LD-V8000
INDUSTRIAL LASERDISC™ PLAYER

THE
WORLD'S
MOST
ADVANCED
INDUSTRIAL
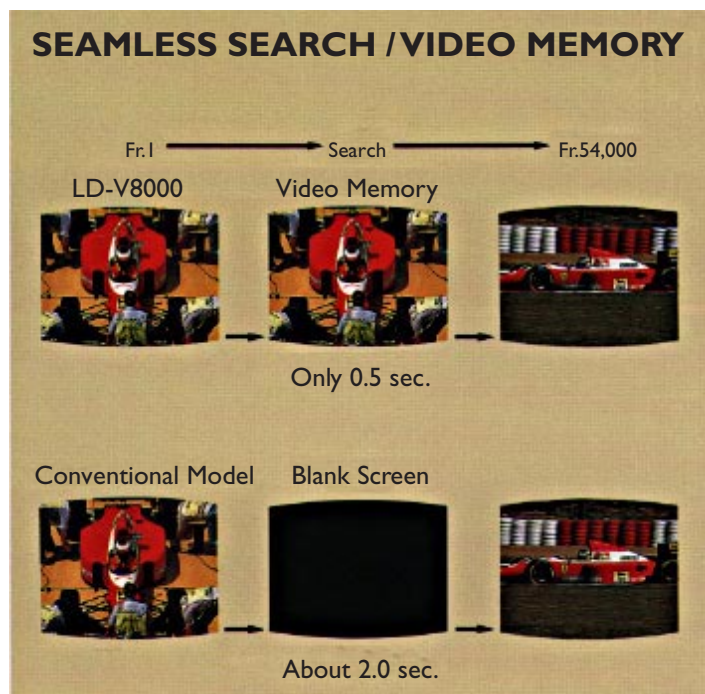# LASER VIDEODISC
PLAYER

The LD-V8000 is the first in a whole new generation of LaserDisk Players

Pioneer has opened up a whole new world of possibilities for professional users of interactive LaserDiscs in the shape of the advanced LD-V8000. Making available a host of exciting new tools to work with, this state-of-the-art industrial LaserDisc player gives designers and engineers the ability to work more creatively and effectively than ever before. Pioneer's LD-V8000 sets a higher standard of excellence for a new era in laser video.

Seamless Search

The video memory eliminates blank pauses during picture search with both CLV and CAV discs by storing the current picture until the next is available. Moreover, the LD-V8000 stores images in either frame or field mode and features a two-field digital memory plus a digital time base corrector for enhanced picture quality.

SEAMLESS SEARCH / VIDEO MEMORY

Fr.1 → Search → Fr.54,000

LD-V8000   Video Memory

Only 0.5 sec.

Conventional Model   Blank Screen

About 2.0 sec.

Rapid Access

Employing a linear motor and optical detector which ensure high precision and reliability with a minimum of moving parts, the LD-V8000 can search through a CAV disc less than half a second or a CLV disc in 4 seconds or less.

Interactive CLV

Allowing freeze frame and variable speed play with CLV as well as CAV discs, the LD-V8000 makes possible interactive CLV for the first time ever.
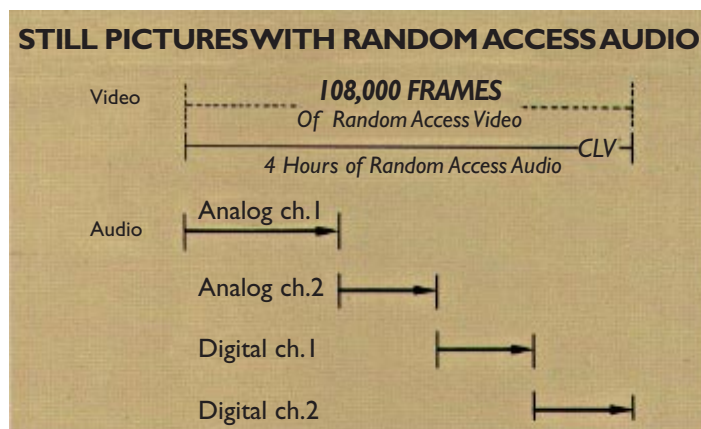
Four Audio Channels

The LD-V8000 offers unprecedented versatility in the shape of two digital and two analog audio tracks that enable four-language soundtracks, four presentation levels or four hours of random access audio per CLV disc side.

