THE TOUGHBOOK 31

Powerful, rugged and wireless.

Panasonic presents the Toughbook[®] 31, the reliable laptop offering the highest performance in its class along with the world's most rugged design. With drop-shock protection and an MIL-STD-810G certification, it's the undisputed leader in the fully-rugged category. Its new Intel[®] Core[™] i5 and i3 processors, along with available discrete graphics, pack a punch to deliver desktop-class performance and improved video/3D graphics. An integrated webcam option and larger storage capacity set the Toughbook 31 apart from the competition. Five generations of delivering rugged performance plus 11 years of consistent docking compatibility, and you have a computer that will go the distance with you anytime, anywhere.



Panasonic ideas for life

THE NEW PA		Care a
DURABILITY FEATURES	 MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/ thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)¹ MIL-STD-461F certified IP65 certified sealed all-weather design¹ UL1604 class I, division 2, groups ABCD certified model 	FLOARENDOOM
	HDD heater Full magnesium alloy case with handle Shock-mounted flex-connect hard drive with quick-release Reinforced locking port covers Pre-installed replaceable screen film for touchscreen protection	
SOFTWARE	 Genuine Windows[®] 7 Professional (with XP downgrade option) Setup, Diagnostics, PC Information Viewer, Online Reference Manual, Adobe[®] Reader, Battery Recalibration Utility, Zoom Utility, Concealed Mode Utility, Hard Disk Data Erase Utility, Recovery DVD 	
CPU	Intel® Core [™] i5-540M vPro [™] Processor - 2.53GHz with Turbo Boost up to 3.07GHz - Intel Smart Cache 3MB Intel® Core [™] i5-520M vPro [™] Processor	
	 – 2.40GHz with Turbo Boost up to 2.93GHz – Intel Smart Cache 3MB Intel[®] Core[™] i3-350M Processor – 2.26GHz – Intel Smart Cache 3MB 	 MIL-STD-810G and IP65 Certified¹ 6-foot Drop Rating¹ Sunlight-viewable Touchscreen with
STORAGE & MEMORY	 2GB SDRAM (DDR3-1066MHz) standard, expandable to 8GB^{2,3} Shock-mounted flex-connect hard drive with quick-release³ 250GB (540M CPU) or 160GB (520M and 350M CPU) 	Panasonic CircuLumin™ Technology⁴ ■ Full Magnesium Alloy Case with Handle
DISPLAY	 Optional 256GB solid state drive (SSD) 13.1" 1024 x 768 XGA sunlight-viewable touchscreen LCD Panasonic CircuLumin" technology: 2-1100 nit 	 Desktop-class Performance 3G Mobile Broadband and GPS-ready Design SECURITY FEATURES
	 Anti-reflective and anti-glare screen treatments Circular polarizer¹ External video support up to 1280 x 1024 at 16.7 million colors 540M CPU with switchable graphics in BIOS: ATI Radeon¹¹ HD5650, 512MB dedicated VRAM Intel QM57 video controller, max. 1024MB UMA VRAM on XP² 520M CPU: 	 Password Security: Supervisor, User, Hard Disk Lock Kensington cable lock slot Trusted platform module (TPM) security chip v.1.2⁴ Computrace[®] theft protection agent in BIOS⁶ Optional fingerprint reader Optional SmartCard reader
	 Intel QM57 video controller, max. 1024MB UMA VRAM on XP² 350M CPU: Intel HM55 video controller, max. 1024MB UMA VRAM on XP² Concealed mode 	WARRANTY • 3-year limited warranty, parts and labor DIMENSIONS & WEIGHT • 11.5"(L) x 11.9"(W) x 2.9"(H)
AUDIO	LED backlighting Intel® high-definition audio compliant Integrated front-facing speaker Convenient keyboard volume and mute controls	 T.S (E) A TI.S (W) A 2.S (H) 7.9 or 8.2 lbs. (varies by battery type) INTEGRATED OPTIONS⁷ Gobi^w2000 mobile broadband (EV-DO Rev. A, HSPA) Webcam⁴
