Panasonic ideas for life



TOUGHBOOK

CF-31

Latest TOUGHBOOK information

http://panasonic.net /avc/pc/

When it's worth doing better.

Latest platform offers even higher performance and amazing protection against shock, dust, and water.



Windows 7 Professional



Intel® CoreTM i5-3320M (3.3 GHz, Cache 3MB*¹)*² with Intel® Turbo Boost Technology

Color TFT LCD

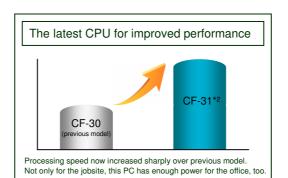
13.1" XGA Touchscreen

HDD

500 GB*2*3 (Serial ATA)

RAM

4 GB*1 (8 GB*1 Max.)







High-brightness LCD (1,200 nit)*4 with Anti-Reflection (AR) coating for easy viewing under direct sunlight.



Shock-resistant bodyensured by a 120 cm (48 in) free-fall test.*5



Operates with the standard battery for approx. 14.5 hours.*6 / approx. 21 hours*6 with 2nd battery*9 (option)



Built-in security chip $(TPM)^{*7*8}$ for data protection.

*1 1 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes. *2 Applies to CF-31 Performance model. *3 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. *4 Average luminance in the middle of the screen at the time of shipping. This may change depending on the environment and length of use. *5 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. *6 When OS is Windows 7. Measured with LCD brightness: 60 cd/m2. Varies depending on the usage conditions, or when an optional device is attached. *7 Need to set-up TPM Professional Package. Refer to the Installation Manual of "TrustedPlatform Module (TPM)". *8 Does not apply to CF-31 Value model. *9 For details, contact your Panasonic sales representative. Only for model with 2nd battery. Not available for performance model.

Panasonic recommends Windows.









With the latest platform, both high performance and a high level of toughness are achieved.

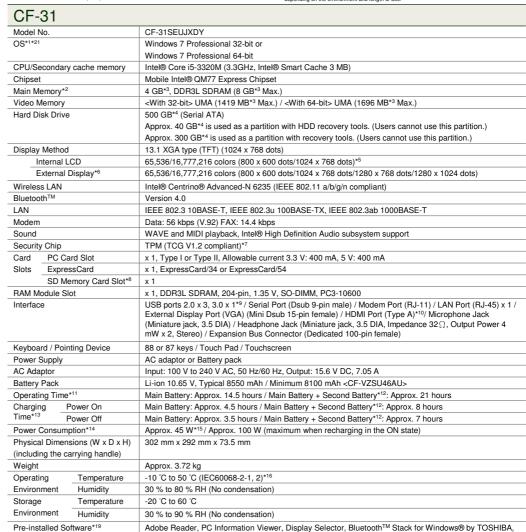


TOUGHBOOK unique technology on the web

>>http://panasonic.net/avc/ pc/about/proof/

Other Features

- · High screen brightness of approx. 1,200 nit* using
- · Easy-to-use hardware interface includes 4 USB ports and HDMI terminal.
- · Desktop Port Replicator (option) makes it easier to use in the office.
- * Average luminance in the middle of the screen at the time of shipping. This may change depending on the environment and length of use.





*1 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.*2 Memory size of the factory default depends on the model. You can physically expand the memory up to 8 GB, but the total amount of usable memory available will be less depending on the actual system configuration.*3 1 MB = 1,048,576 bytes /1 GB = 1,073,741,824 bytes.*4 1 MB = 1,000,000 bytes.*1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer MB/GB.*5 A 16,777,216 color display is achieved by using the dithering function.*6 Display may be impossible using some connected external displays.*7 Only for model with TPM. For information on TPM, refer to the Installation Manual of "TrustedPlatform Module (TPM).*8 This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC/SDXC Memory Cards with a capacity of up to 64 GB. Operation on other SD equipment is not guarantee operation of all EMD-compatible peripherals.*11 Measured with LCD brightness: 60 cd/m2. Varies depending on the usage conditions, or when an optional device is attached. *12 Only for model with 2nd Battery. *13 Varies depending on the usage conditions, CPU speed, etc.*14 Approx. 0.8 W when the battery pack is fully charged (or not being charged) and the computer is off. *When using with 115 V AC> Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet. *VNen using with 240 V AC> Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet. *15 Rated power consumption.*16 Do not expose the skin to this product when using the product in a hot or cold environment. Product functions and product life may vary in such condition, check the Operation Instructions for further details *17 Must be installed before use.*1 installed using the hard disk recovery function or the recovery disc can be supported

Wireless Switch Utility, Intel® PROSet / Wireless Software, Wireless Connection Disable Utility*¹⁷, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package*¹⁷, Aptio Setup Utility, Hard Disk Data Erase Utility 18, PC-Diagnostic Utility, Quick Boot Manager, Fan Monitoring Utility, Dashboard fro Panasonic PC, System Interface Manager, Video Switch Utility, External Antenna Setting Utility, Wireless Antenna Switch Utility, Recovery Disc Creation Utility, Power Plan Extension Utility

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 contai 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 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. 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