

# TOUGHBOOK

## CF-30<sub>Mk2</sub>

Field Rugged Series



### Main Features

**Tested to MIL-STD-810F. IP54 Rated.**  
Shock-resistant body survives a 90-cm free-fall test.\*1

**Operates with the standard battery for up to 8 hours.\*2**

**High-brightness LCD with Circular Polarising Touch Screen and anti-reflection (AR) coating for easy viewing under direct sunlight (1000 nit).**

**Various options can be built-in:\*3**  
GPS, 3G, Optical Drive, Fingerprint Scanner, Smart Card Reader, 2nd Battery Pack, Backlit Keyboard.

■ Integrated Bluetooth™ as standard.

■ The pressure sensitive touchscreen and touchpad can be operated even while wearing gloves.

■ Easy hard disk removal and security functions for hard disk protection.

■ Serial, USB 2.0 and IEEE 1394a connectors as standard.

■ Integrated handle for increased efficiency when operating in the field.

Panasonic Recommends Microsoft®Windows Vista™ Business.

## A High-Performance Ruggedised Mobile Notebook with Shock-, Spill- and Dust-Resistance

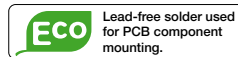


A free fall test is conducted on each surface, side, and corner in every direction, making a total of 26 directions\*.

\* The product is dropped onto plywood. The photograph is intended only to show an image of the product being tested.



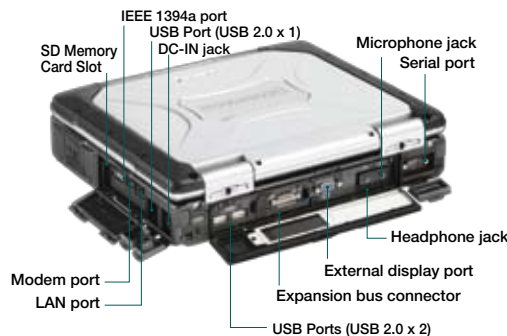
We implement environment management systems in our factories worldwide and have acquired ISO14001 certification.



Lead-free solder used for PCB component mounting.

### Interface

#### • Right Side/Back



#### • Left Side/Front



- Microsoft® Windows® Vista™ Business (XP Downgrade DVD in box)
- Intel® Centrino® Technology:
  - Intel® Core 2™ Duo Processor (Low voltage version L7500): 4-MB L2 cache, 1.60 GHz, 800-MHz FSB
  - Built-in Intel® PRO/Wireless 4965 ABG (802.11a/b/g)
  - Security-Authentication: LEAP, WPA, 802.1X, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Bluetooth™ 2.0
- HDD: 80 GB\*4 SATA
- RAM: Standard 1 GB\*5 (4 GB max.\*6)\*7
- TFT color LCD: 13.3" supporting XGA resolution



\*1 Test conducted in non-operating condition. The shock resistance, vibration resistance, dust-proof, and splash-proof specifications do not guarantee that the product can be operated without damage or malfunction. \*2 The period of battery operation time varies according to the operating environment, LCD brightness, and system settings. Measured using BatteryMark™ Ver.4.0.1 (LCD brightness Minimum). \*3 For details, contact your Panasonic sales representative. \*4 The actual HDD capacity may be less than displayed, depending on the OS and application software. \*5 1 MB = 1,048,576 bytes. \*6 When the existing 1GB DIMM is replaced with a 2-GB DIMM. \*7 1 GB = 1,000MB. Operating system or some application software will report as fewer GB.

