LaserDisc™

PIONEER®
The Art of Entertainment

INDUSTRIAL LASERDISC™ PLAYER

CLD-V2400

Quality, convenience and versatility make the CLD-V2400 ideal for the classroom.

As schools and training facilities discover the educational benefits of LaserDisc players, demand is growing for innovative new features. With its unmatched experience in LaserDisc player technology, Pioneer is able to meet this demand with the CLD-V2400. This is the first LaserDisc player that can play LaserDiscs and CDs, and control them both by either barcode or computer. This flexibility provides a range of options and makes the CLD-V2400 the ideal model for educational applications.

LaserBarcode System Makes Learning Effective, Easy and Fun

The LaserBarcode system is a simplified means of remote control that links text, pictures and other printed materials to the LaserDisc player. Tracing the optional LaserBarcode Reader across the barcode instantly instructs the LD player to execute the playback commands encoded in that barcode. Teachers can do the scanning, or they can let students do it themselves to heighten their interest in the material.

LaserBarcodes are already being incorporated into many classroom support materials. In addition, computer software packages for Macintosh, DOS and Windows are available for generating your own barcodes. By creating your own barcodes, you can integrate your present resource materials with laser videodisc subject matter. The CLD-V2400's LaserBarcode system conforms to industry standards, ensuring full compatibility.

CD Play and Bar Code CD Further Expand Teaching Possibilities

This versatile player can also be used to play ordinary CDs, CD singles, and CDV discs. And what's more, it provides new levels of control convenience. Using barcodes, a teacher can instantly access any part of a CD audio disc to hear a certain musical passage or to repeat a lesson in language learning. It is even possible to control the playback of CDs by computer.

In fact, with the CLD-V2400 controlled by computer or Bar Code CD and index search, it is possible to access CD audio accurately to a block address. This means you can directly access a word, a syllable or even a single musical note.

RS-232C Interface For Computer Control

The RS-232C interface allows the CLD-V2400 to be connected to Apple II, Macintosh, IBM, Amiga and many other computers. It responds to the same command language used to control the LD-V4400 and the LD-V2200, so programs developed for these models can be used with the CLD-V2400 with little or no modification.

Finest Quality Video and Audio

The LaserDisc optical system guarantees that video clarity is superb. And thanks to the non-contact laser pickup, quality will never deteriorate. The CLD-V2400 also delivers high quality digital sound, equivalent to that of a compact disc player. It has four audio channels(two digital, two analog),offering a high degree of flexibility . S/N ratio is an outstanding 95 dB.

Auto Start and Auto Repeat Allow "Set and Forget" Operation

When a disc is loaded and the player is in the "power on" mode, play will begin automatically when the main power is switched on. Play can also be set to repeat endlessly, and can be stopped manually, by remote control, or with the main power. This means you can set the player up at an exhibition, or retail display and never have to touch it – it will begin to play when the room's power is turned on and stop when it is turned off. Businesses will find this extremely practical for point-of- purchase and point-of-information applications, as well.

Large-size Remote Control

The CLD-V2400 comes equipped with a wireless remote control unit. The large size of this unit makes it easy to use, and has proven very popular for educational use.

Text Display for Titles, Instructions and Comments

The CLD-V2400 makes it easy to display text over the picture. 10 lines of 20 characters, upper and lower case, can be displayed over still or motion video. Many common European characters are also available.

