# Pioneer

## INDUSTRIAL DVD-VIDEO PLAYER
# DVD-V7400

**COMPACT, VERSATILE AND HIGHLY DURABLE,
PIONEER'S NEXT GENERATION PLAYER IS
DESIGNED TO MEET THE NEEDS OF
DVD PROFESSIONALS.**

1 Power ON Start

2 Frame Search

3 RS-232C Command Protocol

4 Component Video

**DVD VIDEO** ™

# Pioneer's amazing new DVD-V7400 brings together the highest level of reliability and versatile functions demanded by industrial DVD-Video users in a compact, lightweight and easy-to-operate player.

Pioneer launched the world's first true industrial DVD-Video player and remains the world's leading DVD player manufacturer. Pioneer's latest model, the new DVD-V7400, is the top-of-the-line industrial DVD-Video player on the market today. Designed for applications that require reliability in rigorous operating environments, the DVD-V7400 is a significant improvement over conventional industrial-use models.

The DVD-V7400 is ideal for a variety of professional and industrial applications including in-store sales promotions; education; corporate training; museums and exhibitions; video walls; trade shows and public presentations. Take a closer look and you'll be amazed at what this DVD-Video player can do for your business.

To ensure easy operation, all major functions can be accessed via a newly designed wireless remote or optional wired remote. In addition, most user interface functions, such as on screen menu buttons, can be accessed via a standard PS/2 mouse which connects directly to the front panel of the player. To round off the package, Pioneer has added compatibility with DVD Barcode™ and LaserBarcode™ control systems.

Pioneer has also built in playback compatibility for both NTSC and PAL video standards. The following disc formats and disc media formats are supported:

| Multiple Disc Formats | Multiple Disc Media |
|---|---|
| - Video CD | - DVD |
| - CD-DA | - DVD-R |
| - DVD-Video | - CD |
| - DVD Hybrid (DVD-Video segments) | - CD-R |

The player also adds component video and DTS audio stream outputs to the host of other hardware connections.

## Ideal for Industrial and Professional Applications

### ■ High Reliability

Equipped with a high-performance brushless spindle motor combined with a heat and dust resistant enclosure, this player is designed for use in tough environments. The DVD-V7400 offers the high level of durability that professional applications demand.

### ■ Compact & Lightweight

The DVD-V7400 has a small foot-print and takes up little space on a desk, shelf or store counter. For multiple player installations, two players will fit side-by-side in a standard video rack system. Weighing only 10 lb. 6 oz. (4.7 kg), the player is easy to transport. Measurements: 8-1/4"(W) x 4-11/16"(H) x 16-1/8"(D) (210 x 119 x 408 mm).

## Hardware Connections

**The DVD-V7400 features an expanded range of hardware connections, including component video output BNC terminals (Y, Pr, Pb), two composite video outputs (BNC/RCA) and an S-Video connector.**

### VERSATILE INTERFACE CAPABILITIES
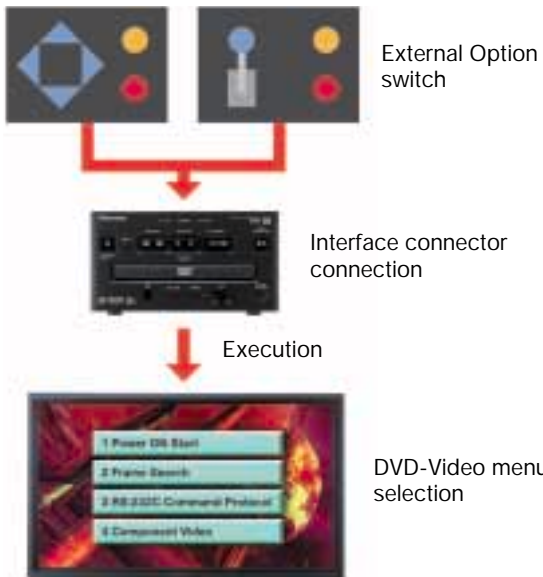
#### ● Mouse Control

By connecting a standard PS/2 mouse directly to the front panel of the player, users can perform a variety of operations including menu selections (during DVD video playback), player control, and set up, similar to operating a computer with a mouse.

