

Introduction

The CRX85U has the following features:

- Features **Power-Burn** technology to prevent buffer under-run errors.
- Can write CD-R discs at a speed of up to 20×.
- Can write CD-RW discs at a speed of up to 8×.
- Can read CD-ROM discs at a speed of up to 24×.
- Can read DVD-ROM discs at a speed of up to 8×.

Required System Configuration

The CRX85U can be used with a personal computer with the following specifications:

Windows PC

- CPU: Pentium II 400 MHz or faster
- RAM: At least 64 MB
- Hard disk space: 1 GB or more
- OS: Windows 98 Second Edition (Windows 98 SE), Windows 2000 Professional (Windows 2000), Windows Millennium (Windows Me), or Windows XP Home Edition or Professional (Windows XP)
- Computer must have a CD-ROM drive or be capable of connection to the Internet. (Used for installing driver software with Windows 98 SE.)

Macintosh

- PowerMac G3, G4, G4 Cube, iMac, iBook, PowerBook G3, G4
- Mac OS 9.0.4, 9.1, 9.2.1
- At least 64MB RAM
- Macintosh with built in USB connector

Main Specifications

Speed

Write speed
20× maximum (CD-R)
8× maximum (CD-RW)
Read speed
24× maximum (CD-ROM)
8× maximum (DVD-ROM)

Discs

Compatible discs
CD-ROM DVD-ROM
CD-ROM XA DVD-Video
Photo CD
(Multisession compatible)
CD-DA
CD-R
CD-RW
CD-I
Video CD
CD Extra (CD+)
CD TEXT
Audio combined CD-ROM
Disc diameter: 12 cm
8 cm (CD-DA reading only)

Writing methods

Track at once
Disc at once
Session at once
Fixed packet writing

Drive

Data transfer rate
Maximum: 3600 kb/s (24×¹⁾)

Access time
Average (random stroke): 160 ms
¹⁾ The maximum data transfer rate varies according to the performance capabilities of the computer.

- Has a compact, lightweight design for portability.
- Includes a compact, lightweight AC adapter that is compatible with power supply voltages from 100 to 240 V.
- Provided with a USB 2.0 interface cable.
- When connected to a system supporting USB 2.0, provides full-performance read speeds of up to 24× (3600 Kbytes/sec).

CAUTION

- The required system configuration is designed to provide the basic capability to write CD-R and CD-RW discs. In order to actually use the CRX85U, it is necessary to satisfy not only the system requirements described here, but also the system requirements that are specified for the writer software. (The system requirements for writer software usually exceed the system requirements described here.)
- system meeting the following requirements is needed in order to use USB 2.0 operation with this device.
 - USB interface cable conforming to USB 2.0 (supplied with this device)
 - Computer that is equipped with a USB 2.0-compliant USB connector or PCI interface card¹⁾, and on which the USB 2.0 EHCI driver software²⁾ has been installed.
 - ¹⁾ Recommended Product: Adaptec “USB2connect” card (AUA-3100LP)
 - ²⁾ Supplied with currently available PCI interface cards that conform to USB 2.0.
- When connected to a product that conforms to the earlier USB 1.1 standard, the device operates at the fastest transfer speed allowed under USB 1.1.
- Macintosh supports USB1.1 only. (As of September 2001)

Operating Environment/Storage Environment

Operating temperature
5°C to 35°C

Power Supply/Miscellaneous

Power supply
External power jack: rated 5 V
AC adapter: AC-CRX85
(rated input AC100 V - 240 V)

Power consumption
2.0 A

Size
Approximately 129 × 18 × 134 mm
(W × H × D)

Weight
Approximately 230 g (main unit only)

Interfaces

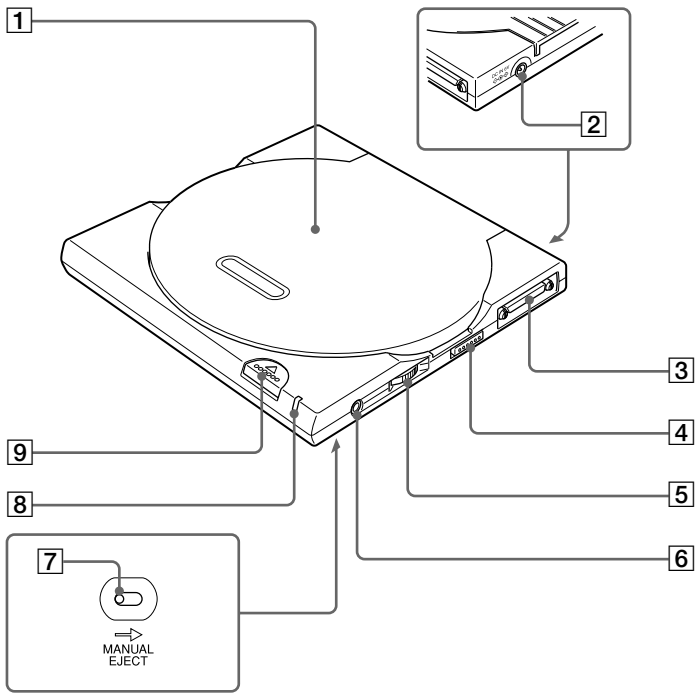
Drive interface
USB 2.0 compliant*
* For connection to a computer using the ACR-U20 interface cable provided with the CRX85U.

