power is turned off.

CONNECTIONS TO COMPUTER RS-232C PORTS

Connect the player TxD, RxD and GND to the computer RxD, TxD and GND respectively. Although TxD and RxD are provided for both RS-232C and TTL levels, they cannot be used at the same time. The player DTR (Terminal 4) is connected to the computer CTS (Clear to Send), if necessary. (Use a separately sold interface cable.)



In regard to the data format, it has 1 start bit, 8 data bits, and 1 stop bit.

13. SPECIFICATIONS

1. General

System and Disc specifications ... LaserVision Videodisc system

Maximum playing time

30 cm (12-inch) CAV disc	30 min/side
30 cm (12-inch) CLV disc	60 min/side
20 cm (8-inch) CAV disc	14 min/side
20 cm (8-inch) CLV disc	20 min/side

Spindle motor speed (When 30 cm disc is used.)

During PAL disc playback

CAV disc	1500 rpm
CLV disc	1500 - 500 rpm

During NTSC disc playback

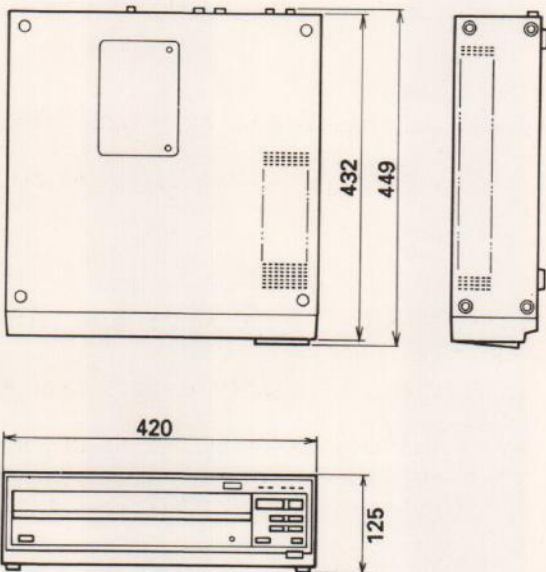
CAV disc	1800 rpm
CLV disc	1800 - 600 rpm

Power requirements 120/220-240 V AC (switchable), 50/60Hz

Max. power consumption 120 V 0.8 A/220-240 V 0.4 A

Net weight (without package) 12.6kg (28 lb)

Dimensions 420(W) x 449(D) x 125(H) mm
16-9/16(W) x 16-15/16(D) x 4-15/16(H) in



Operating temperature	+5°C to +35°C (41°F to 95°F)
Operating humidity	5% to 90% (There should be no condensation.)

2. Video characteristics

Format	PAL/NTSC (automatic switchover)
Video output	
Level	1 Vp-p nominal sync. negative, terminated
Impedance	75 Ω unbalanced
Terminal	BNC jack, RCA jack

3. Audio characteristics

Audio output	Two-channel: stereo or two individual channels
Level	200 mV nominal
Terminal	Two RCA-jacks

4. Functions

[Operations provided by player front panel function buttons]

Function	CAV disc	CLV disc
PLAY	YES	YES
REJECT	YES	YES
SCAN FWD.REV	YES	YES
STILL/STEP FWD.REV	YES	NO
DISPLAY ON/OFF	YES	YES
PAL/NTSC	Automatic switchover during playback	

[Operations by a separately sold remote control unit]

Function	CAV disc	CLV disc
PLAY	YES	YES
PAUSE	YES	YES
REJECT	YES	YES
REPEAT MODE	YES	YES
STILL/STEP FWD.REV, STILL	YES	NO
MULTI-SPEED FWD.REV	YES	NO
SCAN FWD.REV	YES	YES
AUDIO SELECT	YES	YES
VIDEO ON/OFF	YES	YES
DISPLAY ON/OFF	YES	YES
CLEAR	YES	YES
FRAME NUMBER SEARCH	YES	YES
TIME NUMBER SEARCH	NO	YES
CHAPTER NUMBER SEARCH	YES*	YES*

* Enabled when a disc with recorded chapter numbers is played back.

[Other Function]

- CX system ... Auto selection operation when a disc with recorded CX auto selection codes is played back.

5. Other Terminals

- LASER BARCODE (front panel) ... Stereo miniature phone jack
- INTERFACE CONNECTOR (rear panel) ... 15 pin, D-SUB connector
- EFM OUT (rear panel) ... 5 pin, DIN connector
- RGB OUT (rear panel) ... 9 pin, D-SUB connector
- EXT SYNC IN/OUT ... BNC jacks

6. Accessories

- Operating instructions 1
- Audio connecting cord 1
- Video connecting cord 1

NOTE:

The playback time depends on the content of a disc.
Specifications and design subject to possible modifications without notice, due to improvements.



This symbol shows that the bar code can be used for the Laser Barcode system. Use a bar code marked with this symbol.

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