

# Panasonic

## ideas for life

Panasonic recommends  
Windows Vista® Business



# TOUGHBOOK CF-30

High-performance mobile PC  
that withstands shocks, spills, and dust

OS	Genuine Windows Vista® Business Service Pack 1
CPU	Intel® Core™2 Duo Processor SL9300 (1.60 GHz, 6 MB*1 L2 cache, 1066 MHz FSB)
Color TFT-LCD	13.3" XGA
HDD	160 GB*2
RAM	2 GB*1


Bluetooth® (Ver.2.0+EDR/Class1) for easy communication and connectivity with peripherals.


Bluetooth® Ver.2.0+EDR\*, with maximum transfer speed of 3 Mbps is built in. Class 1 supported. Devices such as digital cameras, mobile phones and other terminals can be easily connected without cables to increase efficiency at the work site.

\*EDR is an acronym for Enhanced Data Rate.


Easy removable battery and hard disk.



 High-brightness LCD (1,000 cd/m<sup>2</sup>) \*3 with Circular Polarizing Touch Screen and Anti-Reflection (AR) coating for easy viewing under direct sunlight.

 Operates with the standard battery for approx. 9 hours.\*5

 Built-in security chip (TPM)\*6 for data protection.

 Full magnesium alloy case with Integrated Handle ensured by a 90-cm (36 in) free-fall test.\*4

All-In-One model featuring a variety of options.\*7  
— GPS, WWAN, Optical Drives, Fingerprint reader, 2nd Battery Pack, Smart Card, Backlit Keyboard

\*1 1 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes. \*2 The HDD is 1 GB (1,000,000,000 bytes) in capacity. The actual capacity may be less than displayed, depending on the OS and application software. \*3 Only for model with CF-30KT Series. Average luminance in the middle of the screen at the time of shipping. This may change depending on the environment and length of use. \*4 Test conducted in non-operating condition. The shock resistance, vibration resistance, dust-proof, and splash-proof functions are not a guarantee against damage or malfunction. \*5 The period of battery operation time varies according to the operating environment, LCD brightness, and system settings. Windows Vista Business, measured using MobileMark® 2007 at LCD brightness: 60 cd/m<sup>2</sup>. Varies depending on the usage conditions, or when an external device is attached. Windows XP Professional, measured using MobileMark® 2005 (LCD brightness: 60 cd/m<sup>2</sup>). \*6 Available for some countries' model. Need to set-up TPM Professional Package. Refer to the Installation Manual of "TrustedPlatform Module (TPM)". \*7 For details, contact your Panasonic sales representative. \* The shock resistance, vibration resistance, dust-proof, and splash-proof functions are not a guarantee against damage or malfunction.

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## CF-30

Model No.		CF-30KT Series
OS <sup>*1</sup>	Base OS	Genuine Windows Vista® Business Service Pack 1
	Optional OS <sup>*2</sup>	Genuine Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File System)
CPU/Secondary cache memory		Intel® Core™ 2 Duo Processor SL9300 (1.6 GHz, 6 MB <sup>3</sup> L2 cache, 1066 MHz FSB)
Chipset		Mobile Intel® GS45 Express Chipset
Memory <sup>*3,4</sup>		2 GB (4 GB Max.)
Video Memory <sup>*3,5</sup>		Vista: UMA 797 MB Max. (When Memory is 2 GB)/1551 MB Max. (When Memory is 4 GB) XP: UMA (384 MB Max.)
Hard Disk Drive <sup>*6</sup>		160 GB Vista: Approx. 2 GB is used as a partition with recovery tools. (User cannot use this partition)
Display Method		13.3 XGA type (TFT) with Touchscreen
	Internal LCD <sup>*7</sup>	65,536/16,777,216 colors (800 x 600 dots/1024 x 768 dots)
	External Display <sup>*8</sup>	65,536/16,777,216 colors (800 x 600 dots/1024 x 768 dots/1280 x 768 dots/1280 x 1024 dots)
Wireless LAN <sup>*9</sup>		Intel® WiFi Link 5100 IEEE802.11a/b/g compliant, IEEE802.11n Draft 2.0 compliant <sup>*10</sup>
Bluetooth <sup>*11</sup>		Version 2.0 + EDR
LAN		IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T
Modem		Data: 56 kbps (V.92) FAX: 14.4 kbps
Sound		WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Monaural speaker
Security Chip		TPM (TCG V1.2 compliant) <sup>*12</sup>
Card Slot		PC Card ExpressCard SD Memory Card <sup>*13</sup> Smart Card <sup>*15</sup>
		Type I or Type II x 1 (3.3 V: 400 mA, 5 V: 400 mA) ExpressCard/34 or ExpressCard/54 x 1 x 1, Data transfer rate = 8 MB per second <sup>*14</sup> ISO7816 x 1
RAM Module Slot		200-pin, 1.8 V, SO-DIMM, DDR2 SDRAM, PC2-5300 Compliant
Interface		USB port (4-pin, USB 2.0) x 3, Serial port (Dsub 9-pin male), Modem port (RJ-11), LAN port (RJ-45), External display port (Mini Dsub 15-pin female), Expansion Bus Connector (Dedicated 80-pin female), External Antenna Connector (Dedicated 50 Ω coaxial connector), IEEE 1394a Interface Connector (4-pin x 1), Microphone Jack (Miniature jack, 3.5 DIA, Stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW x 2)
Keyboard / Pointing Device		87 keys / Touch Pad / Touchscreen (Anti-Reflection, Stylus (included) touch capable)
Power Supply		AC adaptor or Battery pack
AC Adaptor <sup>*16</sup>		Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 5.0 A
Battery Pack		Main Battery: Li-ion 10.65 V, 8.55 Ah Second Battery: Li-ion 11.1V, 3.9Ah
	Operating Time <sup>*17</sup>	Main Battery: Approx. 9 hours <sup>*18</sup> Main Battery + Second Battery: Approx. 12.5 hours <sup>*18</sup>
	Charging Time <sup>*17</sup>	Power on Main Battery: Approx. 8.5 hours Main Battery + Second Battery: Approx. 12.5 hours Power off Main Battery: Approx. 5 hours Main Battery + Second Battery: Approx. 8 hours
Clock Battery		Coin type lithium battery 3.0 V
Power Consumption <sup>*19</sup>		Approx. 50 W <sup>20</sup> / Approx. 70 W (Maximum when recharging in the ON state)
Physical Dimensions (W x H x D)		302 mm x 67.5 - 69.5 mm x 292 mm {11.9" x 2.7 - 2.8" x 11.5"}
Weight		Approx. 3.8 kg (Approx.8.4 lb), excluding the dummy pack and dummy cards (Approx. 50 g (Approx.1.8 oz))
Operation Environment		Temperature: 5 °C to 35 °C (41 °F to 95 °F) Humidity: 30% to 80% RH (No condensation)
Storage Environment		Temperature: -20 °C to 60 °C (-4 °F to 140 °F) Humidity: 30% to 90% RH (No condensation)
Pre-installed Software <sup>*1</sup>		Adobe Reader, PC Information Viewer, Loupe Utility, Intel® PROSet/Wireless Software <sup>*20</sup> , Bluetooth® Stack for Windows® by TOSHIBA <sup>*11</sup> , Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Infineon TPM Professional Package V3.0 <sup>*21</sup> , Power Saving Utility, Wireless Connection Disable Utility <sup>*21</sup> , Concealed mode Utility <sup>*22</sup> Setup Utility, Hard Disk Data Erase Utility <sup>*23</sup> , PC-Diagnostic Utility

