



Product Information Bulletin

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FEATURES	PIONEER INDUSTRIAL LASERDISC PLAYER MODEL #			
	LD-V8000	LD-V4400	CLD-V2600	CLD-V2400
I. Interactivity				
• Level I¹ Remote Control Unit (RCU)	Wired or Wireless Optional RU-V6000T RU-V103 (CU-V102; CU-V113)	Wireless Optional RU-V103 ²	Wireless CU-V113 Included; RU-V103 Optional	Wireless CU-V113 Included; RU-V103 Optional
Barcode Capabilities ³	LB as of 1/81 ⁴ LB2 w/DWY 1202, 1194+	LB2	LB2 & Barcode CD	LB, LB2 & Barcode CD
Barcode Compatibility	UC-V108BC UC-V109BC UC-V104BC ⁵	UC-V108BC UC-V109BC UC-V104BC ⁵	UC-V108BC UC-V109BC UC-V104BC ⁵	UC-V108BC UC-V109BC UC-V104BC ⁵
Front Panel Motion Keys	Yes	Yes	Yes	Yes
• Level II⁶ Programmable Memory Capacity	7K	N/A	N/A	N/A
Battery Back-Up	Yes	N/A	N/A	N/A
Execute Program from from Memory or Disc	Yes	N/A	N/A	N/A
Special Level II Features CLV ⁷	Yes/Frame Acc.	N/A	N/A	N/A
Video Memory	Yes	N/A	N/A	N/A
• Level III⁸ Cable Interface for External Computer ⁹	CC-03, CC-04, CC-12, CC-13, CK-15P	CC-03, CC-04, CC-12, CC-13, CK-15P	CC-03, CC-04, CC-12, CC-13, CK-15P	CC-03, CC-04, CC-12, CC-13, CK-15P
Command Set	Mnemonic	Mnemonic	Mnemonic	Mnemonic
II. Disc Access				
• Disc Type¹⁰	CAV, CLV	CAV, CLV	CAV, CLV CD, CDV	CAV, CLV CD, CDV
• Access Speed CAV (Worst Case)	0.5 Sec.	After initialization 1 Sec.	5 Sec.	5 Sec.
CLV (Worst Case) (5 min. - 55 min.)	Less than 4 Sec.	Less than 6 Sec.	Less than 10 Sec.	Less than 10 Sec.
• Searches By Frame #	CAV	CAV	CAV	CAV
By Chapter #	CAV/CLV	CAV/CLV	CAV/CLV	CAV/CLV
By Time # ¹²	Hr. Min. Sec. Fr.	Hr. Min. Sec. Fr. ¹³	Hr. Min. Sec. Fr. ¹⁴	Hr. Min. Sec. Fr. ¹⁴
Special Searches	Frame Accur. CLV "Seamless Search" Track Jump	Frame Accur. CLV Track Jump	CD Searches: Track, Index, Time, Block	CD Searches: Track, Index, Time, Block
• Multi-Speed Forward & Reverse	CAV/CLV	CAV	CAV	CAV

Pioneer Industrial LaserDisc Player Comparison Chart

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	Discontinued	Discontinued	Discontinued	Discontinued
LC-V330	LD-V2000	LD-V2200	LD-V4200	LD-V6000A
Optional RU-V103 Requires LBA/15	Wireless CU-V102 Included; RU-V103 Optional	Wireless CU-V113 Included; RU-V103 Optional	Wired Optional RU-V101; Opt. RU-V103 Requires LBA/15	Wired or Wireless Optional RU-V6000T; Opt. RU-V103 Requires LBA/25
LB Adapter Req'd LBA/15	LB (w/UC-V104BC - Mode 1)	LB	LB Adapter Req'd LBA/15	LB Adapter Req'd LBA/15
Pioneer BC Readers w/ LBA/15	only UC-V104BC (in mode 1)	UC-V108BC UC-V109BC UC-V104BC	Pioneer BC Readers w/ LBA/15	Pioneer BC Readers w/ LBA/15
No	No	Yes	Yes	No
N/A	N/A	N/A	N/A	7K
N/A	N/A	N/A	N/A	Yes
N/A	N/A	N/A	N/A	Yes
N/A	N/A	N/A	N/A	No
N/A	N/A	N/A	N/A	No
CC-03, CC-04, CC-12, CC-13, doesn't work with INFO Window	Avail. 3rd Party	CC-03, CC-04, CC-12, CC-13, CK-15P	CC-03, CC-04, CC-12, CC-13, CK-15P	CC-05, CK-232
Mnemonic	Pioneer SR (System Remote)	Mnemonic	Mnemonic	ASCII-HEX Binary
CAV, CLV	CAV, CLV	CAV, CLV	CAV, CLV	CAV, CLV
3 Sec. ¹⁰	8 sec.	5 Sec.	3 Sec.	2 Sec.
Less than 10 Sec.	—	—	Less than 10 Sec.	Less than 12 Sec.
CAV	CAV	CAV	CAV	CAV
CAV/CLV	CAV/CLV	CAV/CLV	CAV/CLV	CAV/CLV
Hr. Min. Sec.	Hr. Min. Sec.	Hr. Min. Sec.	Hr. Min. Sec.	Hr. Min. Sec.
N/A	N/A	N/A	"Blinkless" ±100 Frames	Track Jump
CAV	CAV	CAV	CAV	CAV

