

Pioneer LaserBarcode™ System

The simplest way to bring multimedia to Education, Training and Corporate Presentations.

The Pioneer LaserBarcode System is the most effective way to bring the benefits of laser discs and CD audio discs to your presentations. It's simple, flexible and allows you to get the maximum value from commercial laser discs with pre-printed barcodes. Making player control as easy as a wave of your hand, LaserBarcode is perfect for classroom teachers, trainers or students.

The LaserBarcode System consists of a Pioneer LaserBarcode™ player, barcode reader and LaserBarcode. By simply tracing the LaserBarcode pen over the pre-printed barcodes, the player can be instructed to perform many simple and complex functions.

LJB LaserBarcode
The original LaserBarcode format standardized on barcodes for controlling CAV (standard play) laser discs. With the commands encoded in a LaserBarcode, one can easily locate any frame or chapter on a disc. Commands include: searching for specific chapters, locating and playing video still frames and motion sequences, as well as selecting the correct audio channel. And with software available to create your own barcodes, customizing is an easy option. All current Pioneer LaserDisc players can be operated with the LaserBarcode system.

LJB LaserBarcode 2
The LaserBarcode standard has been extended to encompass an even wider range of commands — including control of CLV (extended play) laser discs. The extension is called LaserBarcode2 or LB2, and has its own mark to indicate compatibility. Pioneer LaserDisc players capable of receiving these commands carry this mark. The barcodes, themselves, also will be appended with a 2 to signify that they are part of the extended command set.

The LaserBarcode2 extends on permits an instructor to use barcodes to control special effects such as slow motion on CAV discs. For CLV discs, LaserBarcode2 makes possible time searches and time segment plays. So with LaserBarcode2, it is now possible to achieve the same kind of precise control of CLV discs that was previously only possible with CAV discs. This means that thousands of theatrical films, musical performances and instructional programs can now be made highly interactive.



BCIIICD Bar Code CD

Bar Code CD provides all the same power of interactivity to teaching and learning with CD audio discs. The Pioneer CLD-V2400 LaserDisc player can play CDs and control them with Bar Code CD commands. With Bar Code CD, an instructor or student can directly access any track or index on a disc quickly and with complete accuracy. By playing a time segment, a user can hear any portion of a disc with precision to the nearest eighth of a second — fine enough to isolate a word of speech or a note of music.

Barcode offers the following benefits:

- Random Access that is easy and fast
- Remote control without fumbling
- Hundreds of Education discs with barcoded guides
- Valuable interactivity for Corporate training and presentations
- Easy creation of new barcodes for existing discs or lesson plans
- Integrated learning materials from major publishers using barcode to unite textbooks and video and audio

UC-V108BC

Autoscanning Barcode Reader

The UC-V108BC is the ultimate barcode reader for ease-of-use and control of Pioneer LaserDisc players. With it, one can combine the simplicity of the LaserBarcode system with the most useful direct commands of a remote control. A unique automatic scanning feature allows a user to successfully scan a barcode every time.

The automatic scanner traces the barcode while the reader itself is held stationary. This ensures consistently successful scans. The remote control buttons are located on the barcode reader handle. All of the most frequently used functions are included: Play, Pause, Still, Frame/Step Advance and Reverse, Scan Forward and Reverse, Chapter Skip/Track Skip, Audio Select and Display. Together, the barcode capability and remote functions provide control of the pace and content of instruction from up to 25 feet away.



UC-V109BC

Barcode Reader

Just scan and command!

This is the newest addition to the Pioneer Barcode line up. The UC-V109BC takes advantage of some of the best features of its predecessors. The pen-like shape makes it easy to hold, even for small hands. And its improved scanability makes it even more ideal for uncomplicated control of the Pioneer LaserDisc player.

In addition, the most frequently used remote commands have been built-in. The user can now direct the player to play, pause, scan forward/reverse, chapter and track skip forward/reverse by simply pressing the appropriate command button found on the side of the reader.

The UC-V109BC operates by simply tracing the light-tipped end over the barcode while holding the "Play" button. The command is automatically sent to the player if the reader is wired to the LaserDisc player. Pressing the send button in



the wireless mode will transmit the barcode command via an infrared beam up to a distance of 25 feet.

The UC-V109BC can be used wired or wireless with any Pioneer LD-V2200, CLD-V2400, LD-V4400 or LD-V8000 LaserDisc Player and is LaserBarcode, LaserBarcode2 and Bar Code CD compatible.

Key features of Pioneer Barcode Readers (UC-V108BC and UC-V109BC):

- Extremely lightweight
- Easily operated by users of any skill level
- No computer necessary
- Wired or wireless operation
- Many courseware packages, textbooks and training manuals are now published with barcodes
- Compatible with LaserBarcode, LaserBarcode2 and Bar Code CD

LBC-NC3

Bar 'n' Coder Version 3.1
For Macintosh Users

Bar 'n' Coder 3.0 software was created especially for Macintosh with Hypercard to generate barcodes for use with the Pioneer LaserBarcode System. New with Version 3.0 is the capability to make barcodes to control CLV laser discs and CD audio discs.

