

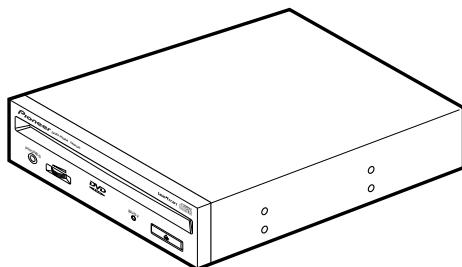
Pioneer

Operating Instructions

DVD-U04S

DVD-ROM DRIVE UNIT

English only version



English



Thank you for buying this PIONEER product. Please read through these operating instructions so you will know how to operate your unit properly. After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE:

RECORD THE MODEL NUMBER AND SERIAL NUMBER OF THIS EQUIPMENT BELOW. THE NUMBERS ARE ON THE TOP PANEL.

MODEL NO. DVD-U04S

SERIAL NO.

KEEP THESE NUMBERS FOR FUTURE USE.

This product complies with the EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

Ce produit est conforme aux directives relatives à la compatibilité électromagnétique (89/336/CEE, 92/31/CEE) et à la directive CE relative aux marquages (93/68/CEE).

Dieses Produkt entspricht den EMV-Richtlinien (89/336/EEC, 92/31/EEC) und CE-Markierungsrichtlinien (93/68/EEC).

Questo prodotto è conforme alle direttive EMC (89/336/CEE, 92/31/CEE) e alla direttiva sul marchio CE (93/68/CEE).

Dit produkt voldoet aan de EMC-richtlijnen (89/336/EEC en 92/31/EEC) en de CE-markeringsrichtlijn (93/68/EEC).

Denna produkt uppfyller föreskrifterna i EMC-direktiv (89/336/EEC, 92/31/EEC) och CE-märkningsdirektiv (93/68/EEC).

Este producto cumple con las Directivas EMC (89/336/CEE, 92/31/CEE) y Directiva de Marcación CE (93/68/CEE).

Este produto cumpre com as Directivas EMC (89/336/CEE, 92/31/CEE) e Directiva da Marcação CE (93/68/CEE).

Dette produkt er i overensstemmelse med direktiverne vedrørende elektromagnetisk kompatibilitet (89/336/EEC, 92/31/EEC) og CE-direktivet vedrørende mærkning (93/68/EEC).

WARNING!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning som överskrider gränsen för laserklass 1.

ADVARSEL:

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laitten käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

	사용자 안내문
B 급기기	이 기기는 비업무용으로 전자파 장애 검정을 받은 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

SAFETY INSTRUCTIONS

To ensure your personal safety and to maximize the full operating potential of your Drive, read and follow these safety precautions:

ENVIRONMENT - Please do not use the unit at places with much dust, high temperature, or high humidity. Please use the unit at a place where it is not subjected to vibrations or shocks.

POWER - Turn off your system and attached hardware devices before installation.

READ INSTRUCTIONS - Read all safety and operating instructions before the Drive is operated.

RETAIN INSTRUCTIONS - Retain the safety and operating instructions for future reference.

FOLLOW INSTRUCTIONS - Follow all operating and use instructions.

HEED WARNINGS - All warnings must be adhered to.

CLEANING - DO NOT use liquid, aerosol cleaners, or alcohol. Use only a damp cloth to clean the exterior housing.

WATER AND MOISTURE - DO NOT use this product near water.

POWER SOURCES - Operate this product from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult Authorized Pioneer Dealer.

OVERLOADING - DO NOT overload wall outlets and extension cords. Doing so can result in fire or electric shock.

OBJECT AND LIQUID ENTRY - Never push objects of any kind into this product. Touching dangerous voltage points may cause a short resulting in fire or electric shock. Do not spill liquid of any kind on this product.

CONDENSATION - Moisture will form in the operating section of the product causing performance to be impaired if it is brought from cool surroundings into a warmer environment. If you are moving the unit to a location with a warmer temperature, let the product stand for 1-2 hours in the new location before turning it back on.

SERVICING - Do not attempt to repair this product yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. (Refer to the enclosed Service and Support Card.)

IMPORTANT

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location: on top of the cover

**CLASS 1 LASER PRODUCT
LASER KLASSE 1**

For pluggable equipment the socket-outlet shall be installed near the equipment and shall be easily accessible.

