



VAIO Digital Studio® Computer

VGC-RA830G Series

VGC-RA930G Series

Quick Start

SONY®

Notice

© 2005 Sony Electronics Inc. Reproduction in whole or in part without written permission is prohibited. All rights reserved. This manual and the software described herein, in whole or in part, may not be reproduced, translated, or reduced to any machine-readable form without prior written approval.

SONY ELECTRONICS INC. PROVIDES NO WARRANTY WITH REGARD TO THIS MANUAL, THE SOFTWARE, OR OTHER INFORMATION CONTAINED HEREIN AND HEREBY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE WITH REGARD TO THIS MANUAL, THE SOFTWARE, OR SUCH OTHER INFORMATION. IN NO EVENT SHALL SONY ELECTRONICS INC. BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES, WHETHER BASED ON TORT, CONTRACT, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS MANUAL, THE SOFTWARE, OR OTHER INFORMATION CONTAINED HEREIN OR THE USE THEREOF.

SONY CANNOT WARRANT THAT THE FUNCTIONS DESCRIBED IN THIS GUIDE WILL BE UNINTERRUPTED OR ERROR-FREE. SONY ALSO ASSUMES NO RESPONSIBILITY, AND SHALL NOT BE LIABLE FOR ANY DAMAGES TO, OR VIRUSES THAT MAY INFECT, YOUR COMPUTER EQUIPMENT, OR OTHER PROPERTY ON ACCOUNT OF YOUR ACCESS TO, USE OF, OR BROWSING IN ANY DESCRIBED WEB SITE, OR YOUR DOWNLOADING OF ANY MATERIALS, DATA, TEXT, IMAGES, VIDEO, OR AUDIO FROM ANY DESCRIBED WEB SITE. WEB SITE INFORMATION IS OBTAINED FROM VARIOUS SOURCES AND MAY BE INACCURATE. COPIES OF COPYRIGHTED INFORMATION MAY ONLY BE MADE FOR LEGALLY PERMISSIBLE PURPOSES.

Sony Electronics Inc. reserves the right to make any modification to this manual or the information contained herein at any time without notice. The software described herein is governed by the terms of a separate user license agreement.

This product contains software owned by Sony and licensed by third parties. Use of such software is subject to the terms and conditions of license agreements enclosed with this product. Some of the software may not be transported or used outside the United States. Software specifications are subject to change without notice and may not necessarily be identical to current retail versions.

Certain product(s) included with this computer may include features such as copy protection and content management technology. USE OF THE SOFTWARE PRODUCT(S) REQUIRES AGREEMENT TO APPLICABLE END USER AGREEMENTS AND FULL COMPLIANCE WITH APPLICABLE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and privacy policies will be detailed during initial launch of the software product(s), or upon certain reinstallations of the software product(s), or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Updates and additions to software may require an additional charge. Subscriptions to online service providers may require a fee and credit card information. Financial services may require prior arrangements with participating financial institutions.

Important information for Canadian customers: Your new VAIO computer includes certain software versions or upgrades, and Internet services or offers that are available to U.S. customers only.

Sony, VAIO, the VAIO logo, VAIO Digital Studio, VAIO Media, VAIO Media Music Server, VAIO Media Photo Server, VAIO Media Video Server, VAIO Zone, Click to DVD, CLIE, DVgate Plus, Handycam, MagicGate, Memory Stick, Memory Stick Duo, the Memory Stick logo, OpenMG, MICROMV, SonicStage, PictureGear, ImageStation, ATRAC3, and i.LINK are trademarks or registered trademarks of Sony.

Intel and Pentium are trademarks or registered trademarks of the Intel Corporation.

Microsoft, Windows, and the Windows logo are trademarks or registered trademarks of the Microsoft Corporation.

PS/2 is a registered trademark of the IBM Corporation.

All other trademarks are trademarks or registered trademarks of their respective owners.



As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

The International ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles and copiers. Their standards and logos are uniform among participating nations.

ENERGY STAR is a U.S. registered trademark of the Environmental Protection Agency.



The Wireless LAN functionality, which is incorporated into selected models only, has passed Wi-Fi certification and complies with the interoperability specifications established by WFA (Wi-Fi Alliance).

Owner's Record

The model number and serial number are located on the back panel of your Sony VAIO® computer. Record the model and serial number in the space provided here, and keep in a secure location. Refer to the model and serial numbers when you call your Sony Service Center.

