

Express yourself with color

**MAKE A POWERFUL STATEMENT**

Enjoy the powerful performance of an available Intel® Core™ i5 processor with up to (2.53GHz<sup>1</sup>) with Turbo Boost Technology<sup>21</sup> up to (3.06GHz) and 8GB of system memory.

The VAIO® CW notebook comes pre-installed with Genuine Microsoft® Windows® 7 Home Premium or Professional.

A perfect mix of power and style, the VAIO® CW notebook is a slim, lightweight PC weighing only 5.3lbs (with standard battery).

Tackle virtually any graphics requirement with an available NVIDIA® GeForce® GT 330M graphics card and 512MB<sup>12</sup> of dedicated video RAM.

**RICH MULTIMEDIA**

Fall in love with your favorite movies all over again with a available 14" (1366x768) LED backlit display<sup>4</sup> using energy-efficient technology.

Enjoying your media has never been more fun with the uniquely smart and easy-to-use Sony® Creativity Suite. Get instantly organized with smart sorting features, create personal masterpieces with easy-to-use creative tools and rediscover forgotten music and memories with breakthrough technology that recommends content based on your unique listening and viewing habits.

A Blu-ray Disc™ optical drive lets you playback<sup>20</sup> HD movies in crystal-clear resolution.

Take advantage of the convenience and utility of DVD and CD read/write functionalities.

An HDMI™ output delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV without a myriad of extra cables (HDMI™ cable sold separately).

**ENDLESS FEATURES**

A built-in Assist button launches VAIO Care™ software, a simple do-it yourself PC maintenance tool for tune-ups, troubleshooting and more.

Stay connected to friends and family with real-time video conferencing<sup>3</sup> using the integrated MOTION EYE® camera and microphone with face-tracking technology.

Extend the reach of your notebook with A2DP Bluetooth® technology<sup>11</sup>. It's ideal for advanced wireless communication and streaming uncompromised CD-quality stereo music to Bluetooth® technology enabled speakers or headphones.

A colorful and fashionable 14"<sup>4</sup> notebook expresses your personality and lets you enjoy multimedia entertainment, web surfing<sup>3</sup> and meets all your computing needs in style. This thin-and-light PC also features an available Blu-ray Disc™ player to enjoy HD movies.



# VPCCW290X Configure-to-Order

## VIAO® CW Notebook PC

### Specifications

#### General

Computer Type: Notebook  
Type of Use: Portable  
Action Buttons: VIAO, Assist, Wireless on / off, Display Off  
Pointing Device: Electro-static touchpad (Multi-Finger)

#### Hardware

Keyboard: QWERTY, 82 keys with 2.0mm stroke and 19.05mm pitch  
Camera: Built-in MOTION EYE® camera and microphone with face-tracking technology

#### Processor

Type: Intel® Core™ i3-330M Processor (Configuration 1) Intel® Core™ i3-350M (Configuration 2) Intel® Core™ i5-520M (Configuration 3) Intel® Core™ i5-540M Processor (Configuration 4)

Speed: 2.13GHz (Configuration 1), 2.26GHz (Configuration 2), 2.40GHz with Turbo Boost up to 2.93GHz (Configuration 3), 2.53GHz with Turbo Boost up to 3.06GHz (Configuration 4)

Technology: Intel® Turbo Boost Technology<sup>2</sup>

L3 Cache: 3MB (Configuration 1-3) 4MB (Configuration 4)

#### Memory

Installed: 8GB (4GBx2) 6GB (4GB+2GB), 4GB (2GBx2), 3GB (2GB+1GB), 2GB (2GBx1)

Maximum: 8GB

Type/Speed: DDR3/1066

#### Hard Drive

Capacity: 640GB (Configuration 1), 500GB (Configuration 2), 320GB (Configuration 3)

Speed: 5400rpm or 7200rpm (Configuration 3)

Type: Serial ATA

#### Optical Drive

BD-R DL Read: 4x max (available with BD-ROM and Blu-ray Disc option)

BD-R DL Write: 4x max (only available with Blu-ray Disc option)

BD-R Read: 6x max (available with BD-ROM and Blu-ray Disc option)

BD-R Write: 6x max (only available with Blu-ray Disc option)

BD-RE DL Read: 4x max (available with BD-ROM and Blu-ray Disc option)

BD-RE DL Write: 2x max (only available with Blu-ray Disc option)

BD-RE Read: 4x max (available with BD-ROM and Blu-ray Disc option)

BD-RE Write: 2x max (only available with Blu-ray Disc option)

BD-ROM Read: 6x max (available with BD-ROM and Blu-ray Disc option)

Blu-ray Disc™ Support: Read Only<sup>3</sup> (BD-ROM)

CD Support: Read / Write (CD-R/RW)

DVD Support: Read / Write (DVD±R/±RW/±R DL/RAM)

#### Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ media slot (Standard/Duo) with MagicGate® functionality  
One ExpressCard® / 34 media slot  
One Secure Digital (SD memory card) media slot

#### Audio

Sound System: Intel® High Definition Audio

#### Display

Screen Size: 14"

Resolution: 1366x768

Back Light Technology: LED

#### Graphics

Processor: NVIDIA® GeForce® 310M GPU with Total Available Graphics Memory up to 3838MB (max)<sup>4</sup> (Configuration 1) or NVIDIA® GeForce® GT 330M with total Available Graphics Memory up to 4094MB (max)<sup>5</sup> (Configuration 2)

Video RAM: 256MB (Configuration 1) or 512MB (configuration 2) of Dedicated VRAM

Chipset: Mobile Intel® PM55 Express Chipset

Max. External Resolution via VGA: 2048x1536

Max. External Display Resolution via HDMI™ : 1920x1080<sup>6</sup>

#### Inputs and Outputs

Headphone Jack: 1

Microphone Input: 1

USB Port(s): 3 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)<sup>7</sup>