SAFETY INSTRUCTIONS



RADIO SIGNAL INTERFERENCE - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ⇒ Reorient or relocate the receiving antenna.
- ⇒ Increase the separation between the equipment and receiver.
- ⇒ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ⇒ Consult the dealer or an experienced radio/TV technician for help.

[For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

[Pour le modèle Canadien]

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.



LASER DIODE - This product contains a laser diode. To assure continued safety, **DO NOT** remove any covers or attempt to gain access to the inside of the product.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:

USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

Information to User

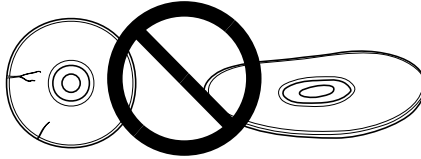
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

*The Generation of Acoustical Noise Is Less Than 70dB.
(ISO7779/DIN45635)*

SAFETY INSTRUCTIONS



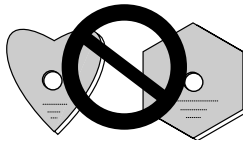
DO NOT use damaged, cracked, or warped discs. If they break inside the unit, they may damage the optics. The disc in the drive unit rotates at high speed.



DO NOT use non-standard discs, as these may adversely influence this unit and other equipment.



DO NOT play a CD having other shape than a circular disc, such as heart shaped disc, or malfunction may occur.



The enclosed device driver is for use with MS-DOS/Windows 3.XX. This driver is not required for use with Windows 95 or Windows 98.

* MS-DOS and Windows are trademarks of Microsoft Corporation.

FEATURES

- High-speed reading
Transfer rate (sustained):
maximum 13,500 kBytes/sec. (DVD-ROM)
maximum 6,000 kBytes/sec. (CD-ROM)

NOTE:

The data transfer rate may not be output due to disc conditions (scratches, etc.).

- High-speed access (Random average):
100 ms (DVD-ROM)
80 ms (CD-ROM)

- SCSI-2 interface specifications
- Buffer size: 512 kBytes
- Applicable discs
DVD-ROM (DVD-5, DVD-9)
DVD-V
DVD-R
CD-ROM Mode 1
CD-ROM XA Mode 2 (Form 1, 2)
CD-DA
CD-R, CD Extra, Video CD, CD-Text support
CD-RW/DVD-RW disc reading

NOTES:

This product can read out CD-RW/DVD-RW disc data. Note the following:

- (1) A little longer time is needed to sense a CD-RW/DVD-RW disc when the operation starts, compared with standard CD-ROM/DVD-ROM discs.*
- (2) Since playback signal level of CD-RW/DVD-RW is lower than the replicated CD/DVD discs, reading speed of those discs is lower than that of the replicated discs to ensure data reading.*
- (3) Blank discs, discs that you failed to write data or discs that session close processing has not been made - these discs cannot be used.*
- (4) The operations may not start or the data may not be read out under the following conditions: The quality of the recorded signal has deteriorated due to the dirt or scratches on the disc, or frequently rewrote discs.*

If you fail to start the operation, take out the disc and reinsert it to try again to start.

- Correspondence to Kodak Photo CD multisession
- Conforming to MPC-3 specifications
- Half-height size
- Slot in loading
- Windows 95 and Windows 98 (Plug and Play) supported

*Windows is a trademark of Microsoft Corporation.

A HARDWARE TOUR

Illustrations are provided in this chapter as a visual introduction of the Drive. Please familiarize yourself with these illustrations and refer to them when necessary to complete the installation and operation of the unit.

FRONT VIEW

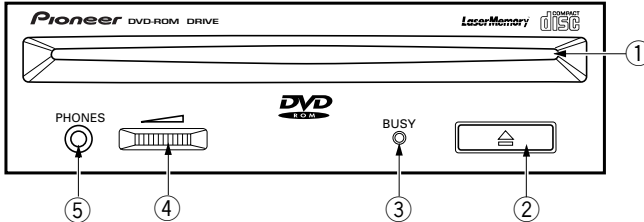


Fig. 1

① Disc loading slot

Insert the DVD-ROM or CD-ROM with the label facing up. When using 8 cm (3.15-inch) discs, attach a CD adapter (available at stores) to the disc, and insert the disc into the disc loading slot. (Refer to page 12.)

② Eject (▲) button

This button is used to eject the disc.

③ BUSY indicator

Flashes during data access.

④ Volume Control (headphone level)

This is used to adjust the volume level of the headphone jack.