AUDIO TRACKS APPLICATION EXAMPLE

Video

Audio		
Analog ch.1	For Trainee (English)
Analog ch.2	For Trainee (Spanish)
Digital ch.1	For Customer (English)
Digital ch.2	For Customer (Spanish)

Still Pictures with Random Access Audio

The LD-V8000 can hold any still picture on the screen while playing any portion of any of the four audio tracks. With a CLV disc, this feature combines up to 4 hours' random access audio with random access to 108,000 still pictures.

STILL PICTURES WITH RANDOM ACCESS AUDIO

Video — 108,000 FRAMES Of Random Access Video — CLV

4 Hours of Random Access Audio

Audio — Analog ch.1 — Analog ch.2 — Digital ch.1 — Digital ch.2

LaserBarcode System Compatibility

The LD-V8000 can be used with Pioneer's LaserBarcode system, in which a handheld scanner is traced across a barcode to instruct the player to execute specific commands. Ideal for lectures, classes or presentations, the system enables wired or wireless remote control operation using an optional barcode reader.

On-Screen Player Configuration

On-screen menus make it easy to access and configure a wide range of functions, including those previously operable only via physical switch controls.

Full Screen Text Overlay

The LD-V8000 allows you to display 12 lines of 20 characters (English plus common European) over still or moving video or against a blue or black background.

Sync Capability

The rear-panel SYNC IN port allows you to input an external composite sinc signal, while "Loop through" chaining for multiple player applications can be implemented by outputting through the second SYNC IN port.

RS-232C Interface

This 15-pin interface allows connection with a wide variety of computers using standard RS-232C protocol. Utilizing a mnemonic language based on LD-V4200 commands, the LD-V8000 is compatible with systems designed to control the LD-V4200 and can be used with the same cables and controllers.

Program Dump

This feature loads the program control software into the LD-V8000's microprocessor. In addition, Level 2 applications operate in both CAV and CLV modes.

Auto Repeat

Hardware and software selectable, AUTO REPEAT automatically restarts the disc when the end of side is reached.

Auto Play

Another feature that's both hardware and software selectable, AUTO PLAY operates in the POWER ON mode with a disc inserted or in the DISC LOAD mode when the tray is closed with a disc inserted.

A Choice of Remote Controllers

The LD-V8000 is compatible with either the RU-V6000T (LD-V6000 Series) or RU-V103 (LD-V2000 Series) remote control units, both of which are optionally available.

EFM Out Put Terminal

This terminal facilitates EFM signal output when LD-ROM discs containing digital data are played, enabling the LD-V8000 to combine LD-ROM and LaserDisc playback for multimedia applications.