#### ● Interface Options

The DB-15 computer interface connector provides additional signal lines that allow simple external switches to select DVD menu items or execute Barcode Stack/Command Stack functions. For example, with a simple contact closure switch, 70 separate commands including Play, Pause, etc., can be performed. This allows sophisticated custom control from a simple and inexpensive user input device.

**External Option Connection Conceptual Diagram**

External Option switch

Interface connector connection

Execution

DVD-Video menu selection

#### ● RS-232C Control

The DVD-V7400 is equipped with an RS-232C terminal that enables connection to an external device such as a computer or custom controller. The player's mnemonic command protocol is backward compatible with Pioneer's other industrial LaserDisc and DVD-Video players. This compatibility makes it possible to use LaserDisc control programs with little revision and to control features unique to DVD, such as multi-angle and sub-picture.

#### ● DVD Barcode

With DVD Barcode, video and audio playback control can be achieved by scanning printed barcodes with the optional barcode reader. In addition, DVD Barcode is fully compatible with the LD Laser Barcode system™, so the same barcode reader can be used for both DVD and LD discs.

#### ● Touch Screen Support

The DVD-V7400 supports X-Y coordinate RS-232 commands that allow it to be directly connected to special video monitor touch screens (available through 3rd party developers). This feature makes the DVD-Video player with touch screen integration a reliable and cost-effective interactive display for use in museums, art galleries, shopping malls or hotels.

#### ● User Response Tracking

The DVD-V7400 is able to track user selections and store the data in the player's non-volatile Flash RAM. The data can then be retrieved to evaluate user selections and preferences. This feature is perfect for kiosk and point of purchase & information installations.

#### ● Wireless and Wired Remote Control

For extra flexibility, users can operate the DVD-V7400 using the wireless remote control accessory or the optional wired remote control unit.

## A Wide Range of Professional Features

### ■ Faster Searches & Seamless Frame Searches

The DVD-V7400 features an advanced frame search function that offers the precision of random access, frame accurate search required in many industrial applications. Compared with the previous 1st generation product, the DVD-V7400 cuts average search times in half (depending on the search point). Moreover, all frame search operations are now completely seamless with the player's expanded video buffer.

### ■ External Sync Playback

An external black burst sync signal can be applied and looped through the EXT SYNC terminals to enable clean switching with other video sources and frame synchronization when using multiple players.

### ■ Barcode Stack/Command Stack

This function allows the user to save video play lists into the player's non-volatile Flash RAM (up to 300 command lines, organized in up to 150 groups) for automatic recall and display. Playback of single commands or stacks of several linked commands is possible. Users can input command sequences via remote control, barcode reader or RS-232C control.

### ■ Video Blackboard

With a standard PS/2 mouse users can draw over video to illustrate key images on the screen. Graphics can be created over still or moving video images. The user can add free-hand and pre-defined graphic objects in eight colors and enter text using a standard PS/2 keyboard. Video in & out points can be saved in the player's memory to enable automatic or special display of graphics and text during video playback.

### ■ Weekly Timer and Power ONStart

This function lets you simultaneously set the player's ON and OFF times and set particular video segments for playback on each day of the week. For added flexibility the timer memory in the DVD-V7400 has been expanded to accomodate up to 24 events per week. Users can distribute the commands throughout the week as required by their specific application. In addition, it is now possible for the player to immediately display the DVD disc's first-play menu upon Power ON Start. This unique function is ideal for exhibits, point-of-purchase & information, and retail display applications.