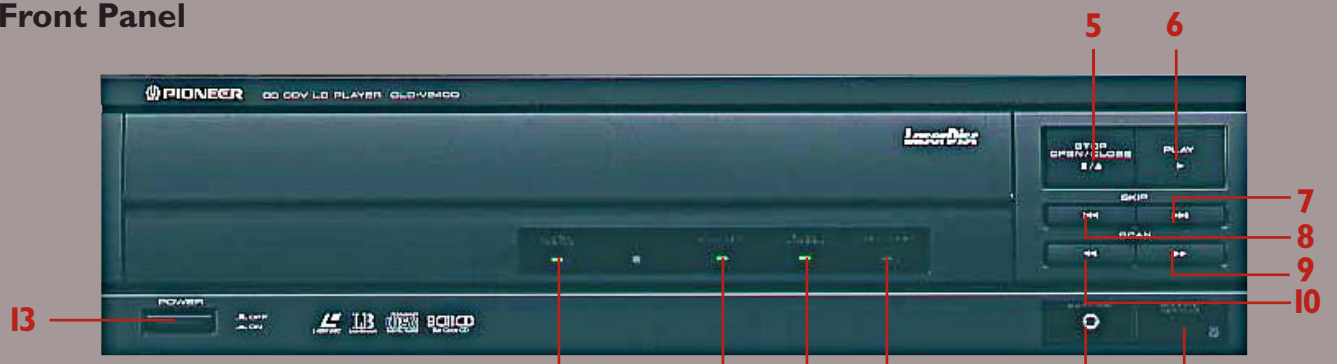
Built for Safety and Reliability

The CLD-V2400's frame is strong enough that a 12" TV can be placed on top of it. A three-prong grounded power cord is used for safety. And both inside and out, the CLD-V2400 is especially designed to stand up to extensive classroom use.

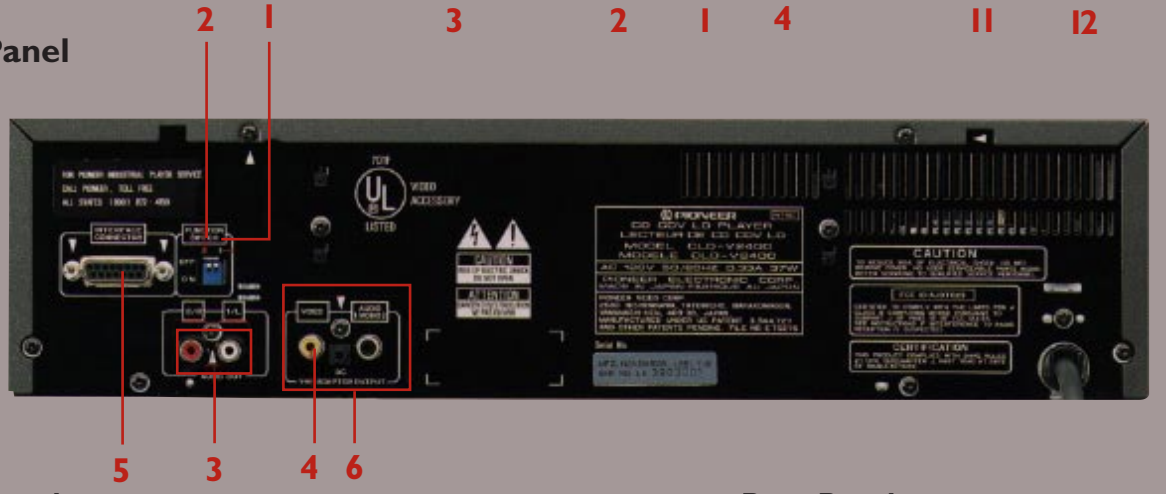
RF Modulator

The RF modulator is provided so that the CLD-V2400 can be connected to any television set or video monitor.

