# THE TOUGHBOOK 31

### Powerful, rugged and wireless.

Panasonic presents the Toughbook<sup>®</sup> 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<sup>®</sup> Core<sup>™</sup> 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	<ul> <li>MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/ thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)<sup>1</sup></li> <li>MIL-STD-461F certified</li> <li>IP65 certified sealed all-weather design<sup>1</sup></li> <li>UL1604 class I, division 2, groups ABCD certified model</li> </ul>	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	<ul> <li>Genuine Windows<sup>®</sup> 7 Professional (with XP downgrade option)</li> <li>Setup, Diagnostics, PC Information Viewer, Online Reference Manual, Adobe<sup>®</sup> Reader, Battery Recalibration Utility, Zoom Utility, Concealed Mode Utility, Hard Disk Data Erase Utility, Recovery DVD</li> </ul>	
CPU	Intel® Core <sup>™</sup> i5-540M vPro <sup>™</sup> Processor     - 2.53GHz with Turbo Boost up to 3.07GHz     - Intel Smart Cache 3MB     Intel® Core <sup>™</sup> i5-520M vPro <sup>™</sup> Processor	
	<ul> <li>– 2.40GHz with Turbo Boost up to 2.93GHz</li> <li>– Intel Smart Cache 3MB</li> <li>Intel<sup>®</sup> Core<sup>™</sup> i3-350M Processor</li> <li>– 2.26GHz</li> <li>– Intel Smart Cache 3MB</li> </ul>	<ul> <li>MIL-STD-810G and IP65 Certified<sup>1</sup></li> <li>6-foot Drop Rating<sup>1</sup></li> <li>Sunlight-viewable Touchscreen with</li> </ul>
STORAGE & MEMORY	<ul> <li>2GB SDRAM (DDR3-1066MHz) standard, expandable to 8GB<sup>2,3</sup></li> <li>Shock-mounted flex-connect hard drive with quick-release<sup>3</sup></li> <li>250GB (540M CPU) or 160GB (520M and 350M CPU)</li> </ul>	Panasonic CircuLumin™ Technology⁴ ■ Full Magnesium Alloy Case with Handle
DISPLAY	<ul> <li>Optional 256GB solid state drive (SSD)</li> <li>13.1" 1024 x 768 XGA sunlight-viewable touchscreen LCD</li> <li>Panasonic CircuLumin" technology:</li> <li>2-1100 nit</li> </ul>	<ul> <li>Desktop-class Performance</li> <li>3G Mobile Broadband and GPS-ready Design</li> <li>SECURITY FEATURES</li> </ul>
	<ul> <li>Anti-reflective and anti-glare screen treatments</li> <li>Circular polarizer<sup>1</sup></li> <li>External video support up to 1280 x 1024 at 16.7 million colors</li> <li>540M CPU with switchable graphics in BIOS:</li> <li>ATI Radeon<sup>11</sup> HD5650, 512MB dedicated VRAM</li> <li>Intel QM57 video controller, max. 1024MB UMA VRAM on XP<sup>2</sup></li> <li>520M CPU:</li> </ul>	<ul> <li>Password Security: Supervisor, User, Hard Disk Lock</li> <li>Kensington cable lock slot</li> <li>Trusted platform module (TPM) security chip v.1.2<sup>4</sup></li> <li>Computrace<sup>®</sup> theft protection agent in BIOS<sup>6</sup></li> <li>Optional fingerprint reader</li> <li>Optional SmartCard reader</li> </ul>
	<ul> <li>Intel QM57 video controller, max. 1024MB UMA VRAM on XP<sup>2</sup></li> <li>350M CPU:</li> <li>Intel HM55 video controller, max. 1024MB UMA VRAM on XP<sup>2</sup></li> <li>Concealed mode</li> </ul>	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	<ul> <li>T.S (E) A TI.S (W) A 2.S (H)</li> <li>7.9 or 8.2 lbs. (varies by battery type)</li> <li>INTEGRATED OPTIONS<sup>7</sup></li> <li>Gobi<sup>w</sup>2000 mobile broadband (EV-DO Rev. A, HSPA)</li> <li>Webcam<sup>4</sup></li> </ul>
Keyboard & Input	<ul> <li>Touchscreen LCD</li> <li>Integrated stylus holder</li> <li>87-key with dedicated Windows<sup>®</sup> key</li> <li>Pressure-sensitive touchpad with vertical scrolling support</li> </ul>	<ul> <li>Webcam;</li> <li>GPS receiver</li> <li>Backlit keyboard – sealed rubber or plastic emissive</li> <li>2<sup>nd</sup> LAN (10/100)<sup>4</sup> or FireWire or Modem</li> <li>SmartCard reader</li> </ul>
MULTIMEDIA POCKET EXPANSION SLOTS	<ul> <li>Will accept optional DVD Super MULTI Drive</li> <li>PC card type II x 1</li> <li>SD card (SDHC)</li> <li>ExpressCard/54 x 1</li> </ul>	Fingerprint reader     HDD and battery lock     ACCESSORIES <sup>7</sup> 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 <sup>rd</sup> LAN (Ethernet) RJ-45     Optional 56K modem RJ-11     Optional integrated Gobi <sup>™</sup> 2000 mobile broadband     Intel <sup>®</sup> Centrino <sup>®</sup> 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
	<ul> <li>Atheros 802.11b/g/n (i3 CPU model)</li> <li>Bluetooth® v2.1 + EDR</li> <li>Security <ul> <li>Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP</li> <li>Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES</li> <li>High-gain antenna pass-through (single standard, dual optional)</li> </ul> </li> </ul>	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	<ul> <li>Slide on/off switch</li> <li>i5 CPU:</li> <li>Battery operation: Approx. 11 hours (520M CPU or 540M CPU running Intel graphics), Approx. 5 hours (540M CPU running ATI graphics)<sup>6</sup></li> </ul>	Vehicle Port Replicator     – no pass-through     – single pass-through     – dual pass-through     TBD
	<ul> <li>Long life Li-lon battery pack (10.65V, typical 8550mAh, minimum 8100mAh)</li> <li>Battery charge time: 3.5 hours off, 4.5 hours on</li> <li>i3 CPU:</li> <li>Battery operation: Approx. 7 hours (with lightweight battery)<sup>5</sup></li> <li>Lightweight Li-lon battery pack (11.1V, typical 5200mAh, minimum 5000mAh)</li> <li>Battery charge time: 3 hours off, 3.5 hours on</li> <li>AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply</li> </ul>	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	<ul> <li>Pop-up, on-screen battery status reporting</li> <li>Suspend/Resume Function, Hibernation, Standby, ACPI BIOS</li> </ul>	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.

## 1.800.662.3537 / panasonic.com/toughbook/31

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