Keyboard & Input	 Touchscreen LCD Integrated stylus holder 87-key with dedicated Windows[®] key Pressure-sensitive touchpad with vertical scrolling support 	 Webcam; GPS receiver Backlit keyboard – sealed rubber or plastic emissive 2nd LAN (10/100)⁴ or FireWire or Modem SmartCard reader
MULTIMEDIA POCKET EXPANSION SLOTS	 Will accept optional DVD Super MULTI Drive PC card type II x 1 SD card (SDHC) ExpressCard/54 x 1 	Fingerprint reader HDD and battery lock ACCESSORIES ⁷ AC Adapter (3-pin) CF-AA5713AM
INTERFACE	Port replicator 80-pin HDMI Type A VGA D-sub 15-pin Headphones/speaker Mini-jack stereo Microphone/line in Mini-jack stereo	Battery Charger CF-VCBTB1W Lightweight Battery Pack CF-VZSU65U Long Life Ion Battery Pack CF-VZSU46AU LIND Car Adapter CF-LNDDC120 LIND Car Adapter
	Serial D-sub 9-pin Ext. antenna conn. 50 ohm coaxial USB 2.0 (x 4) 4-pin Optional IEEE 1394a (FireWire) 4-pin	Mounting Bracket CF-LNDBRK120 • LIND Low Profile Shutdown Timer CF-LNDLPT • Touchscreen Large Stylus
WIRELESS	10/100/1000 Ethernet RJ-45 Optional 10/100 2 rd LAN (Ethernet) RJ-45 Optional 56K modem RJ-11 Optional integrated Gobi [™] 2000 mobile broadband Intel [®] Centrino [®] Advanced-N 6200 802.11a/b/g/n (i5 CPU models)	with Tether Hole CF-VNP009U • InfoCase ComUniversal Carrying Case (large capacity) Carrying Case Backpack TM-UNIVBPK-P
	 Atheros 802.11b/g/n (i3 CPU model) Bluetooth® v2.1 + EDR Security Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES High-gain antenna pass-through (single standard, dual optional) 	InfoCase Sling 31 Case TBC31CASE-P DVD Super MULTI Drive CF-VDM311U Memory Cards - 2GB DDR3 CF-WMBA902G - 4GB DDR3 CF-WMBA904G Desktop Port Replicator CF-VEB311
POWER SUPPLY	 Slide on/off switch i5 CPU: Battery operation: Approx. 11 hours (520M CPU or 540M CPU running Intel graphics), Approx. 5 hours (540M CPU running ATI graphics)⁶ 	Vehicle Port Replicator – no pass-through – single pass-through – dual pass-through TBD
	 Long life Li-lon battery pack (10.65V, typical 8550mAh, minimum 8100mAh) Battery charge time: 3.5 hours off, 4.5 hours on i3 CPU: Battery operation: Approx. 7 hours (with lightweight battery)⁵ Lightweight Li-lon battery pack (11.1V, typical 5200mAh, minimum 5000mAh) Battery charge time: 3 hours off, 3.5 hours on AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply 	13.1" LCD Protector Film CF-VPF15U Please consult your reseller or Panasonic representative before purchasing. Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections13.4, 13.6.2, 14.2.5 and 14.3 for IP65. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Windows 7 max. VRAM is 763MB with 2GB of memory, or 1435MB
POWER MANAGEMENT	 Pop-up, on-screen battery status reporting Suspend/Resume Function, Hibernation, Standby, ACPI BIOS 	with 4GB of memory.
	asonic.com/toughbook/31 e from Panasonic Finance Solutions;	to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.
please call number above for m		Requires software and activation to enable theft protection. 7 Accessories and Integrated Options may vary depending on your notebook configuration.

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Financing options now available from Panasonic Finance Solutions; please call number above for more details.

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