⑤ Headphone jack (PHONES)

This is a stereo minijack for headphones.

REAR VIEW

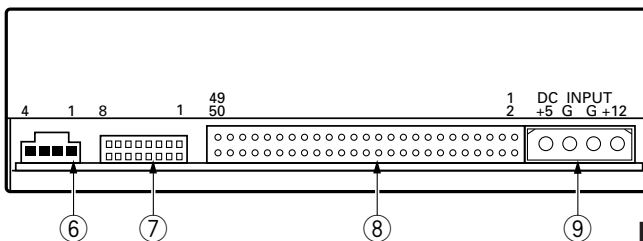


Fig. 2

⑥ Audio output

This is a connector for output of analog audio.

As a Molex 70553 type connector is used, select a matching connection cable.

⑦ Function switch

Use the accessory short-circuit sockets to set the SCSI ID number and the drive function.

● ON : put a short-circuit socket

● OFF : open

#1 ~ 3 : SCSI ID * The factory setting is ID No. 2.

Setting switch	SCSI-ID							
	0	1	2*	3	4	5	6	7
0 (LSB) (#1)	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1 (#2)	OFF	OFF	ON	ON	OFF	OFF	ON	ON
2 (MSB) (#3)	OFF	OFF	OFF	OFF	ON	ON	ON	ON

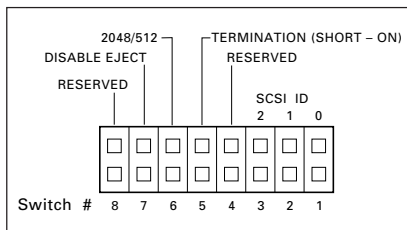
#4 : Reserved

#5 : SCSI Terminator
ON = SCSI termination enable
OFF = SCSI termination disable

#6 : Default sector size
ON = 512 bytes
OFF = 2048 bytes

#7 : Disable the eject switch
ON = Disables the eject switch
OFF = Enables the eject switch

#8 : Reserved



⑧ SCSI interface

This is a 50-pin I/O connector according to the SCSI-2 specifications. Use a flat ribbon SCSI connector to connect to the SCSI host adapter.

⑨ DC Input

This is the power supply input for DC +5 V and +12 V.

TO INSTALL THE DRIVE

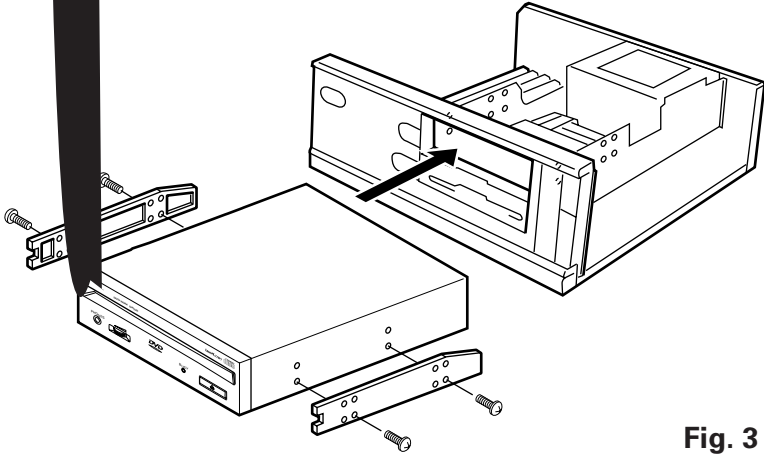


Fig. 3

- Turn off the power of the personal computer and remove the cover or the front panel.
- Remove the blank panel installed at the front of the 5.25 inch slot.
Installation is not possible when there is no empty slot.
- Install the fixation slide rails on the drive. (If slide rails are required, contact the shop where you bought the computer or the computer manufacturer.)
- Insert the drive into the slot.
- If fixing is required, fix the drive according to the instruction manual for the computer.



