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## VAIO® GRV600 Series Notebooks

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### Specifications

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- Model**  
PCG-GRV670 (Microsoft® Windows® XP Home Edition)  
PCG-GRV670P (Microsoft® Windows® XP Professional)  
PCG-GRV680 (Microsoft® Windows XP Home Edition)
- Processor**  
Intel® Pentium® 4 processor 2.60GHz<sup>1</sup>
- Cache Memory**  
512K Integrated On -Die Level 2
- Bus Speed**  
400 MHz
- LCD**  
16.0" SXGA (1280x1024) TFT display
- Graphics**  
ATI MOBILITY™ RADEON™ 9000 with 64 MB DDR SDRAM with 3D performance  
Dual display support
- Memory**  
512 MB DDR SDRAM (256x2), maximum 1024 MB
- Hard Drive**  
On GRV670/670P models:  
40 GB<sup>3</sup> hard drive  
  
On GRV680 model:  
60 GB<sup>3</sup> hard drive
- Optical Drive**  
On GRV670/670P models:  
Internal removable CD-RW/DVD-ROM combo drive  
(Max speeds: CD-R write 24x, CD-RW write 10x, CD-RW read 12x, DVD-ROM read 8x)  
  
On GRV680 model:  
Internal removable DVD+/-RW/CD-RW drive  
(Max speeds: DVD-R write 1x, DVD-RW write 1x, DVD+R write 2x, DVD+RW 2x, CD-R write 16x, CD-RW write 8x, CD-RW read 24x, DVD-ROM read 5x)

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**Sony VAIO**  
**Carrying (**  
**CCGX)**  
**PCGA-CCC**



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**Camera (I**  
**UVC10)**  
**PCGA-UVC**



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- **Optional Floppy Drive**

External 1.44 MB, 3.5" USB floppy drive (PCGA-UFD5)

- **Multi-purpose Bay**

For removable optical drive<sup>10</sup> or optional second battery

- **Modem**

Integrated V.90 modem

- **Ethernet**

10BASE-T/100BASE-TX Ethernet with RJ-45 interface

- **Memory Stick® Media Slot**

Supports optional Memory Stick® media

- **Pointing Device / Keyboard**

Electro-Static touch pad

QWERTY, 86 keys with 2.7mm stroke and 19mm pitch

- **Estimated Battery Life<sup>4</sup>**

Lithium-ion battery, supports dual battery operation

1.5-3.5 hours with standard battery<sup>4</sup>

3.0-7.0 hours with optional second battery<sup>4</sup>

- **PC Card Slots**

2 type I/type II cards, or 1 type III card with CardBus support

- **Audio**

Windows® sound system compatible

Built-in stereo speakers; monaural mini-jack microphone

Optional external speakers (PCGA-SP1)

- **Other Interfaces**

RJ-11 modem jack, i.LINK® (IEEE 1394) interface<sup>3</sup>, 3 USB, RJ-45 Ethernet, VGA output, parallel, headphone (stereo), monaural mini-jack microphone, AV out (mini-jack), port replicator connector

- **Optional Port Replicator (PCGA-PRGX1)**

DC in, 2 USB, RJ-45 Ethernet, VGA output, PS/2® keyboard and mouse, serial, parallel, composite out, S-Video out, line-in, line-out, docking CN

- **Power Requirements**

115 watts maximum +10% (19.5V / AC100-240V)

Energy Star® compliant

Advanced power management - APM-ACPI compatible

- **Weight**

8.1 lbs. with one battery

8.7 lbs. with battery and optical drive

- **Size**

1.6"-1.8" X 14" X 11.8"

- **Supplied Accessories**

Lithium-ion battery, power cord, AC adapter, and weight saver

- **Optional Accessories**

External USB floppy disk drive (PCGA-UFD5)

Additional battery (PCGA-BP2NX)

USB mouse (PCGA-UMS5)

Carrying case (PCGA-CCGX)

Additional AC adapter (PCGA-AC19V4)

Port replicator (PCGA-PRGX1)

802.11b Wireless LAN Pro access point (PCWA-A200)

802.11b Wireless LAN PC card (PCWA-C150S)

802.11b Wireless LAN Bridge access point (PCWA-A220)

802.11a Wireless LAN access point (PCWA-A500)

802.11a Wireless LAN PC card (PCWA-C500)

Visual Communication Camera (PCGA-UVC10)

Neoprene Notebook & AC Adapter Cases (PCGA-CCN3)

Notebook Sport Backpack (PCGA-CCP2)

External Speakers (PCGA-SP1)

- **Service and Warranty Information**

One year limited Express Service<sup>5</sup> (Certain restrictions apply.)

One year limited parts and labor<sup>5</sup>

Telephone Support<sup>5</sup>: One year hardware and 90 days software and operating system from purchase date

- **Operating System**

On GRV670/680 models:

Microsoft® Windows® XP Home Edition

On GRV670P model:  
Microsoft® Windows® XP Professional

• **Productivity Software**

Microsoft® Money 2003<sup>8</sup>  
Microsoft® Works 7.0  
Microsoft® Encarta Online<sup>9</sup>

• **Video Software**

Sony Click to DVD™ (GRV680 model only)  
Adobe® Premiere® LE®  
Sony DVgate™  
Sony MovieShaker™  
InterVideo® WinDVD® 4 for VAIO® PC  
DigiOn™ and EasySystems Drag'n Drop CD+DVD

• **Music Software**

Screenblast™ ACID™  
Screenblast™ SoundForge®  
Sony SonicStage™  
RealNetworks® Real One Player

• **Photo Software**

Adobe® Photoshop® Elements  
Sony Network Smart Capture  
Sony PictureGear Studio

• **Communication**

Sony VAIO Media™ Software

• **Gaming**

Microsoft® Age of Empires

• **Virus, Tools, and Support Software**

Trend Micro PC-Cillin<sup>7</sup>  
VAIO Support Agent

• <sup>1</sup> GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.

<sup>2</sup> GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary.

<sup>3</sup> i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.

<sup>4</sup> Estimated battery life. Actual battery life may vary on usage.

<sup>5</sup> From date of purchase with registration.

<sup>6</sup> Wireless LAN access point sold separately. Sony cannot guarantee the security of wireless communications.

<sup>7</sup> Requires fees for use.

<sup>8</sup> Certain features are time limited.

<sup>9</sup> Limited duration trial subscription to Microsoft's current online version. Internet access required; additional fees (including telephone/long distance charges) may also apply.

<sup>10</sup> DVD+/-R and DVD+/-RW discs recorded on this drive will playback in most consumer DVD players and computer DVD-ROM drives.

• *Prices vary depending on features, specifications, and model chosen and are subject to change. Prices shown are for base configuration. Features and specifications are also subject to change according to configuration of product.*

• **Computer Interface:** The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware option except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Preinstalled software may not be identical to retail versions or have all documentation.

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• **Sony PCs use genuine Windows® Operating Systems.**  
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