Buffer capacity
8 MB

These specifications and the appearance of the product are subject to change without notice.

Names and Functions of Parts

Main unit



1 Top Cover

2 Power Jack (rear of unit)

Connect the AC adapter (provided) here.

CAUTION

Never connect any AC adapter other than the one that was provided with the CRX85U.

3 Interface Connector

Connect the interface cable (provided) here.

CAUTION

Never connect any interface cable other than the one that was provided with the CRX85U.

4 Power Switch

Use this switch to turn the CRX85U on and off.

5 Volume Dial

Use this dial to adjust the volume of the analog audio signal that is output from the headphone jack.

6 Headphone Jack

Headphones or active speakers can be connected here.

7 Manual Eject Lever (bottom of unit)

When the CRX85U is off, push this lever in the direction indicated by the arrow to open the top cover.

8 Indicator

This indicates the operating status of the drive. When the drive is on but idle, this indicator is green; when the drive is in operation, this indicator is orange.

9 Eject Button

Press this button to open the top cover.

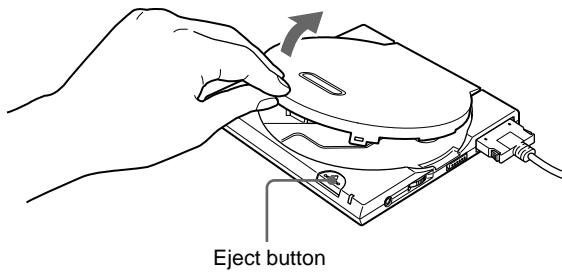
Important

The CRX85U is equipped with an electronically powered eject mechanism in order to prevent the top cover from being opened accidentally while the drive is in operation. As a result, if the drive is off, pressing the eject button will not open the top cover. Furthermore, even when the power is on, depending on the status of the application that is currently running, the top cover might not open for one second or longer after the eject button is pressed. If the top cover does not open when the eject button is pressed (unless the drive is currently writing a disc), press the manual eject lever (located on the bottom of the drive) in the direction indicated by the arrow to open the top cover.

Loading and Ejecting Discs

Loading a Disc

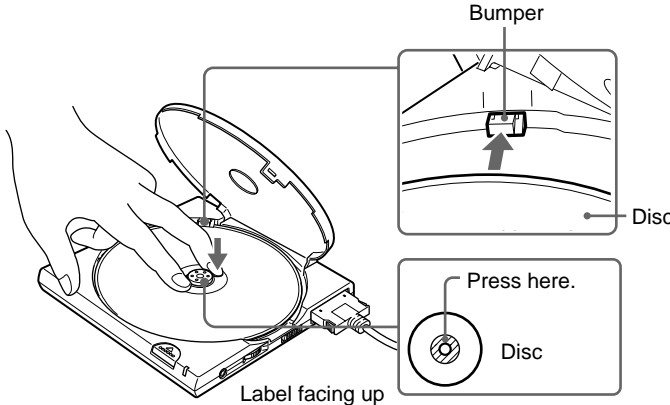
- Press the eject button to open the top cover. The top cover will open slightly by itself. Lift it all of the way open manually.



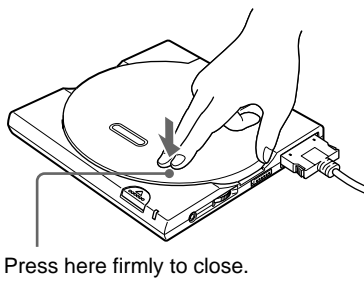
- Load a disc. Push down on the center of the disc until the disc clicks into place. Do not press too hard. Also, be careful not to touch the lens or any other optical parts in the drive.

CAUTION

When loading a disc, press the disc's edge against the side of the spring-loaded bumper inside the disc compartment. Make sure that the disc's recording surface does not sit on top of the bumper before closing the drive cover.