CONNECTING THE DRIVE IN THE MIDDLE OF A SCSI CHAIN

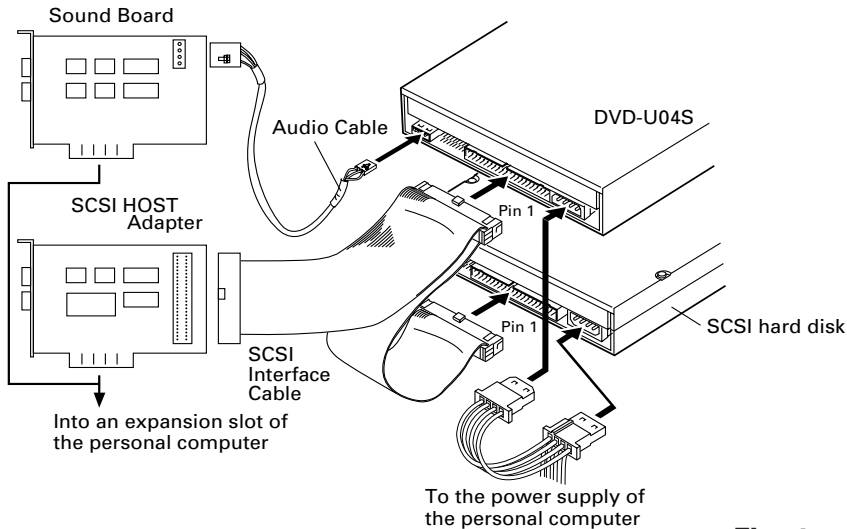


Fig. 4

When a SCSI hard disk or other SCSI equipment is installed in the computer, please connect according to the following method.

- Turn off the power supply of the personal computer.
- Set the SCSI ID number so that it is different from the ID numbers of all other SCSI units.
- Disable internal SCSI termination (switch #5 = OFF).
- Connect the power supply cable from the personal computer. At the time of connection, pay attention to the cable polarity. Please use a power supply cable with two or more connectors in parallel.
- Connect the SCSI interface cable. At this time, confirm that the pin 1 of the SCSI connector is connected correctly to pin 1 of the cable. Use a cable with two or more connectors in parallel.
- When a sound board is used, connect the audio output with an audio cable to the sound board.



WARNING

The power supply of the personal computer must be turned off before cables are connected.

CONNECTING THE DRIVE AS THE ONLY SCSI DEVICE

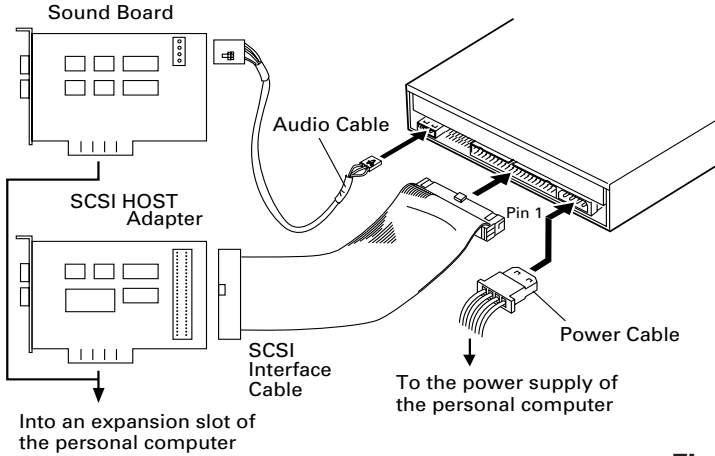


Fig. 5

When no SCSI hard disk or other SCSI equipment is used, connect according to the following connection method.

- Turn off the power supply of the personal computer.
- Set the SCSI ID number.
- Enable internal SCSI termination (switch #5 = ON).
- Connect the power supply cable from the personal computer. At the time of connection, please pay attention to the cable polarity.
- Connect the SCSI interface cable. At this time, confirm that the pin 1 of the SCSI connector is connected correctly to pin 1 of the cable.
- When a sound board is used, connect the audio output with an audio cable to the sound board.



WARNING

The power supply of the personal computer must be turned off before cables are connected.

DISC OPERATION

DISC SETTING METHOD

- Insert the disc into the disc loading slot with the label facing up.

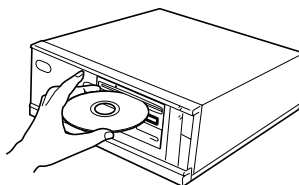


Fig. 6

- When using 8 cm/3.15-inch discs, attach a CD adapter (available at stores) to the disc, and insert the disc into the disc loading slot.