Many options and commands are available including chapter searches, frame searches, play frame(s), digital or analog audio on or off, and audio channel selection. To make a barcode, simply input the desired frame numbers, from a laser disc or time codes from a CD or CLV laser disc, select from several command menu screens and input up to two lines of descriptive text. Codes can be developed with the player connected to the computer, allowing for a "rehearsal" with any Pioneer LaserDisc player.

Bar 'n' Coder 3.0 uses any Mac-compatible printer. Barcodes can be saved to separate Hypercard stacks which conform to page layouts for Avery labels. Mac and

Hypercard tools can also be used to "cut and paste" barcodes directly into word processing documents or to print onto labels, perfect for customizing lesson plans or training materials.

- Easy to use
- Creates barcodes for laser discs and CD audio discs
- Developed for users of any skill level
- Leads you through the program step-by-step
- Allows you to exercise your creativity
- Uses any Mac-compatible printer
- Makes barcodes compatible with LaserBarcode, LaserBarcode2 and Bar Code CD

LBC-DOS3

LaserDisc Controller Version 3.0
For DOS Users

Developed especially for the DOS system, this software package allows the user to easily create barcodes to accompany any laser disc or CD-Audio disc. It uses a Point 'n' Click style menu to create and save up to 999 presentations. Each presentation can have up to 8,000 barcoded tracks. LaserBarcode, LaserBarcode2 or Bar Code CD commands can be developed with up to 7 lines of descriptive text, then rehearsed, printed directly, saved or imported into a word processed document. An automatic format has been included for printing onto 1" or 2" standard labels.

The program consists of a main menu which lists the most often used system capabilities, including barcode generation. The

Direct Mode sub-menu allows you to directly control a connected LaserDisc player from the computer, greatly facilitating presentation development. The Utility sub-menu allows the user to customize the Pop-up Help menus, Help Screens, Menu Option Screens and Data Entry Screens, as well as select preferred program color scheme.

LaserDisc Controller will work with any IBM PC/XT/AT, PS/1, PS/2, or 100% IBM compatible computer with a DOS operating system of 3.1 or higher. It requires 512K RAM or higher. The barcodes can be printed on an IBM/Epson or Hewlett Packard compatible printer able to print graphics.

LBC-WINI

BarKoder for Windows Version 2.0

This is an extremely versatile barcode generating program designed to run under Microsoft Windows 3.1. It's highly visual, easy to install and even easier to use. BarKoder creates barcodes conforming to the LaserBarcode, LaserBarcode2 and Bar Code CD standards, giving the user a wide range of options for utilizing CAV and CLV laser discs as well as CD-Audio discs.

In addition to standard commands, BarKoder's LaserBarcode2 capability gives you options for special effect commands, such as slow reverse play. A Custom option has been included, extending BarKoder's usefulness into the future. Any new commands that may be added to the

LaserBarcode standard can be generated simply by entering the published number set. The program can be used connected to a Pioneer LaserDisc player for easy rehearsal of codes, or with the computer only. Barcodes are generated on-the-fly and immediately reflect any input changes, so it's fast and easy.

Barcodes can be sent directly to a printer, saved for later use or pasted into any Windows application that supports the clipboard, such as WinWord, AmiPro or Excel. A two line description can be included with each barcode. The print format conforms to Avery #5160 labels (3 across by 10 down) and supports most Windows printer drivers.

LaserBarcode Adaptors

LaserBarcode can be used with all the Pioneer LaserDisc players listed below, although some earlier models may require an adaptor. The LBA-15 and the LBA-25 LaserBarcode Adaptors connect easily to the RS-232C port of the designated Pioneer LaserDisc

players. With the adaptor, the player can receive commands from the LaserBarcode scanner in either wired or wireless operation. The LaserBarcode adaptors do not support the LaserBarcode2 commands.

Capability	LD-V2000 (discontinued)	LD-V2200 (discontinued)	CLD-V2400	CLD-V2600	LD-V4200 (discontinued)	LD-V4400	LD-V6000 (discontinued)	LD-V8000	LD-V330
LaserBarcode	Yes (UC-V104BC only)	Yes	Yes	Yes	Yes with adaptor LBA-15	Yes	Yes with adaptor LBA-25	Yes (see note 1)	Yes with adaptor LBA-15
LaserBarcode2	No	No	Yes	No	Yes	No	Yes (see note 2)	No	No
Bar Code CD	No	No	Yes	Yes	No	No	No	No	No

Note: LD-V8000 players with serial numbers greater than KJ3306076 (after December 1991) have built-in LaserBarcode capability. All others require adaptor LBA-15. Alternatively, these players can be updated by contacting Pioneer Electronics Service and requesting an upgrade kit.

Note: LD-V6000 players with serial numbers greater than KJ3912276 (after August 1992) have built-in LaserBarcode2 capability. LD-V8000s earlier than this model can be updated by contacting Pioneer Electronics Service and requesting an upgrade kit.

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LJB The LaserBarcode mark expresses compatibility with LaserBarcode systems.

LJB The LaserBarcode2 mark expresses compatibility with LaserBarcode2 format.

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