Front Panel



Rear Panel

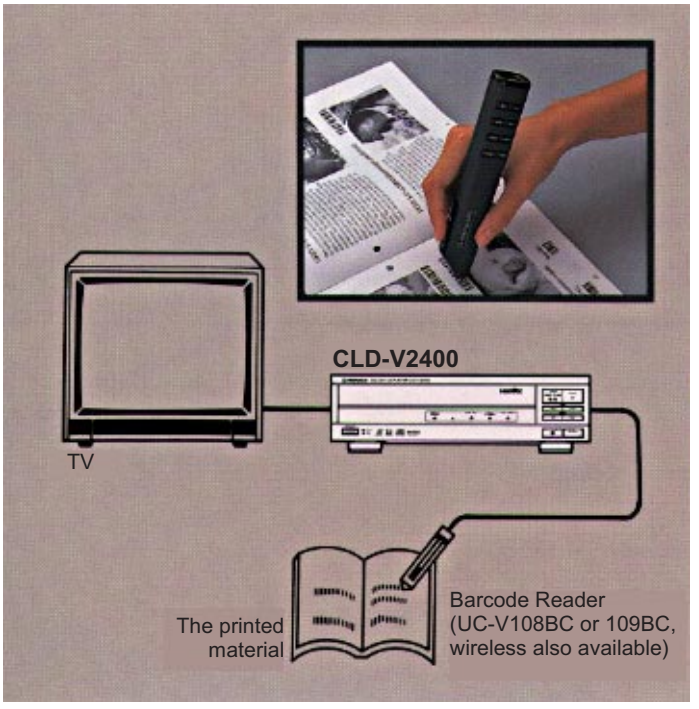


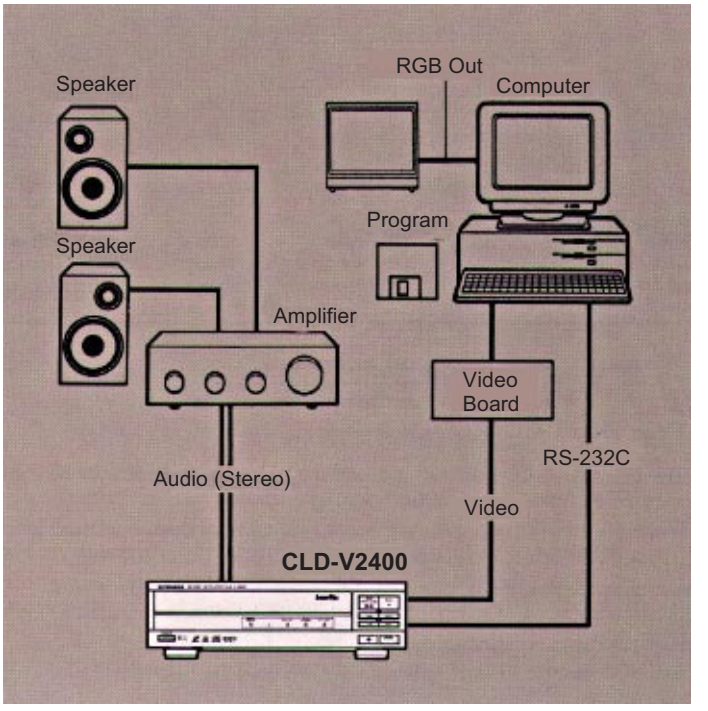
Front Panel

1 Play/Stand by Indicator
2 Disc Set Indicator
3 Digital Sound Indicator
4 Key Lock Indicator
5 Stop, Open/Close
6 Play
7 Skip FWD
8 Skip REV
9 Scan FWD
10 Scan REV
11 Barcode Jack
12 Remote Sensor Window
13 Power Switch

Rear Panel

1 Baud Rate Dip Switch (4.8K/1.2K bps)
2 Start Mode Dip Switch (Auto Start On/Off)
3 Audio Out (40% Mode.) (RCA pin)
4 Video Out (RCA)
5 RS-232C Serial Port (D-Sub 15pin)
6 VHF Adaptor Output terminals