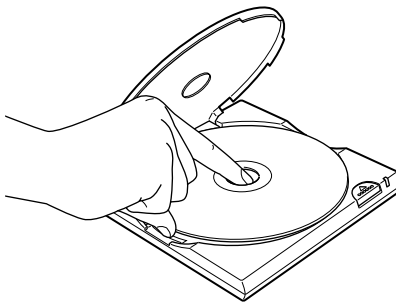


- Close the top cover. You can now access the data on the disc.



Ejecting a Disc

- Press the eject button to open the top cover. The top cover will open slightly by itself. You can then manually lift it until it opens fully.
- Remove the disc. Hold one finger against the edge of the disc from the side of the CRX85U, and press another finger against the protrusion in the center of the drive to remove the disc.



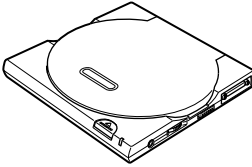
CAUTION

- Make sure that the disc has stopped spinning before removing the disc.
- Do not open the top cover while the indicator is orange. Doing so may cause the computer to freeze up.

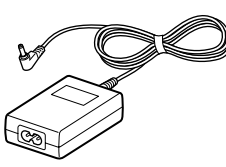
List of Accessories

When you unpack the carton, make sure that it contains the CRX85U and all of the accessories listed below. If anything is missing or damaged, contact your retailer.

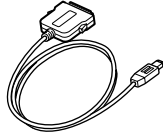
• CRX85U



• AC Adapter (AC-CRX85)



• Interface Cable



- Power cord
- Software CD-ROM
- User's Guide
- Software Quick Start Guide

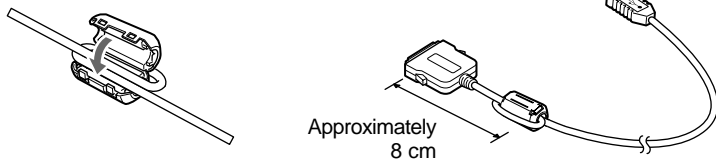
- Setup Guide
- Warranty Card
- Ferrite Clamp

Note

To guard against possible loss or damage, be sure to make a backup copy of the provided software CD-ROM on a CD-R disc or other media. The software CD-ROM is not sold separately.

Before Connecting the Interface Cable

Attach the ferrite clamps to the end of the interface cable. To position the center of the ferrite clamp as shown in the illustration below, wind the interface cable around it once, and then secure the ferrite clamp by closing it until you hear a click.



Note

To satisfy radio-frequency interference suppression standards, be sure to install the ferrite clamp correctly. It reduces the possibility interference with other devices.

Portable CD-RW/DVD-ROM Drive

User's Guide

CRX85U

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English

Please refer to this manual together with the “USB Interface Drive User’s Guide” in the attached Software CD-ROM, which carries more detailed information.

Français

Reportez-vous au présent manuel ainsi qu’aux documents intitulés “USB Interface Drive Guide de l’utilisateur” contenu sur le CD-ROM accompagnant ce produit pour plus de détails.

Deutsch

Einzelheiten entnehmen Sie bitte diesem Handbuch zusammen mit der “Betriebsanleitung für das USB-Schnittstellenaufwerk” auf der mitgelieferten CD-ROM, die zusätzliche Details enthält.

Español

Consulte este manual junto con la “Guía del usuario de la unidad de interfaz USB” del CD-ROM del software suministrado, que ofrece información más detallada.

Italiano

Fare riferimento a questo manuale insieme a “Guida dell’utente dell’unità disco a interfaccia USB” nel CD-ROM del software allegato, che contiene informazioni più dettagliate.

Português

Consulte este manual junto com o “Guia do Utilizador do Drive de Interface USB” no CD-ROM do Software em anexo, que traz informações mais detalhadas.

Nederlands

Raadpleeg deze gebruiksaanwijzing samen met de “USB station-interface gebruikershandleiding” op de bijgeleverde CD-ROM, die meer gedetailleerde informatie bevat.

Svenska

Vi hänvisar till denna bruksanvisning tillsammans med “Användarguide för enhet med USB gränssnitt” på den bifogade CD-ROM-skivan, som innehåller mer detaljerad information.

中文繁體

請參考本使用說明書及隨同軟體CD-ROM一起提供的載有更多資訊的 “USB界面驅動器用戶指南”。

中文简体

请参考本使用说明书及随同软件CD-ROM一起提供的载有更多信息的 “USB接口驱动器用户指南”。

한글

자세한 내용은 본 사용설명서와 함께 부속된 소프트웨어 CD-ROM의 “USB 인터페이스 드라이브 사용자 가이드” 도 참조하여 주십시오.

