

## Standout from the crowd

### MULTIMEDIA MADE SIMPLE

Rediscover your favorite music, photos and more with Media Gallery. Developed with design in mind, Media Gallery includes a stunning UI with easy-to-use features and technology that takes the work out of enjoying your media. In one-step you can easily simplify your massive music library into unique playlists. SensMe™ Technology suggests photos and music based on your unique viewing and listening habits, reminding you of forgotten favorites. Plus, with integrated GraceNote™ and YouTube™ support, you can get the full scoop on your favorite artist or uncover music videos and interviews you didn't know existed.

PMB VAIO® Edition makes managing and enjoying your photos and home videos simple and easy. Instantly sort your photos and home videos by person, place, or date and reduce camera shake in your home videos effortlessly with this breakthrough technology.

Enjoy 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 HDTV without a myriad of extra cables (HDMI™ cable sold separately).

### POWERFUL PERFORMANCE

Enjoy the powerful performance of an AMD® Athlon™ II X2 P320 (2.10GHz<sup>1</sup>) and 4GB of pre-installed system memory.

The VAIO® EF Series laptop comes pre-installed with Genuine Microsoft® Windows® 7 Home Premium 64-bit - **Bilingual (English/French)**<sup>11</sup>.

Microsoft® Office Starter 2010<sup>10</sup> includes reduced-functionality versions of Word® and Excel® only, with advertising.

Store your favorite movies, important documents, and cherished family photos on the extra roomy 500GB<sup>2</sup> hard drive. Tackle virtually any graphics requirement with ATI Mobility Radeon™ HD 4250 graphics.

A 17.3"⁴ (1600x900) widescreen, LED backlit display uses power-efficient LCD technology and delivers dazzling colors and picture clarity.

### SUPERIOR SUPPORT FOR YOUR VAIO® COMPUTER

Not a PC Expert? Don't know what a "de-frag" is? No problem. We've designed an easy-to-use tool that lets you tune up, update and troubleshoot your VAIO® PC with just a few clicks. An ASSIST button on the keyboard panel that puts this helpful program right at your fingertips.

International service provides you with coverage in over 40 countries; Sony assures that your VAIO® laptop will have a broad range of services and support wherever you travel.

Enjoy performance and multimedia entertainment in an affordable 17.3"⁴ LED backlit widescreen laptop with an integrated number pad. Add to that an AMD® Athlon™ II X2 P320 processor, loads of RAM and amazing picture quality; you'll have everything you need in one sleek package.



# VPCEF21FDBI

## VAIO® E Series Laptop PC

### Specifications

#### General

Computer Type: Notebook  
Action Buttons: ASSIST  
Pointing Device: Electro-static touchpad

#### Hardware

Keyboard: QWERTY, 103 keys with 2.0mm stroke and 19.05mm pitch - **Bilingual (English/French)**  
Camera: Built-in MOTION EYE® camera and microphone with face-tracking technology  
10-Key Numeric Pad: Yes

#### Processor

Type: AMD® Athlon™ II X2 P320  
Speed: 2.10GHz<sup>1</sup>  
L2 Cache: 1MB

#### Memory

Installed: 4GB (2GBx2)  
Maximum: 8GB  
Type/Speed: DDR3/1066MHz

#### Hard Drive

Capacity: 500GB<sup>2</sup>  
Speed: 5400rpm  
Type: Serial ATA

#### Optical Drive

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™ (STD / Duo) media slot with MagicGate® functionality  
One Secure Digital (SD memory card) media slot

#### Audio

Sound System: Intel® High Definition Audio

#### Display

Screen Size: 17.3"<sup>4</sup>  
Resolution: 1600 x 900  
Back Light Technology: LED

#### Graphics

Processor: ATI Mobility Radeon™ HD 4250 Graphics

#### Inputs and Outputs

Headphone Jack: 1  
Microphone Input: 1  
USB Port(s): 4 (2.0 compliant)  
VGA Output(s): 1  
DC-In: 1  
Ethernet Connection (s): 1  
HDMI™ Output: 1  
Internal Microphone: 1

#### Power

Battery Type: Standard Capacity Lithium-ion Battery  
DVD Playback: Up to 2.5 hours<sup>7</sup> Standard Capacity Battery  
Default Brightness: Up to 3 hours<sup>7</sup> Standard Capacity Battery  
Maximum Brightness: Up to 2 hours<sup>7</sup> Standard Capacity Battery

#### Start-up Times

Average Boot Time: 60 sec<sup>13</sup>  
Average Resume Time from Suspend: 2 sec<sup>13</sup>  
First Boot Time: 5 min<sup>14</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>3</sup>

#### Software

Operating System: Genuine Microsoft® Windows® 7 Home Premium 64-bit - **Bilingual (English/French)**<sup>11</sup>  
Supplied Software: Microsoft® Office 2010 Starter<sup>10</sup>  
System Maintenance and Support: VAIO Care™ - System diagnostics and maintenance  
Sony® Creativity Suite: PMB – VAIO® Edition - Import, organize, edit and publish in one easy-to-use program  
VAIO® Media Gallery - Bring forgotten favorites to life  
\*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

#### Service and Warranty Information

Telephone Support: 1 Year<sup>8</sup>  
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

#### Environmental Information

EPEAT™ : Gold  
RoHS®: Compliant  
ENERGY STAR®: 5.0

#### Dimensions

Weight: 6.7 lbs (with standard capacity battery)  
Measurements: 16.1"(W) x 1.29"-1.50"(H) x 10.79"(D)<sup>5</sup>

#### Supplied Accessories

Standard Capacity Lithium-ion Battery (3500mAh)  
AC Adapter  
Power Cord

#### Optional Accessories

Stick AC Adapter (VGP-AC19V30)  
Large Capacity Battery (VGP-BPS22A)  
Keyboard Skin (VGP-KBV3)  
Wireless Laser Mouse (VGP-WMS30)  
Campus Messenger Bag (VGP-AMB14/B)  
VAIO® Notebook Backpack (VGP-CCP5/L)  
VAIO® Notebook + AC Adapter Case (VGP-AMC2)  
VAIO® Canvas Urban Messenger Bag (VGP-AMB12)

Color: Gunmetal Black

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 a compatible 802.11 access point (802.11n recommended) and internet connection.
4. Viewable area measured diagonally.
5. Measured at the narrowest point
6. iLINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an iLINK connector may not communicate with each other.
7. Rating based upon laboratory testing. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.
8. See actual limited warranty for details.
9. Broadband Internet service required along with third party services which may require a subscription or other service fee.
10. Includes Microsoft® Office 2010 preloaded. Purchase a Product Key to activate a full Microsoft Office 2010 suite.
11. Compatibility and performance in a 64-bit environment may vary.
12. Requires high definition capable display with HDMI™ connector. Image quality will vary.
13. Based on original factory image and will vary with product configuration changes and additional software added to the hard drive.
14. Excluding end user interaction

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.  
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