**Panasonic**  
ideas for life

CF-30Mk2		CF-30FTSAXAM
<b>Operating System</b>		Microsoft® Windows® Vista™ Business (XP Downgrade DVD in box)
<b>CPU</b>		Intel® Centrino® Core 2 Duo Processor L7500 (1.60 GHz, 4 MB <sup>1</sup> L2 cache, 800 MHz FSB)
<b>Chipset</b>		Intel® GM965
<b>Memory<sup>1</sup></b>		1GB (1 GB Max.) DDR2 SDRAM
<b>Video Memory<sup>1,2</sup></b>		UMA (384 MB Max.)
<b>Hard Disk Drive<sup>3</sup></b>		80 GB SATA
<b>Display Method</b>		13.3 XGA type (TFT) with Touchscreen 1000cd/m <sup>2</sup>
<b>Wireless LAN</b>		Intel PRO / Wireless 4965 ABG (802.11 a + b + g)
<b>Bluetooth</b>		Version 2.0+EDR
<b>LAN</b>		IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T (10/100/1000)
<b>Modem</b>		Data: 56 kbps (V.92) FAX: 14.4 kbps
<b>Sound</b>		WAVE and MIDI playback, Monaural speaker, Intel® High Definition Audio subsystem support
<b>Security Chip</b>		TPM (TCG V1.2 compliant)
<b>Card Slot</b>	PC Card ExpressCard HCSD Memory Card <sup>8</sup> Smart Card <sup>10</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>9</sup> x 1 Optional
<b>RAM Module Slot</b>		200-pin, 1.8 V, SO-DIMM, DDR2 SDRAM, PC2-4200 Compliant
<b>Interface</b>		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, Monaural), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW x 2)
<b>Keyboard / Pointing Device</b>		87 keys / Touch Pad / Touchscreen (Anti-Reflection, Stylus (included) touch capable)
<b>Power Supply</b>		AC adaptor, DC adaptor or Battery pack
<b>AC Adaptor</b>		Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 5.0 A
<b>Battery Pack</b>		Li-ion 10.65 V, 8.55 Ah
	Operating Time <sup>11</sup>	Approx. 4hours at set to maxim brightness setting(typ:1000nit) Approx. 5hours (typ:500nit) to Approx. 8hours at BIOS default setting <sup>12</sup> Approx. 8hours <sup>13</sup>
	Charging Time <sup>11</sup> (Power on)	Approx. 8.5Hours
<b>Rated Power Consumption</b>		Approx.45W
<b>Physical Dimensions (W × H × D) (including the carrying handle)</b>		302 mm × 67.5 - 69.5 mm × 292 mm
<b>Weight (including the carrying handle)</b>		Approx. 3.8 kg
<b>Operating Environment</b>		Temperature: 5 °C to 35 °C Humidity: 30% to 80% RH (No condensation)
<b>Storage Environment</b>		Temperature: -20 °C to 60 °C Humidity: 30% to 90% RH (No condensation)
<b>Utility Programs</b>		DMI Viewer, Microsoft® Windows® Media Player 10, Adobe Reader, PC Information Viewer, SD Utility, Icon Enlarger, Loupe Utility, Intel® Matrix Storage Manager, Intel® PROSet/Wireless Software, Bluetooth Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Infineon TPM Professional Package <sup>14</sup> , Recover Pro™ <sup>6,14</sup> Setup Utility, Hard Disk Data Erase Utility <sup>15</sup> , PC-Diagnostic Utility

\*1 1GB = 1,000MB.

\*2 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.

\*3 1GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.

\*4 A 16,777,216 color display is achieved by using the dithering function.

\*5 Maximum resolution depends on the specifications of the external display.

\*8 Operation has been tested and confirmed using Panasonic SD Memory Cards with a capacity of up to 32 GB.

The transfer rate using the SD Memory Card slot on this computer is 8 MB per second. (This is a theoretical value, and differs from actual speeds.)

The transfer rate is 8 MB per second even if you use an SD Memory Card that supports high-speed transfer rates.

Operation on other SD equipment is not guaranteed.

This computer is not compatible with MultiMediaCards.

\*9 Theoretical value and not the actual speed. The transfer rate does not become higher even if you use a card that supports the higher transfer rate.

\*10 Only for model with Smart Card slot.

\*11 Varies depending on the usage conditions.

\*12 Measured using BatteryMark. Version 4.0.1 (LCD brightness: Maximum - Minimum at BIOS default setting).

\*13 Measured using MobileMark. 2002 (LCD brightness: 60 cd/m<sup>2</sup>).

\*14 You need to install to use the feature.

\*15 The Product Recovery DVD-ROM is required.

Panasonic reserves the right to change design and specifications with out notice.

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