Model Number:	
Serial Number:	

Safety Information and Caution

Your computer's installed optical drives may vary, depending on the system configuration you have purchased. See the online specifications sheet for details on your installed optical drives. For questions regarding your product or for the Sony Service Center nearest you, visit the Sony online support Web site at <http://www.sony.com/pcsupport>.

For customers in the United States:

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance at <http://www.eiae.org>.

Keyboard Properties: VGP-WKB2 (This keyboard is not supplied with all VAIO® computer models)

Carrier frequency	27.095 - 27.145MHz
-------------------	--------------------

Output power	Less than 1,800 nW
--------------	--------------------

Mouse Properties: PCVA-MS2 (This mouse is not supplied with all VAIO® computer models)

Carrier frequency	27.045 MHz
-------------------	------------

Output power	Less than 100 nW
--------------	------------------

-
- ☐ To prevent fire or shock hazard, do not expose your desktop to rain or moisture.
 - ☐ To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
 - ☐ Never install modem or telephone wiring during a lightning storm.
 - ☐ Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
 - ☐ Never touch uninsulated telephone wire or terminals unless the telephone line has been disconnected at the network interface.
 - ☐ Use caution when installing or modifying telephone lines.
 - ☐ Avoid using the modem during an electrical storm.
 - ☐ Do not use the modem or a telephone to report a gas leak in the vicinity of the leak.
 - ☐ The socket outlet shall be installed near the equipment and shall be easily accessible.



To change the backup battery, please contact your nearest Sony Service Center.



Caution—The use of optical instruments with this product will increase eye hazard. As the laser beam used in this product is harmful to the eyes, do not attempt to disassemble the drive cabinet. Refer servicing to qualified personnel only.



Danger—Visible and invisible laser radiation when open. Avoid direct exposure to beam.



For DVD±RW/DVD-ROM: Danger—Visible and invisible laser radiation when open. Avoid direct exposure to beam.



For CD-RW: Danger—Invisible laser radiation when open. Avoid direct exposure to beam.



Caution—For ADSL and V.90 modem models; to reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

- ☐ Pour prévenir tout risque d'incendie ou d'électrocution, garder cet appareil à l'abri de la pluie et de l'humidité.
- ☐ Pour prévenir tout risque d'électrocution, ne pas ouvrir le châssis de cet appareil et ne confier son entretien qu'à une personne qualifiée.
- ☐ Ne jamais effectuer l'installation de fil modem ou téléphone durant un orage électrique.
- ☐ Ne jamais effectuer l'installation d'une prise téléphonique dans un endroit mouillé à moins que la prise soit conçue à cet effet.
- ☐ Ne jamais toucher un fil téléphonique à découvert ou un terminal à moins que la ligne téléphonique n'ait été débranchée de l'interface réseau.
- ☐ Soyez très prudent lorsque vous installez ou modifiez les lignes téléphoniques.
- ☐ Évitez d'utiliser le modem durant un orage électrique.
- ☐ N'utilisez pas le modem ni le téléphone pour prévenir d'une fuite de gaz si vous êtes près de la fuite.
- ☐ L'appareil doit être le plus près possible d'une prise murale pour en faciliter l'accès.



Pour changer la pile de rechange, veuillez contacter votre centre de service Sony le plus près.



Avertissement: L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux. Puisque le faisceau laser utilisé dans ce produit est dommageable pour les yeux, ne tentez pas de désassembler le boîtier. Adressez-vous à un agent de service qualifié.



Danger: Radiation laser visible et invisible si ouvert. Évitez l'exposition directe au faisceau.



Pour les DVD±RW/DVD-ROM: Danger—Radiation laser visible et invisible si ouvert. Évitez l'exposition directe au faisceau.



Pour les CD-RW: Danger—Radiation laser invisible si ouvert. Évitez l'exposition directe au faisceau.



Attention: Pour ADSL et V.90 modele modem; afin de réduire les risques d'incendie, n'utilisez qu'un cordon de communication NO. 26 AWG ou plus gros.

Regulatory Information

If you have questions about this product, write to Sony Customer Information Service Center at 12451 Gateway Blvd., Ft. Myers, FL 33913, USA, or visit Sony Customer Service on the Sony Online Support Web site at <http://www.sony.com/pcsupport>.