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PIONEER INDUSTRIAL LASERDISC PLAYER MODEL

FEATURES	LD-V8000	LD-V4400	CLD-V2600	CLD-V2400
III. Player Operation				
Power-On Start ¹⁵	Selectable	Selectable	Selectable	Selectable
Load-Start ¹⁶	Selectable	Selectable	Selectable	Selectable
Auto/Side Repeat	Selectable	Selectable	Selectable	Selectable
Function Settings	On Screen Parameter Settings	On Screen Parameter Settings	4 Switches Rear of Player	2 Switches Rear of Player
Character Text Overlay	12 lines x 20 char	12 lines x 20 char	12 lines x 20 char	10 lines x 20 char
IV. Hardware Characteristics				
• Front Panel				
Illuminated Display	No	No	Yes	No
Indicator Lights	Yes	Yes	Yes	Yes
Scan Control	Buttons	Buttons	2 Speed Dial	Buttons
Headphone Jack	No	No	Yes	No
External Control Jack for wired LBC Reader & Remote Control Connections	External Control Jack	Barcode Jack	Barcode Jack	Barcode Jack
• Rear Panel				
Video Output				
Composite Output	2-RCA	1-BNC, 1-RCA	1-RCA	1-RCA
S-Video Output	No	No	Yes	No
RF Modulator	No	No	Built-in	Adapter Provided
Audio Output	4 Channels 2-Digital and 2-Analog	2 Channels 2-Digital or 2-Analog	2 Channels 2-Digital or 2-Analog	2 Channels ¹⁷ 2-Digital or 2-Analog
EFM Port	Yes, as of 1/91	No	No	No
Built-in Composite Sync GenOut	Yes	No	No	No
Composite Sync	In & Loop-through	In & Loop-through	No	No
• Other				
Sub Carrier	No	No	No	No
CX Decoder ¹⁰	Yes	Yes	Yes	Yes
Lock Down Mechanism	Auto	Auto	Auto	Auto
Dimensions (w x h x d) ²⁰	17" x 6" x 18"	16.5" x 5" x 17"	16.5" x 5" x 15.5"	16.5" x 5" x 16.25"
Weight	35 lbs.	28 lbs.	17 lbs.	16 lbs. 12 oz.
V. LD-ROM				
LD-ROM Capability ²¹	Yes with DA-V1000	Yes with Optional board Model #UK-V112	No	No

Pioneer Industrial LaserDisc Player Comparison Chart (Cont.)

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	Discontinued	Discontinued	Discontinued	Discontinued
LC-V330	LD-V2000	LD-V2200	LD-V4200	LD-V6000A
N/A	Automatic	Selectable	Selectable	Selectable
N/A	Automatic	Selectable	Selectable	No
N/A	Automatic	Automatic	Selectable	Selectable
4 Switches Inside Front Panel	None	2 Switches Rear of Player	8 Switches Front of Player	2 sets of Switches - 6 & 10 Switches - Rear of Player
8 lines x 20 char	None	11 lines x 20 char	11 lines x 20 char	9 lines x 20 char
No	No	No	No	No
No	Yes	Yes	Yes	Yes
None	None	Buttons	None	None
No	No	No	No	No
None	LaserBarcode Jack	LaserBarcode Jack	None	Remote Control Terminal
1-RCA	1-RCA	1-RCA	1-RCA	1-BNC
No	No	No	No	No
No	Built-in	Yes	No	Yes
2 Channels 2- Analog	2 Channels 2-Analog	2 Channels 2- Analog	2 Channels 2- Analog 2 Digital w/ DA-V1000 ¹⁸	2 Channels 2-Analog 2 Digital w/ DA-V1000 ¹⁸
No	No	No	Yes	Yes
No	No	No	No	No
No	No	No	No	In & Loop-through
No	No	No	No	In & Loop-through
Yes	Yes	Yes	Yes	Yes
Manual	Auto	Auto	Auto	Manual
28.75" x 41.75" x 24.75"	17" x 4" x 16"	17" x 5" x 18"	17" x 4" x 16"	17" x 6" x 16"
255 lbs. 11 oz.	19 lbs.	21 lbs.	21 lbs.	31 lbs.
No	No	No	Yes with optional DA-V1000	Yes with optional DA-V1000

Notes and Product Information

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- 1** In Level I the player is controlled in a most basic way, with the front panel buttons or by sending direct player commands from the Remote Control Unit or from a LaserBarcode Reader. This level is used most often for linear play or playing selected segments or frames.
- 2** The RU-V103, CU-V113 and CU-V102 wireless remote control units can be connected to the LaserBarcode Terminal of the players via wired connection.