## Options

### Interface Cables

**CC-03**
DB-15 male to DB-25 male
For Apple II, II+ or IIe

**CC-04**
DB-15 male to circular 8-pin
For Apple Macintosh serial connector

**CC-12**
DB-15 male to DB-25 female
For PC 25-pin serial connector

**CC-13**
DB-15 male to DB-9 female
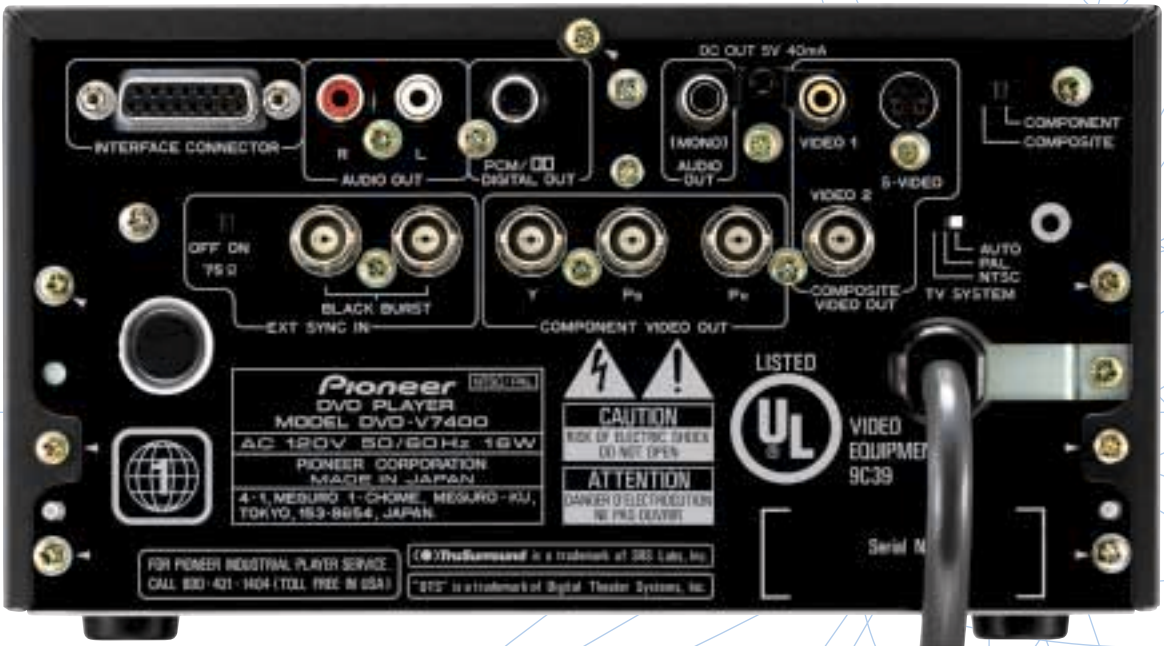For PC 9-pin serial connector

### DVD Barcode Readers

**UC-V109BC**
Barcode Reader

**UC-V108BC**
Automatic Scanning Barcode Reader

**DVD Barcode Software for Windws and Macintosh.**

### Wired/Wireless Remote Control Unit

**UC-V155**

# ■ DVD-V7400 Specifications
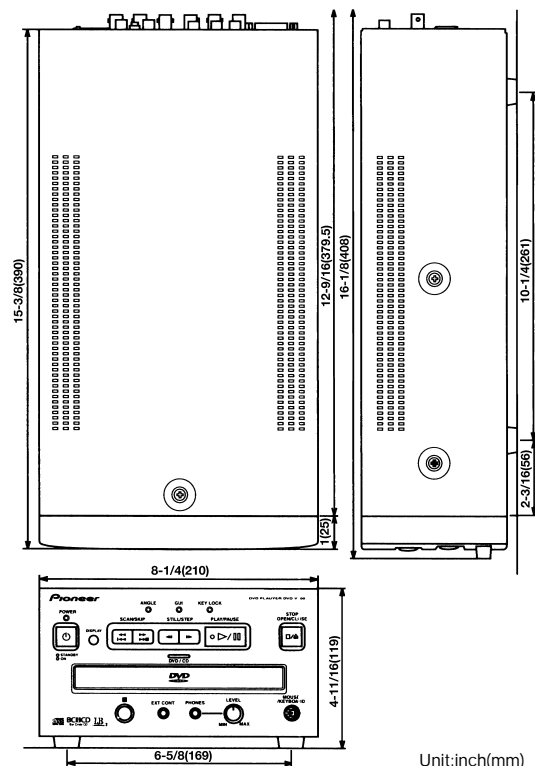
## General

| | |
|---|---|
| Format | DVD-Video, Video CD and CD-DA, Hybrid Disc (Pioneer format, NTSC only) |
| Laser | 650 nm wave length semiconductor laser for DVD media 780 nm wave length semiconductor laser for CD media |
| Power Requirement | AC 120V, 50 Hz/60 Hz |
| Power Consumption | 16 W (playback) 0.5 W (standby) |
| Weight | 10 lbs. 6 oz. 4.7 kg |
| Dimensions (WxHxD) | 8-1/4" x 4-11/16" x 16-1/8"  210 x 119 x 408 mm |