<sup>\*1</sup> Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the Product Recovery DVD-ROM provided by Panasonic. <sup>\*2</sup> When 25 or more units will be purchased in one year. This is a model pre-installed with Windows XP Professional and prepared on behalf of customers who purchase a Windows Vista Business model and wish to exercise their right to downgrade the OS. <sup>\*3</sup> 1 MB = 1,048,576 bytes/1GB = 1,073,741,824 bytes. <sup>\*4</sup> You can physically expand the memory up to 4096 MB, but the total amount of usable memory available will be less depending on the actual system configuration. <sup>\*5</sup> A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user. <sup>\*6</sup> 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB. <sup>\*7</sup> A 16,777,216 color display is achieved by the dithering function. <sup>\*8</sup> Maximum resolution depends on the specifications of the external display. Display may be impossible using some connected external displays. <sup>\*9</sup> Only for model with wireless LAN. <sup>\*10</sup> It does not correspond to IEEE802.11a+b+g+n standards. Actual speeds may differ. <sup>\*11</sup> Only for model with Bluetooth. <sup>\*12</sup> Available for some countries' model. Need to set-up TPM Professional Package. Refer to the Installation Manual of "TrustedPlatform Module (TPM)". <sup>\*13</sup> SD Memory Cards that support high-speed transfer rates can be used. Windows ReadyBoost function is also supported. Operation has been tested and confirmed using Panasonic SD Memory Cards and SDHC Memory Cards with a capacity of up to 8 GB. Operation on other SD equipment is not guaranteed. This computer is not compatible with MultiMediaCards. Do not insert these kinds of cards. <sup>\*14</sup> The theoretical value is not the actual speed. The transfer rate does not become higher even if you use a card that supports the higher transfer rate. <sup>\*15</sup> Only for model with Smart Card slot. <sup>\*16</sup> Only for North America- The AC adaptor is compatible with power sources up to 240 V AC adaptor. The computer is supplied with a 125 V AC compatible AC cord. <sup>\*17</sup> Varies depending on the usage conditions. <sup>\*18</sup> Windows Vista Business, measured using MobileMark® 2007 at LCD brightness: 60 cd/m<sup>2</sup>. Varies depending on the usage conditions, or when an external device is attached. Windows XP Professional, measured using MobileMark® 2005 (LCD brightness: 60 cd/m<sup>2</sup>). <sup>\*19</sup> Approx. 0.9 W when the battery pack is fully charged (or not being charged) and the computer is OFF. <sup>\*20</sup> Rated power consumption. <sup>\*21</sup> You need to install to use the feature. <sup>\*22</sup> Concealed Mode may not work properly during battery recalibration. <sup>\*23</sup> The Product Recovery DVD-ROM is required.

As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix color display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artifact of the manufacturing process (effective pixels: minimum 99.998%, defect pixels: maximum 0.002%), Panasonic and TOUGHBOOK are brand names and registered trademarks of Panasonic Corporation, Acrobat® is a registered trademark of Adobe® Systems Incorporated, Intel, the Intel logo, Centrino, Centrino Inside, Intel Core, Core Inside, Intel vPro, and vPro Inside are trademarks of Intel Corporation in the United States and other countries. Microsoft®, Windows® and Windows Vista® are trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances.



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