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This logo denotes LaserBarcode compatibility. It is a trademark of Pioneer Electronics Corp.



This logo denotes LaserBarcode 2 compatibility. It is a trademark of Pioneer Electronics Corp.



This logo denotes Barcode CD compatibility. It is a trademark of SONY Corp.

- The LaserBarcode 2 standard includes all of the “original” LaserBarcode commands as well as 15 “extended” commands that make possible barcode access of CLV discs, CAV multi-speed playback and Digital Audio playback. UC-V108BC, UC-V109BC are Pioneer Barcode Readers (UC-V104BC is a discontinued Pioneer reader). For details about Barcodes, see Product Information Bulletins #1E - LaserBarcode, LaserBarcode 2 & Barcode CD Player Control; #2D - Bar'N'Coder; #3C - The LaserDisc Controller; #4 - LaserBarcode Adapters; #7B - Pioneer Barcode Reader UC-V104BC (Discontinued); #14B - Pioneer Autoscanning Barcode Reader UC-V108BC; #15A - Pioneer Barcode Reader UC-V109BC & #16A - Pioneer Barcode-Compatible Industrial LaserDisc Players; #20 - BarKoder for Windows. For more information see: Tech Bulletin #132B - LB2 Standard Commands and Logo; Tech Bulletin #140A - Barcode CD and CLD-V2400.
- 4** EPROM Upgrade Kits providing LaserBarcode capability, Level II Video Memory and and Audio Sync Lock Option are available for LD-V8000s manufactured before 1/91.
 - 5** The barcode reader UC-104BC is discontinued.
 - 6** In Level II, program data is sent to 7K memory in the Pioneer LD-V8000 or the LD-V6000A. Level II programs are loaded into memory from data encoded onto audio track 2 of the videodisc, or by commands sent from the remote control unit, or by commands sent from an external computer. Level II provides for a high degree of interactivity without a requiring a computer to be connected to each player while the application is running.
 - 7** There are certain restrictions when using CLV discs with Level II programming. Call PNT Engineering for more information.
 - 8** In Level III, commands are sent from an external computer to control the player.
 - 9** See Product Information Bulletin #6, Cable Interface Chart, for cables to use with specific computers.

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- 10** CAV - Constant Angular Velocity discs; CLV - Constant Linear Velocity discs; CDs - Compact Disc Audio; CDV - Compact Disc Video.
- 11** The LC-V330 searches to any of 72 video discs in the system in less than 25 seconds.
- 12** All Pioneer Industrial Players will search to frame numbers on all CAV Discs. They will search to Chapter numbers on CAV or CLV discs that have chapter numbers encoded on them. All players will search to Hrs. and Mins. and Secs. if a CLV disc is encoded with Extended 24-bit Laserdisc Code. The LD-V8000, the LD-V4400, the CLD-V2400, and the CLD-V2600 can access Hrs., Min., Sec., and Frames. The LD-V8000 holds a still frame after completing the CLV frame-accurate search; the LD-V4400 immediately plays. The CLD-V2400 and the CLD-V2600 pause after completing the CLV frame search.
- 13** The LD-V4400 will search to a frame number and immediately begin playing. It will not hold a still frame on CLV discs. All Pioneer LaserDisc Players hold a still frame on CAV discs.
- 14** The CLD-2600 and the CLD-V2400 will search to a CLV frame number and pause the disc. These players will not display the CLV frame number on screen, but it can be verified by issuing a "?F" command.
- 15** Power-On Start: When power is turned on and there is a disc in the drawer, playback is started automatically.
- 16** Load-Start: When a loaded disc tray is pushed in, playback is started automatically.
- 17** The CLD-V2600 also includes a front panel headphone jack with volume control.
- 18** The DA-V1000 is an LD-ROM Adapter Box; it also decodes digital audio. The DA-V1000 is discontinued.
- 19** CX Decoding is a noise reduction system used to reduce noise which may be caused during recording of the disc. It improves signal-to-noise ratio. CX is a trademark of CBS Inc.
- 20** For player dimensions to 1/32nd of an inch, refer to Player Specifications or contact PNT Engineering Support.
- 21** LD ROM is a combination of LaserDisc and CD-ROM technology. A CAV LD-ROM disc holds 270Mb of digital data and a one-half hour of full-motion video per side. A CLV LD-ROM disc holds 540Mb of digital data and one-hour of full-motion video per side.