HOWARD™
TECHNOLOGY SOLUTIONS

toughbook W5

Ultra-lightweight, Integrated Combo Drive

Howard Technology Solutions recommends Windows Vista™ Business

- *Full Magnesium Alloy Case*
- *Shock-mounted Hard Drive*
- *Ultra-portable 2.9 lbs.*
- *Long-lasting 8-hour-plus Battery Life*
- *Wide Area Wireless-ready Design*

toughbook

W5

Panasonic
ideas for life

HOWARD
TECHNOLOGY SOLUTIONS

Howard Technology Solutions recommends Windows Vista™ Business

SOFTWARE
- Genuine Windows® XP Professional SP2*
- Setup, Diagnostics, Online Reference Manual, Adobe® Reader

CPU
- Intel® Core™ Solo Processor U1400
  - 2MB L2 cache
  - Processor speed 1.20GHz
  - 533MHz FSB

STORAGE & MEMORY
- 512MB SDRAM (DDR2-533) standard, expandable to 1536MB (PC2-4200 memory is required)
- 60GB hard drive (shock-mounted and removable**)
- Combo drive (DVD-ROM/CD-RW) standard

DISPLAY
- 12.1" 1024 x 768 XGA anti-glare TFT active matrix color LCD
- External video support up to 2048 x 1536 and 16.7 million colors
- Intel® 945GMS integrated video controller max. up to 128MB (DVMT) VRAM

AUDIO
- SigmaTel™ STAC9751 AC-97 v.2.1 compliant
- Intel® high-definition (HD) audio
- Integrated speaker
- Convenient keyboard volume controls (Fn+F5/F6 keys)

EXPANSION SLOTS
- PC card type II x 1
- Secure Digital (SD) card

KEYBOARD & INPUT
- 83-key with dedicated Windows® key
- Electrostatic touchpad with continuous vertical scrolling support

INTERFACE
- Mini dock box replicator   50-pin
- External video   D-sub 15-pin
- Headphones/speaker   Mini-jack Stereo
- Microphone/line in   Mini-jack
- USB 2.0 (x 2)   4-pin
- 10/100 Ethernet   RJ-45
- 56K Modem   RJ-11

WIRELESS LAN
- Intel® PRO/Wireless 3945ABG LAN connection 802.11a/b/g
- Slide on/off switch
- Security
  - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES

POWER SUPPLY
- Lithium ion battery pack (10.65V, 5700mAh)
- Battery operation: 8 hours***
- Battery charging time: approximately 5 hours off, 6.5 hours on***
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply
- Pop-up, on-screen battery status reporting

POWER MANAGEMENT
- Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES
- Password Security: Supervisor, User
- Security lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS****

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 10.6"(W) x 1.0"/1.8" (H) x 8.3"(D)
- 2.9 lbs.

■ *Full Magnesium Alloy Case*
■ *Shock-mounted Hard Drive*
■ *Ultra-portable 2.9 lbs.*
■ *Long-lasting 8-hour-plus Battery Life*
■ *Wide Area Wireless-ready Design*

INTEGRATED OPTIONS***
- Wide Area Wireless Solutions
  - EVDO
  - HSPDA

ACCESSORIES***
• AC Adapter (3-pin)	CF-AA1623AM
• ComFolio Universal Carrying Case (large capacity)	COMUNIV-P
• ComFolio Universal Jr. Carrying Case	COMUNIVJR-P
• External USB Floppy Drive	CF-VFDU03W
• Lithium Ion Battery Pack	CF-VZSU47U
• Memory Cards	
– 512MB	CF-WMBAW0512U
– 1GB	TBD
• Mini Dock Box Replicator	CF-VEBU05AU
• Large Venue DLP Projector	PT-DW5000U
• Mobile LCD Projector	PT-LB50U

*Windows Vista™ upgrade available for additional cost.

**Hard drive removal should only be attempted by a technician with the proper equipment.

***Battery performance features such as charge time and life span can vary according 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 2005.

****Requires software and activation to enable theft protection.

*****Accessories and Integrated Options may vary depending on your notebook configuration.

Please consult your reseller or Panasonic representative before purchasing.

For more information visit
www.Howard.com or call us at 888.912.3151

intel Centrino®

Panasonic
ideas for life