Declaration of Conformity

Trade Name:	SONY
Model No.:	PCV-A21L
Responsible Party:	Sony Electronics Inc.
Address:	16450 W. Bernardo Drive San Diego, CA 92127 USA
Telephone:	858-942-2230

This phone number is for FCC-related matters only.

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.

Model No.: PCVA-IMB7A (For models equipped with TV and personal video recording features)

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.

Model No.: VGP-WKB1(wireless keyboard), and PCVA-MS2 (wireless mouse)

These devices comply 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 of the device.

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 the 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.

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

Only peripherals (computer input/output devices, terminals, printers, etc.) that comply with FCC Class B limits may be attached to this computer product. Operation with noncompliant peripherals is likely to result in interference to radio and television reception.

All cables used to connect peripherals must be shielded and grounded. Operation with cables, connected to peripherals, that are not shielded and grounded, may result in interference to radio and television reception.

FCC Part 68

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the modem card is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

This modem uses the USOC RJ-11 telephone jack.

A telephone plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. The REN is used to determine the quantity of devices which may be connected to the telephone line.

Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g. 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operations of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact the Sony Customer Information Service Center at 1-888-4-SONY-PC (1-888-476-6972), or write to the Sony Customer Information Center, 12451 Gateway Blvd., Fort Myers, FL 33913, USA, or find Sony Customer Service on the Web at <http://www.sony.com/pcsupport>. If this equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment from the network until the problem is resolved.

Repair of this equipment should be made only by a Sony Service Center or Sony authorized agent. For the Sony Service Center nearest you, call 1-888-4-SONY-PC (1-888-476-6972), or visit the Sony Online Support Web site at <http://www.sony.com/pcsupport>.

Connection to Party Line Service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Please use a surge arrestor against electrical surges.

IC RSS-210 (Canada)

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 of the device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) Il ne doit pas produire de brouillage, et (2) l'utilisateur doit être prêt à accepter tout brouillage radioélectrique reçu, même si celui-ci est susceptible de compromettre le fonctionnement du dispositif.

Telephone Consumer Protection Act of 1991 (United States)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including FAX machines, to send any message unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business, other entity, or individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long distance transmission charges.)

In order to program this information into your facsimile machine, see your fax software documentation.

Telephone Consumer Guidelines (Canada)

Please refer to your telephone directory under 'Privacy Issues' and/or 'Terms of Service.' For more detailed information, please contact:

CRTC

**Terrasses de la Chaudière
Tour centrale 1 promenade du Portage
5 étage Hull PQ K1A 0N2.**

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

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

Model No.: PCVA-IMB7A (For models equipped with personal video recording features)

Supplementary Television Broadcasting Receiving Apparatus - Appareils supplémentaires de réception de télévision, Canada.

Industry Canada Notice

This equipment meets the applicable Industry Canada technical specifications.

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed 5.

Avis de L'Industrie Canada

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

Macrovision license

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Licence Macrovision

Ce produit intègre une technologie de protection de la loi sur le droits de propriété intellectuelle couverts par la législation américaine. L'utilisation de cette technologie doit être autorisée par Macrovision. Elle est uniquement destinée à un usage privé et à d'autres fins de visualisation limitée, sauf autorisation contraire de la part de Macrovision. Tout désoissage ou désassemblage est formellement interdit.

Disposal of Lithium Battery

You can return your unwanted lithium batteries to your nearest Sony Service Center or Factory Service Center.



In some areas the disposal of lithium batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you, call 1-888-476-6972 in the United States or 1-800-961-7669 in Canada.



Do not handle damaged or leaking lithium batteries. In some areas, the disposal of lithium batteries in household or business trash may be prohibited.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 212° F (100° C), or incinerate. Dispose of used battery promptly. Keep away from children.



Ne pas manipuler les batteries au lithium qui fuient ou sont endommagées.

Une batterie non conforme présente un danger d'explosion. La remplacer seulement par une batterie identique ou de type équivalent recommandé par le fabricant. Évacuer les batteries usées selon les directives du fabricant.

La manutention incorrecte du module de batterie de cet appareil présente un risque d'incendie ou de brûlures chimiques. Ne pas démonter, incinérer ou exposer à une température de plus de 100°C. Évacuer promptement la batterie usée. Garder hors de portée des enfants.