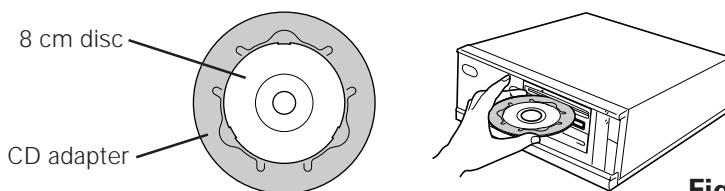



Fig. 7



Do not insert 8 cm/3.15-inch disc without the CD adapter.



Use 8 cm/3.15-inch disc adapters labeled with the  mark (recommended standard product). Do not use adapters which cause the disc to idle, nor adapters which are bent or curved.



When using a CD adapter, attach it properly to the disc, and check that it does not come off to prevent damage to the disc and adapter.



Do not attempt to insert more than two discs at one time, nor insert discs during play.



Do not insert the disc with excessive force so that it bends nor attempt to insert it by force. While the unit is pulling in or ejecting discs, do not attempt to do the opposite using force as this may cause damage to the disc or malfunction of the unit.

DISC REMOVAL METHOD

- Confirm that the BUSY indicator of the drive is not lit, and then press the Eject button (▲).
 - Remove the disc after it has been ejected.
-



Do not place anything within 12 cm (4.72 in.) in front of the unit as this may obstruct the disc ejection operation of the unit.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this unit, check the points below according to the symptom.

If your computer did not start up correctly because the initial diagnostics did not recognize a SCSI device, check these items:

- Were all of your SCSI devices plugged in and turned on before you started your computer ?
 - The Drive and all of the SCSI devices in the daisy chain must be turned on before you start your computer.
- Are your cables connected properly ?
 - All cables must be attached to the correct ports.
- Are your SCSI IDs set properly ?
 - Each device on a SCSI chain must have a unique SCSI ID.
- Have you set termination properly ?
 - If the Drive is the only SCSI device, it must be terminated.
- Have you installed the software driver properly that came with your Drive ?
 - If you have not installed the software device drivers yet, refer to the Installation instructions.

If data cannot be read from the DVD/CD-ROM disc:

- Is the disc properly inserted in the slot with the label side facing ↑ UP ?
- Is the BUSY indicator light on ?
- Is the disc in proper operating condition ?
- Is the SCSI cable connected correctly to the interface card and/or other SCSI devices?
- Are you sure there is a disc in the slot (drive) which you are trying to access ?

If music cannot be played back:

- Are you sure an audio CD is being used ?
- Is the audio amplifier, powered speakers, or headphone set connected ?
- Are you using CD-DA Audio ?
 - Some audio formats require an audio sound card in the computer to decode digital Audio CD-DA.
- Are you operating the Drive that is not connected to a SCSI 2 interface card ?
 - Bringing digital audio from the DVD/CD-ROM disc into the computer requires a SCSI 2 interface card.
- Is the volume turned high enough ?

Disc cannot be ejected:

- Has the Function Switch for the eject switch been set to the ON disabled position ? Function Switch #7.
 - If yes, set the switch to the OFF condition.

SPECIFICATIONS

[General functions]

Disc diameter	12 cm (4.72 in), 8 cm (3.15 in)*
* When using 8 cm discs, attach a CD adapter (available at stores) to the disc.	
Transfer rate (Sustained)	
DVD-ROM	maximum 13,500 kBytes/sec.*
CD-ROM	maximum 6,000 kBytes/sec.*
* The data transfer rate may not be output due to disc conditions (scratches, etc.).	
Access time (Random average)	
DVD-ROM	100 ms
CD-ROM	80 ms
Data buffer capacity	512 kBytes

[Audio output part]

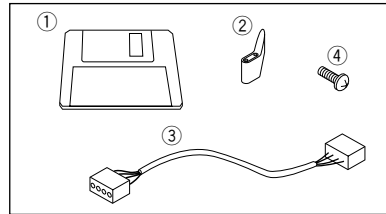
Line	0.7 Vrms ± 0.5 Vrms (at 10 kΩ load)
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[Others]

Power supply	DC +12 V, 1.6 A (peak), 1.1 A (normal) DC +5 V, 1.6 A (peak), 1.1 A (normal)
External dimensions (including front panel)	148 (W) x 42.3 (H) x 208.5 (D) mm 5-27/32 (W) x 1-11/16 (H) x 8-7/32 (D) in
Weight	1.0 kg (2.2 lb)
Operation temperature	+ 5°C to +45°C (41°F to 113°F)
Operation humidity	5% to 85% (no condensation)
Storage temperature	- 40°C to +60°C (-40°F to 140°F)
Storage humidity	5% to 90% (no condensation)

[Accessories]

- Software device driver diskette (①) x 1
- Short-circuit socket (②) x 3
- Audio cable (③) x 1
- Mounting screw (④) x 4
- Operating instructions x 1
- Installation instructions x 1



NOTE:

Specifications and design subject to possible modifications without notice, due to improvements.