DVD-VIDEO Playback and Region Codes (Region Numbers)

The playing of DVD-VIDEO (DVD discs) is protected and controlled by a region code* setting.

* Region Playback Control standard (RPC standard)

DVD-VIDEO Playback and Region Codes with the CRX85U

With the CRX85U, the region code can be set up to five times, including the initial assignment (RPC Phase 2 standard). The CRX85U region code is set by the DVD-VIDEO playback software.

Important

After setting the region code five times (including the initial setting), the setting becomes permanent and cannot be changed. Thereafter, you will only be able to play DVD-VIDEOS whose region code matches that set the fifth time.

Caution

Do not attempt to make unauthorized changes to the region code. Any problems that result from doing so will not be covered by the warranty.

In order for the DVD-ROM drive to play a DVD-VIDEO, the region code shown on the DVD disc, the region code of the DVD-ROM drive, and the DVD video software region code must all match.

Points to Consider when Playing DVD-VIDEOS

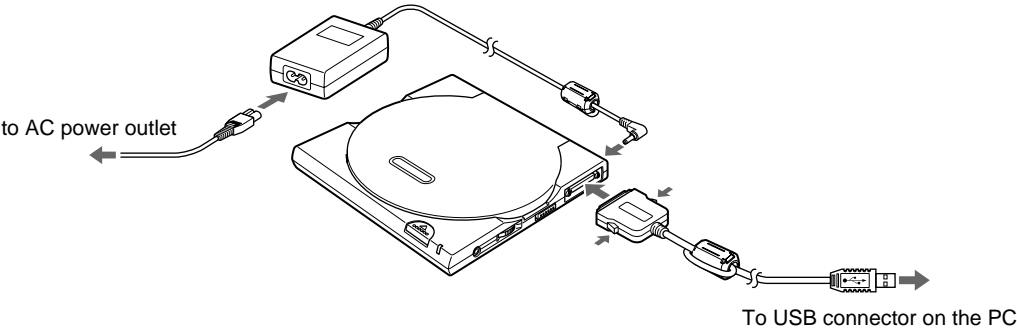
The playback conditions for DVD-VIDEOS are sometimes determined by software makers. Since this drive plays back discs as determined by the software manufacturer, some drive functions may not always work as expected. When playing back DVD-VIDEOS, refer to the instructions accompanying each disc.

Connecting the Drive to a Personal Computer

Connect the drive to a personal computer as shown in the illustration below.

CAUTION


- Be sure to read the Quick Start Guide before connecting the CRX85U to the computer the first time.
- Use only the supplied AC adapter, power cord, and USB cable for connections.



Precautions for USB Connections

- Connect the CRX85U directly to a USB port on the computer. Operation through a hub (including keyboard hubs) cannot be guaranteed.
- Do the following before disconnecting the interface cable from the CRX85U.
 - Disconnect the connector on the computer end of the cable.
 - Turn off the power to the CRX85U.

Using the CRX85U with Windows XP, Windows Me or Windows 2000

Once the CRX85U has been set up, the USB cable can be connected and removed while the CRX85U and computer remain turned on. However, for Windows XP, Windows Me and Windows 2000, we recommend clicking  on the task bar and allowing the CRX85U to stop before removing the cable. Otherwise, a warning message will be displayed when the USB cable is removed.

Product and Support Information

Sony Global Sites Information

- **Products purchased in USA:**
http://www.sony.com/storagesupport
- **Products purchased in Canada:**
http://www.sony.ca/
- **Products purchased in Europe:** *
http://www.sony-cp.com/cd-rw
* Local web sites for computer peripheral products.

About the Bundled Writing Software

Detailed information about the supplied writing software is available on the web sites of the software manufacturers and software distributors. (Accessible from the links in each software application)

Technical Support

Please consult the above sources before calling with questions about using CRX85U, or with technical questions about the drive or the supplied software. If using telephone or email support, please have the following information available.

- **Model number: CRX85U**
- **Serial number**
- **Date and place of purchase**
- **Computer maker and model number**
- **Computer specifications (CPU speed, memory size, OS version, etc.)**
- **Writer software used (version, etc.)**

Local technical support service is available in the following sales regions.

- For products purchased in USA (Sony Electronics Inc):**
Monday to Saturday
8:00 a.m. - 8:00 p.m. CT
 - Toll Free: 1-800-588-3847
 - Free telephone support is offered for 90 days from your first call.