Ethernet Connection (s): 1

HDMI™ Output: 1

Internal Microphone: 1

#### Power

Battery Type: Standard Capacity Lithium-ion Battery

Estimated Battery Life: Up to 3.5 hours<sup>8</sup> Standard Capacity Battery

Up to 5.5 hours<sup>9</sup> Large Capacity Battery

Power Requirements: 108W or less

#### Start-up Times

Average Boot Time: 60 sec<sup>10</sup>

Average Resume Time from Suspend: 2 sec<sup>11</sup>

First Boot Time: 5 min<sup>12</sup>

#### Wireless/Networking

Ethernet Protocol: 10Base-T/100Base-TX/1000Base-T

Ethernet Speed: Fast Ethernet (RJ-45)

Wi-Fi: 802.11 b/g/n<sup>13</sup>

Bluetooth® Technology: Integrated Stereo A2DP (2.1 + EDR)<sup>14</sup>

#### Software

Operating System: Microsoft® Windows® 7 Home Premium or Professional<sup>15</sup>

Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Home and Student or Small Business 2007<sup>16</sup>

Anti-Virus Software: Norton Internet Security™ 2010 30-Day Trial Offer<sup>17</sup>

System Maintenance and Support: VIAO Care™ - System diagnostics and maintenance

Sony® Creativity Suite: PMB – VIAO® Edition - Import, organize, edit and publish in one easy-to-use program  
VIAO® Media Gallery - Bring forgotten favorites to life  
VIAO® Media plus - Multimedia Streaming Software  
\*Please access VIAO® Help and Support from your PC for a complete list of software applications and trials.

#### Service and Warranty Information

Telephone Support: 1 year toll-free technical assistance available 24/7<sup>18</sup> at 888.476.6972

Online and Email Support: Available at <http://www.esupport.sony.com/EN/VIAO>

Onsite/In-Home Service: 1 year limited warranty with Onsite/In-Home Service<sup>19</sup>. See actual warranty for details.

International Service: 1 year international service plan. Registration required. See [www.sony.com/IRSP](http://www.sony.com/IRSP) for details.

Limited Warranty Term: 1 year limited warranty<sup>20</sup>. See actual warranty for details.

#### Environmental Information

EPEAT™ : Gold

RoHS® : Compliant

ENERGY STAR® : 5.0

#### Dimensions

Weight: 5.3 lbs (with standard battery)

Measurements: 13.44"(W) x 1.09-1.52"(H) x 9.18"(D)<sup>21</sup>

#### Supplied Accessories

Standard Lithium-ion battery (4400mAh)

AC Adapter

Power Cable

#### Optional Accessories

Large Capacity Battery (VGP-BPL21)

Additional Standard Capacity Battery (VGP-BPS21A/B)

AC Adapter (VGP-PAC19V31)

Carrying Case (VGP-CKC4/B)

Neoprene Carrying Case (VGP-AMC5)

Bluetooth® Remote Mouse<sup>22</sup> (VGP-BMS80)

Bluetooth® Mouse<sup>23</sup> (VGP-BMS55/B)

Bluetooth® Keyboard<sup>24</sup> (VGP-BKB1)

Color: Jet Black, Royal Indigo, Fiery Red, Icy White, Crystal Rain White, Brilliant Pink

1. GHz denotes microprocessor internal clock speed and may vary.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Viewable area measured diagonally.
5. Measured at the narrowest point.
6. 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.
7. Estimates only based upon Sony engineering testing. Actual performance will vary based on notebook settings, environmental conditions, and usage. Battery capacity decreases over time and use.
8. See actual limited warranty for details. For a copy of Sony's warranty, please visit [www.esupport.sony.com](http://www.esupport.sony.com), call toll-free 888.476.6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913
9. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.

10. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by internet. Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
11. Interoperability and compatibility among Bluetooth® devices vary.
12. Total Available Graphics Memory refers to the new Windows® 7 classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
13. Compatibility and performance in a 64-bit environment may vary.
14. Norton Internet Security™ 2010 30-day subscription is pre-installed on your VIAO PC. You need to activate the software for the product to work. After your 30-days are finished, buy Norton Internet Security to continue to be protected from viruses, hackers and identify theft.
15. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
16. Broadband Internet service required along with third party services which may require a subscription or other service fee.
17. When available, Sony will provide Onsite/In-Home Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite/In-Home Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite/In-Home Service may not be available in all locations.
18. Based on original factory image and will vary with product configuration changes and additional software added to the hard drive.
19. Excluding end user interaction.
20. Certain circumstances may limit/prevent Blu-ray Disc™ media playback.
21. Intel Turbo Boost Technology performance varies depending on hardware, software and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. For more information, see <http://www.intel.com/technology/turboboost>

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with 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 options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. 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 computer are subject to change without notice. Pre-installed software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice. Non-metric weights and measures are approximate and may vary.  
©2010 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, VIAO and the VIAO logo, VIAO Care, Memory Stick Duo, i.LINK, MagicGate and MOTION EYE are trademarks of Sony in the U.S. and in other countries. Microsoft, Windows and Windows are trademarks of the Microsoft Corporation in the U.S. and in other countries. Intel is a registered trademark. Intel is a trademark of Intel Corporation in the US and other countries. Bluetooth is a registered trademark of SIG, Inc. Symantec, the Symantec Logo, and Norton Internet Security are trademarks or registered trademarks of Symantec Corporation or its affiliates in the U.S. and other countries. ENERGY STAR is a registered U.S. trademark. All other trademarks are trademarks of their respective owners.