Open Architecture

OPEN ARCHITECTURE allows interactive system designers to customize the LD-V8000 by building on existing software, modifying the instruction sets of the resident EPROMs, etc. Moreover, space and signals are provided for the installation of extra RAMs, ROMs, alternative connectors and processors.
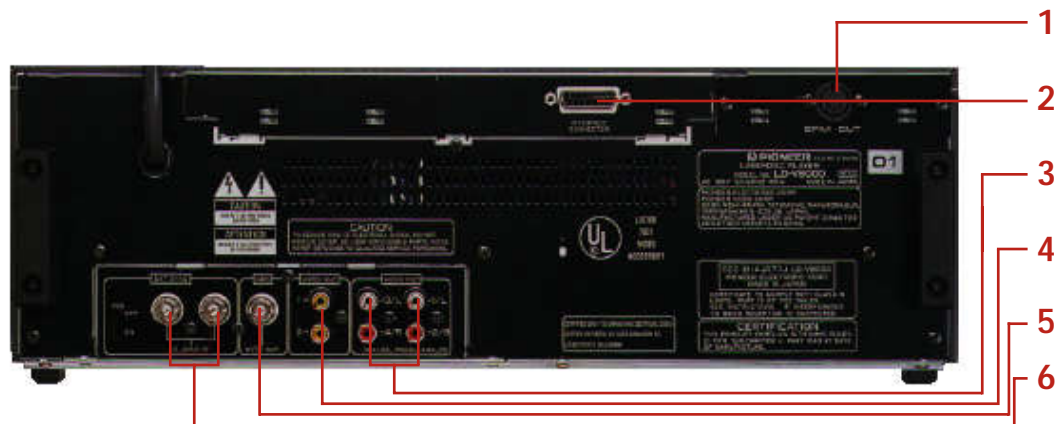
Front Panel

1 Remote Control Sensor
2 Program Run Indicator
3 Status Indication
4 Operation Controls
5 Power
6 External Control Jack

Rear Panel

1 EFM Output
2 RS-232C Port
3 Audio Output
4 Video Output
5 Sync Out
6 Sync In

■ LD-V8000 Specifications

General	
System	LaserVision Videodisc Player
Level	1,2,3
Spindle motor speed	
Standard play (CAV) disc	1,800 RPM
Extended play (CLV) Disc	1,800–600 RPM (When using 12-inch disc)
Power requirements	AC 120 V, 50/60 Hz
Max. power consumption	100 W
Dimensions (W x **H** x **D)**	16-17/32 x 5-1/2 x 17-13/16 in.
	(420 x 140 x 453 mm)
Net weight (without package)	32.4 lbs. (14.7 kg)
Operating temperature	41°F to 95°F (+5°C to +35°C)
Operating humidity	5% to 90%
	(There should be no moisture
	condensation)

Disc	
LaserVision Videodisc	
Maximum playing time*	
12-inch standard play disc	30 min/side
12-inch extended play disc	60 min/side
8-inch standard play disc	14 min/side
8-inch extended play disc	20 min/side
(*Actual playback time differs for each disc.)	

Video	
Format	NTSC specifications
Video output	
Level	1Vp-p nominal, sync. Negative,
Impedance	terminated 75 Ω unbalanced
Terminal	Pin jack

Audio	
Output	
AUTO/DIGITAL	2 channels (1/L, 2/R)
ANALOG ONLY	2 channels (3/L, 4/R)
Level	500 mV nominal
	(1 kHz 100% modulation, 50k terminated)
Terminal	Two RCA jacks

External Sync	
Composite sync	
Level	MIN: +2 ~ –2V, MAX: +2 ~ –4V
Impedance	75 Ω
Terminal	
Input	BNC jack (2)
Output	BNC jack (1)

External Controls	
Remote Control (Front panel)	
Terminal	Stereo miniature phone jack
I/O Port (Rear Panel)	RS-232C
Terminal	D-sub, 15 pin

EFM Output	
Terminal	5 pin, DIN

Options	
RU-V6000T	Remote Control Unit
RU-V103	Remote Control Unit

Note:
CX is a trademark of CBS Inc.
Specifications and design are subject to possible modifications without notice, due to improvements.

■ Options

Barcode Readers

UC-V109BC

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

DA-V1000

LD-ROM Adapter
The LD-ROM adapter DA-V1000 installs between a host computer and a LaserDisc player. SCSI and RS-232C interfaces enable transfer of digital data and control of the LaserDisc player. Pioneer provides device drivers that allow compatibility with a variety of host computers, including the Apple Macintosh and various IBM and compatible personal computers.

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.