

Windows®. Life without Walls™. Panasonic recommends Windows 7.

## THE TOUGHBOOK

# U1 ULTRA

- Genuine Windows® 7 Professional<sup>1</sup>
- Sunlight-viewable Up to 6000 Nit in Direct Sunlight
- Optional Integrated Camera, GPS, Barcode and Fingerprint Readers
- Wi-Fi, Bluetooth® and Optional 3G Gobi™ WWAN
- Numeric and QWERTY Keyboard Options
- Twin Hot-swappable Batteries for Continuous Use

IP65

8-FOOT  
DROP TESTING

MIL-STD-810G

The first MIL-STD-810G certified handheld PC<sup>2</sup>

### THE NEXT GENERATION OF HANDHELD POWER WITH WINDOWS® 7 PROFESSIONAL.<sup>1</sup>

The Panasonic Toughbook® U1 Ultra is the newest member of the Toughbook U1 family, and is the clear alternative for legacy Windows® Mobile solutions when you need your mobile workers to do more in the field and need an advanced mobile solution that can work anywhere. The U1 Ultra features a brilliant LED screen capable of up to 6000 nit in direct sunlight and can automatically adjust its screen brightness to fit its environment. Genuine Windows® 7<sup>1</sup> support means an easier to use interface and more off-the-shelf commercial applications than any OS on the planet. Plus, the U1 Ultra features a rugged modular design and a host of integrated options like GPS, Gobi™ mobile broadband, a 2MP camera and barcode readers—there are no limits to productivity. The U1 Ultra is ideally suited for multitasking applications such as SAP, CRM, turn-by-turn directions, drawings, schematics, GEO tagging and paperless forms, to name a few. And for more basic applications and usage environments, the Toughbook U1 Essential is the perfect companion with a combination of value and versatility.



1.800.662.3537

[panasonic.com/toughbook/u1-ultra](http://panasonic.com/toughbook/u1-ultra)

**SOLUTIONS**

**IS OUR MIDDLE NAME**

**TOUGHBOOK**

Panasonic Solutions Company

**DURABILITY**

- MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, salt, fog)<sup>2</sup>
- MIL-STD-461F certified (requires special model)<sup>2</sup>
- IP65 certified sealed all-weather design<sup>2</sup>
- UL1604 class I, division 2, groups ABCD certified model
- CCX Certified v4
- Magnesium alloy chassis encased with ABS and elastomer
- Removable reinforced flex-connect SSD<sup>3</sup>
- Pivoting hand strap
- Reinforced locking port covers

**SOFTWARE**

- Genuine Windows® 7 Professional<sup>1</sup>
- Panasonic Utilities, Recovery DVD

**CPU**

- Intel® Atom™ Processor Z530
  - 1.60GHz
  - 512KB L2 cache
  - 533MHz FSB

**STORAGE & MEMORY**

- 2GB SDRAM (DDR2)<sup>4,5</sup>
- 64GB removable reinforced flex-connect SSD<sup>3,4</sup>

**DISPLAY**

- 5.6" widescreen WSVGA touchscreen LED 1024 x 600
- TransfectivePlus sunlight-viewable display
  - 2-6000 nit (depending on lighting conditions and settings)<sup>6</sup>
  - AR, AG and circular polarizer
  - Ambient light sensor
- Intel® SCH (GMA 500 video controller) max. 256MB UMA VRAM<sup>7</sup>
- External video support up to 1280 x 768 at 16 million colors

**AUDIO**

- Intel® high-definition audio compliant
- Integrated speaker
- Keyboard volume and mute controls

**KEYBOARD & INPUT**

- Touchscreen
- Integrated stylus holder (x 2)
- Backlit 61-key with Windows® key and keyboard lock
- Optional backlit 29-key numeric keypad with large buttons including navigation, Windows® and keyboard lock buttons
- Zoom (in/out) and scroll (up/down) buttons
- 4 user-defined programmable buttons

**EXPANSION SLOTS**

- SD card (SDHC)
- Optional magnetic stripe reader (with mini-dock)
- Optional SmartCard reader (with mini-dock)

**INTERFACE**

- Docking connector
  - Headphones/speaker
  - Microphone/line in
  - USB 2.0 (x 1)
  - Optional Ethernet (RJ-45)
  - Optional serial
- |                  |                  |
|------------------|------------------|
| Dedicated 19-pin | Mini-jack stereo |
| Mini-jack stereo | Mini-jack stereo |
| 4-pin            | 4-pin            |
| With mini-dock   | With mini-dock   |

**WIRELESS**

- Optional integrated Gobi™2000 3G mobile broadband
- Intel® Wireless Wi-Fi Link 5100 802.11a/b/g/draft-n
- Bluetooth® v2.1 + EDR (Class 1)
- Security
  - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Slide on/off switch