- The Pioneer DVD-U04S can be operated using any generic single SCSI DVD/CD-ROM device driver (e.g. as included in your Operating System software or supplied with your SCSI controller board). For details please refer to the manual supplied with your device driver.
In accordance with specific arrangements, the DVD-U04S is in some countries shipping with a diskette containing device driver software. The references in this manual to device driver software are related to the Pioneer supplied version.
The enclosed device driver is for use with MS-DOS/Windows 3.XX. This driver is not required for use with Windows 95 or Windows 98.

* MS-DOS and Windows are trademarks of Microsoft Corporation.

ABOUT REGION CODES

Region codes are part of the DVD standard. There is a Region number located within one or all of the components required for DVD-VIDEO playback. The Region number defines the region of the DVD-ROM drive and its playback hardware/software. DVD-VIDEO discs may also contain a Region number in the shape of a world globe. Unless the Region number on both the DVD-VIDEO disc and DVD-ROM drive and its playback components match, playback is not possible. When the word "ALL" is located in the world globe on a DVD-VIDEO disc, that particular DVD-VIDEO disc can be played on all DVD-ROM drives and its playback components, regardless of its region.

World Regions Numbers (1-6)

1. United States, Canada, Puerto Rico, Bermuda, the Virgin Islands, and some islands in the Pacific.
2. Japan, Western Europe (including Poland, Romania, Bulgaria, and the Balkans), South Africa, Turkey, and the Middle East (including Iran and Egypt).
3. Southeast Asia (including Indonesia, South Korea, Hong Kong, and Macao).
4. Australia, New Zealand, South America, most of Central America, Papua New Guinea, and most of the South Pacific.
5. Most of Africa, Russia (and former Russian states), Mongolia, Afghanistan, Pakistan, India, Bangladesh, Nepal, Bhutan, and North Korea.
6. China and Tibet.

The region code on the DVD-U04S can be changed **ONLY** 5 times, including the 1st setting. Please be aware that the 5th change will be PERMANENT. Therefore please use caution when changing the region code.

NOTE:

The method of changing the Region number will vary depending on the Decoder/Operating System used.

AFTER-SALES SERVICE FOR PIONEER PRODUCTS

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the Pioneer's subsidiaries (regional service headquarters) listed below:

PLEASE DO NOT SHIP YOUR PRODUCT TO THE COMPANIES at the addresses listed below for repair without advance contact, for these companies are not repair locations.

AMERICA

PIONEER ELECTRONICS SERVICE, INC.
CUSTOMER SUPPORT DIVISION
P.O. BOX 1760, LONG BEACH, CA 90801-1760, U.S.A.

EUROPE

PIONEER ELECTRONIC (EUROPE) N.V.
EUROPEAN SERVICE DIVISION
HAVEN 1087, KEETBERGLAAN 1, 9120 MELSELE, BELGIUM

ASEAN

PIONEER ELECTRONICS ASIACENTRE PET. LTD.
SERVICE DEPARTMENT
253, ALEXANDRA ROAD #04-01
SINGAPORE 159936

JAPAN AND OTHERS

PIONEER CORPORATION (HEAD OFFICE)
CUSTOMER SUPPORT CENTER
4-1, MEGURO 1-CHOME, MEGURO-KU, TOKYO 153-8654 JAPAN

France : tapez 36 15 PIONEER

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パイオニア株式会社

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Multimedia and Mass Storage Division: 2265 East 220th Street, Long Beach, CA 90810, U.S.A. TEL:800-444-OPT1 (6784)

PIONEER ELECTRONICS SERVICE, INC. 1925 East Dominguez St. Long Beach, CA 90810, U.S.A. TEL: 310-952-2820

PIONEER ELECTRONIC [EUROPE] N.V.

Multimedia Division: PIONEER House, Hollybush Hill, Stoke Poges, Slough SL2 4QP, U.K. TEL: +44-1753-789-789

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PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00, Wheelock Place, Singapore 238880 TEL: +65-735-9011