## Environment

| | |
|---|---|
| Operating Temperature | 41°F ~ 95°F   5°C ~ 35°C |
| Operating Humidity | Less than 85% (no condensation) |

## Playable Discs

| | |
|---|---|
| Disc Type | DVD-Video (NTSC/PAL), DVD Hybrid (Pioneer format, NTSC only) VCD (NTSC/PAL), 3.5" (8 cm) CD single |

## Safety Standards

| | |
|---|---|
| Safety | UL, FDA |
| Radiation | FCC (Class B) |

## Video Signal

| | |
|---|---|
| Output Level | 1 volt p-p (75 ohms load, synchronous load) |
| Video Output Terminal | RCA pin x 1, BNC |
| S Output | |
| Y Output Level | 1 volt p-p (75 ohms load, synchronous load) |
| C Output Level | 286 mV p-p (75 ohms load) |
| Component Video Output | |
| Y Output Level | 1 volt p-p (75 ohms load)  BNC |
| Pb Output Level | 0.7 volt p-p (75 ohms load)  BNC |
| Pr Output Level | 0.7 volt p-p (75 ohms load)  BNC |
| Signal to Noise Ratio | 60 dB or more |
| Horizontal Resolution | 500 lines or more |

## External Sync. Input

| | |
|---|---|
| Input Level | Black burst 0.3 volt p-p (75 ohms load)  BNC x 2 (loop-though) |

## Audio Output

| | |
|---|---|
| Audio Output Terminal | 200 mVrms (1 kHz, -20 dB) |
| Channels | 2 channels |
| Digital Audio Specifications | |
| Frequency Response | 4 Hz ~ 22 kHz (DVD fs : 48 kHz) 4Hz ~ 20kHz (CD) |
| Signal to Noise Ratio | 115 dB (average) |
| Dynamic Range | 98 dB (average) |
| Wow and Flitter | +/-0.001% or less at white peak (EIAJ) |

## Other Terminal

| | |
|---|---|
| Coaxial Digital Output | (AC-3/PCM/MPEG/DTS) RCA |
| Communication Interface | D-sub 15-pin |

## Functions

| | |
|---|---|
| RS-232C Serial I/F | D-sub 15-pin (DVD, CD, V-CD)  4.8 k/9.6 k (bps) |
| Barcode | DVD Barcode/LaserBarcode/Bar Code CD |
| Mouse/Key Board | PS/2 |
| RCU | Wireless  SR Type |
| External Sync Lock | Black burst |

## Player Accessories

| |
|---|
| Remote Control Unit   Video Cable x 1   Barcode Sheet |
| Cramper and Screw for RF Adaptor    Dry Battery    Audio Cable x 1 |
| Operating Instructions |

# ■ Dimensions



15-3/8(390)  12-9/16(379.5)  16-1/8(408)  10-1/4(261)  2-3/16(56)  1(25)

8-1/4(210)

4-11/16(119)

6-5/8(169)

Unit:inch(mm)



**Regional Management Information**
Because DVD players use a Regional Management Information System, playback is not possible if the disc region number differs from the player.
**Region #1**

Note:
1. Design and specifications are subject to change without notice.
2. Apple II and Macintosh are trademarks of Apple Computer, Inc.
3. IBM, IBM PC/AT and PS/2 are trademarks of IBM Corporation.
4. Bar 'n' Coder is a trademark of Pioneer New Media Technologies, Inc.
5. Bar Code CD is a trademark of Sony Corporation.

6. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
7. "Trusurround" is a trademark of SRS Labs, Inc.
8. "DTS" is a trademark of Digital Theater Systems, Inc.
9. All other product names and company names are registered trademarks of their respective owners



**DVD** VIDEO

**dts** DIGITAL OUT

**COMPACT disc** DIGITAL VIDEO

**BCIICD** Bar Code CD
*This mark expresses compatibility with Bar Code CD systems.*

**LB 2** LaserBarcode
*This mark expresses compatibility with the LaserBarcode systems.*

**(●)TruSurround**™

**DD DOLBY** ® **DIGITAL**

**SR**

**CONTACT**
PIONEER NEW MEDIA TECHNOLOGIES, INC. :http://www.pioneerusa.com
PIONEER CORPORATION URL : http://www.pioneer.co.jp

5508T J-FC(F)2-00 Printed in Japan