- For products purchased in Canada (Sony of Canada Limited):**
Monday to Friday
8:00 a.m. - 8:00 p.m. EST
 - Toll Free: 1-800-961-7669
 - E-mail : it_help@sony.ca

- For products purchased in Europe (Sony UK Limited):**
Monday - Friday 8:00 a.m. - 9:00 p.m.
 - Toll Free: 00800-CNCESONY (00800-26237669)
 - E-mail: Helpdesk@SonyNordic.no (For Nordic regions)
 - E-mail: CNCE.SONY@suplie.com (For other European regions)

Warranty Card & After Sales Service

Warranty Card

- A warranty card should be provided with this product at the place of purchase.
- Please read the warranty card, fill in the specified information, and retain it for future reference.
- The warranty period is one year from the date of purchase.

Note

The warranty and technical support service are valid only in the countries or sales regions specified on the warranty card.

After-Sales Service

Repairs under Warranty

We provide repair services as described in this and on the Warranty Card. Please contact your supplier or repair service provider for details.

Repairs outside of Warranty

If operation can be restored by repair, we will repair the drive for a charge.

Repair Requirements

If the drive needs repair, return, it together with all supplied accessories (PC Card cables and AC adapter) to your place of purchase or repair service provider.

- If you return the drive to your place of purchase or repair service provider because of damage resulting from misuse or other causes, you will be responsible for all repair-related expenses, including shipping and handling and product adjustments.

Safety Regulations

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION:

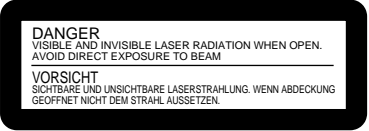
As the laser beam in this CRX85U is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

The use of optical instruments with this product will increase eye hazard.

The use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This label is located on the disc tray and inside the bottom cover.

Dieses Etikett befindet sich auf der CD-Schublade und auf der Innenseite der unteren Abdeckung.



This CD-RW/DVD-ROM drive is classified as a CLASS 1 LASER PRODUCT.

The CLASS 1 LASER PRODUCT label is located on the bottom cover.

Bei diesem CD-RW/DVD-ROM-Laufwerk handelt es sich um ein Laser-Produkt der Klasse 1. Das Etikett mit der Aufschrift LASER KLASSE 1 PRODUKT befindet sich auf der Unterseite des Gehäuses.

CLASS 1 LASER PRODUCT	LUOKAN 1 LASERLAITE
LASER KLASSE 1 PRODUKT	KLASS 1 LASER APPARAT

DANGER	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ATTENTION	RAYONNEMENT VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING, UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO!	NÄKYVÄÄ JA NÄKYMÄTÖN AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE, ÄLÄ KATSO SÄTEESEN.

FCC Compliance:

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.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Note:

If you have any questions about this product, you may call the telephone number listed on the "Product and Support Information" page. The telephone number below is not for customer service but only for official purpose.

Declaration of Conformity	
Trade Name:	SONY
Model No.:	CRX85U
Responsible Party:	Sony Electronics Inc.
Address:	680 Kinderkamack Road, Oradell, NJ 07649 USA
Telephone No.:	201-930-6972
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.	

CE Sicherheitsbestimmungen

Diese Ausrüstung erfüllt die Europäischen EMC-Bestimmungen für die Verwendung in folgender / folgenden Umgebung(en):

- Wohngegenden
 - Gewerbegebiete
 - Leichtindustrialiegebiete
- (Diese Ausführung erfüllt die Bestimmungen der Norm EN55022, Klasse B.)

CAUTION

The mains plug on this equipment must be used to disconnect mains power.

Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

Achtung

Zur Trennung vom Netz ist der Netzsecker aus der Steckdose zu ziehen, welche sich in der Nähe des Gerätes befinden muß und leicht zugänglich sein soll.

- Power-Burn, and **Power-Burn**, are trademarks of Sony Corporation.
- Pentium is a registered trademarks of Intel Corporation.
- Microsoft, and Windows are registered trademarks of Microsoft Corporation.
- Macintosh and Mac OS are registered trademarks of Apple Computer Inc.
- Other system and product names used herein are registered trademarks or trademarks of their respective manufacturers, although the™ and ®marks are not used in the text.

Before using this device, be sure to read the end users license agreements for the software provided with your computer.

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Please Record Responsibly

Before copying anything onto a CD-R or CD-RW disc, please be sure you are not violating copyright laws. Most software companies allow you to make a back-up or archive copy of software. Check your software's license agreement for specific details.