CLD-V2400 Specifications

General		
Mechanism		
Pick up	Laser Diode (780 nano-meter)	
Loading Mechanism	Full Automatic	
Power Requirement		
Primary Power	120 V ± 10%	50/60Hz
Power Consumption	Less than 29 Watts (Typical)	Less than 78 Watts (Max.)
Others	3 Prong Plug	
Applied Safety Regulations		
Safety	UL & CSA	UL-1409, CSA 22.2 No 1
Radiation	FCC	
Environment		
Operating Temperature	5˚C ~ 35˚C	
Operating Humidity	5% ~ 90%	No Moisture Condensation
Dimensions (W x H x D)	16-9/16 x 4-13/16 x 16-1/4 inches (420 x 122 x 413 mm)	Excluding buttons
Weight	16 lbs. 12 oz. (7.6 kg)	
Playable Discs		
Signal Type	Laser Disc	NTSC
	CD (Including CDV)	
Size, Type	3/5 inches (CD)	
	5 inches (CDV)	
	8/12 inches (LD)	
Material	Acrylic, Policarbonate	
Video Signal		
Output Level	1 Volt p-p ± 10%	75 Ω terminated
Signal to Noise ratio	49dB	Un-weighted
Horizontal Resolution	420 lines	
Audio		
Output Connector	RCA pin jack (one pair)	Auto Digital
	Single Monaural pin jack	

Digital Audio (LD and CD)		
Output Level	200mVolts ± 15%	1kHz at –20dB
Signal to Noise Ratio	95dB	
Frequency Response	20 ~ 20KHz ± 0.5dB	
Analog Audio (LD only)		
Output Level	200mVolts ± 15%	1kHz at 40% modulation
Signal to Noise Ratio	72dB (CX on)	
Frequency Response	20 ~ 20kHz ± 3B	
Operating Time		
Stop Time	Less than 5 sec.	
Search Time		
1 ~ 54,000 (Frame)	4.2 sec. (Typical)	
5 ~ 55 Min. (Time)	11 sec. (Typical)	
Functions		
Loading	Fully Automatic Tray	
User's Display	20 characters x 10 lines	With European Characters
RCU	Wired/Wireless	SR Type
LaserBarcode	LB, LB2	
Bar Code CD		
RS-232C Serial I/F	D-sub 15pin (LD & CD)	4.8k/1.2k
Commands Protocol	Same as LD-V2200	With Additional Commands
Function Switch	Dip Switch	
Player Accessories		
1. Operating Instructions	4. Remote Control (Large Size)	
2. Video Cable	5. RF Modulator	
3. Audio Cable (Stereo)		

Note: 1. Design and specifications are subject to modification without notice.
2. Apple II and Macintosh are trademarks of Apple Computer, Inc.
3. IBM is a trademark of IBM Corporation.
4. CX is a trademark of CBS, Inc.
5. Amiga is a trademark of Commodore Business Machines, Inc.
6. MS-DOS and Windows are trademarks of Microsoft Corporation.
7. Bar 'n' Coder is a trademark of Pioneer New Media Technologies, Inc.
8. Bar Code CD is a trademark of Sony Corporation.

Options

LaserBarcode Readers

UC-V109BC

This slim, pen-type model features a built-in remote control function to enable wired or wireless LaserBarcode or Bar Code CD operation. Direct player operation is also possible with function buttons that support eight popular player commands.

UC-V108BC

Designed for easy, one-step scanning, this model comes with built-in remote control to allow wired or wireless operation and is both LaserBarcode and Bar Code CD compatible. Direct player operation is also possible with function buttons that support ten popular player commands.

Bar 'n' Coder

This software package supports Macintosh-based barcode printing.

LaserDisc Controller

MS-DOS-based barcode printing software.

BarKoder for Windows

Windows 3.1-based barcode printing software.

Interface Cables

CC-03

DB-15 male to DB-25 male

For Apple II Super serial Card.

CC-04

DB-15 male to circular 8 pin.
For Macintosh and Apple II GS.

CC-12

DB-15 male to DB-25 female.

For IBM PS/2 25-pin connector.

CC-13

DB-15 male to DB-9 female.
For IBM PC/AT style 9-pin connector.

LaserDisc™
LaserDisc is a trademark of Pioneer Electronic Corporation.

LASER DISC
This mark is the world-wide Laserdisc mark.

LaserBarcode 2
This mark expresses compatibility with the LaserBarcode systems.

COMPACT disc DIGITAL AUDIO

BC II CD Bar Code CD
This mark expresses compatibility with Bar Code CD systems.

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