**POWER SUPPLY**

- Twin hot-swappable Li-Ion battery packs (7.2V, 2900mAh each)
- Battery operation: 9 hours<sup>8</sup>
- Battery charging time: 5.5 hours off, 5.5 hours on<sup>8</sup>
- AC Adapter: AC 100V-240V 50/60Hz

**POWER MANAGEMENT SECURITY FEATURES**

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS
- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slots (x 2)
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>9</sup>
- Optional fingerprint reader
- Optional SmartCard reader (with mini-dock)

**INTEGRATED FEATURES**

- Package 1: Base model
  - Package 2: Camera
  - Package 3: Gobi2000, barcode reader
  - Package 4: Gobi2000, camera
  - Package 5: Gobi2000, camera, GPS
  - Package 6: Gobi2000, camera, GPS, dual pass, barcode reader
- Camera = 2MP camera with auto focus and dual LED light  
 Barcode Reader = Choice of 1D laser or 2D imager (1D and 2D capable)  
 GPS = GPS receiver (DGPS enabled)  
 Dual Pass = Dual pass-through connectors (for external antenna)

**WARRANTY DIMENSIONS & WEIGHT**

- 3-year limited warranty, parts and labor
- 5.9"(L) x 7.2"(W) x 2.2"(H)
- 2.3 lbs. (with strap and both batteries)

1.800.662.3537 / [panasonic.com/toughbook/U1-Ultra](http://panasonic.com/toughbook/U1-Ultra)

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

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\*Shown with optional numeric keypad. Screen image is for demonstration purposes only.

**INTEGRATED OPTIONS<sup>10</sup>**

- Numeric keypad with large buttons including navigation
- Fingerprint reader

**ACCESSORIES<sup>10</sup>**

- AC Adapter (3-prong) CF-AA1633AM
- Lithium Ion Battery Pack CF-VZSU53W
- 4-Bay Battery Charger CF-VCBU11U
- LIND Car Adapter 120W CF-LNDDC120
- LIND Car Adapter 120W Mounting Bracket CF-LNDBRK120
- LIND Car/AC Adapter 90W (with USB port) CF-LNDAACDC90
- LIND Car Adapter 90W MIL-STD CF-LNBMLDC90
- LIND Car Adapter 80W CF-LNDDC80
- LIND Shutdown Timer CF-LNDLPT
- InfoCase U1 Holster TBCU1HSTR-P
- InfoCase U1 Harness TBCU1HRNS-P
- InfoCase U1 Harness Clear Cover TBCU1CLRCVR-P
- InfoCase U1 Strap TBCU1MSTP-P
- InfoCase U1/H1 Battery Pouch TBCU1BPC-H-P
- External USB Combo Drive CF-VDRRT3U
- Desktop Cradle/Spare 2-Bay Battery Charger CF-VEBU11BU
- Mag Stripe Reader Mini-dock CF-VCRU11U
- Serial/LAN/SmartCard Mini-dock CF-VEBU12U
- Serial/LAN/USB Micro-dock CF-MPU11UTT
- Personal Identification Mini-dock (PIMD)<sup>11</sup> Project Driven
- Havis Vehicle Dock
  - no pass-through DS-PAN-301
  - dual pass-through DS-PAN-301-2
  - no electronics DS-PAN-302
- Touchscreen Replacement Stylus CF-VNP003U
- Tether CF-VNT002U
- 5.6" LCD Protector Film CF-VPF12U

Please consult your reseller or Panasonic representative before purchasing.

<sup>1</sup>A full set of Windows XP drivers are available at [panasonic.com/toughbook/support](http://panasonic.com/toughbook/support).

<sup>2</sup>Tested by a national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

<sup>3</sup>SSD should only be removed by a technician with the proper equipment.

<sup>4</sup>1GB = 1,000,000,000 bytes.

<sup>5</sup>Total usable memory will be less depending upon actual system configuration.

<sup>6</sup>3800 nit without ambient light assistance. Up to 6000 nit in clear sunny conditions under direct sunlight.

<sup>7</sup>Max with standard RAM. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM.

<sup>8</sup>Battery performance features such as charge time and life span vary based on the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including brightness, applications, features, power management, battery conditioning and other customer preferences. Battery test results from MobileMark 2005.

<sup>9</sup>Requires software and activation to enable theft protection.

<sup>10</sup>Accessories and Integrated Options may vary depending on your configuration.

<sup>11</sup>PIMD includes an OCR (3 track MRZ) + RFID reader (ISO 15693, 14443 Type A/B) + fingerprint reader (FIPS 201).