



TOUGHBOOK 54

- Windows 10 Pro
- 14" HD (768p) and FHD (1080p) Displays
- Available Daylight-readable 1000 Nit Gloved Multi Touch Display
- Desktop Class Performance with Available Discrete Graphics and Dual Fans
- The World's Lightest 14" Semi-rugged Laptop—2 lbs. Lighter than the Competition
- MIL-STD-810G and IP51 Certified Magnesium Alloy Design with Built-in Handle
- Available 2nd Drive, Hot-swappable 2nd Battery, 2nd LAN, Serial, DVD, Antenna Pass-through, SmartCard Readers and More

IP51

**3-FOOT
DROP RATING**

**MIL-STD-
810G**

ONE OF THE WORLD'S LIGHTEST AND THINNEST SEMI-RUGGED LAPTOP IN ITS CLASS.

The new Toughbook 54 laptop from Panasonic uses the latest advances to create a laptop 2 lbs. lighter and 0.5" thinner than the competition. It features a spill-resistant, full magnesium alloy design, hard drive heater, backlit keyboard and is available in various models to suit every need. The Toughbook 54 has a wide range of integrated options, such as dedicated GPS, 4G LTE mobile broadband with satellite GPS, antenna pass-through, and insertable and contactless SmartCard readers. It is the only semi-rugged laptop that offers an optional 2nd battery allowing hot-swap battery replacement without the need to shut down or hibernate. It is also the only laptop in its class to offer dual hard drives, another feature that makes the Toughbook 54 one of the most versatile and advanced semi-rugged notebooks on the market.

TOUGHBOOK 54

Panasonic recommends Windows 10 Pro.

SOFTWARE	<ul style="list-style-type: none"> Windows 10 Pro Panasonic Utilities (including Dashboard), Recovery Partition
DURABILITY	<ul style="list-style-type: none"> MIL-STD-810G certified (3' drop, shock, vibration, sand, dust, altitude, high/low temperature, temperature shock, humidity) IP51 certified Spill-resistant keyboard Magnesium alloy case with handle Hard drive heater Shock-mounted flex-connect hard drive with quick-release Pre-installed replaceable screen film (Gloved Multi Touch model)
CPU	<ul style="list-style-type: none"> Intel® Core™ i5-6300U vPro™ Processor <ul style="list-style-type: none"> ~ 2.4GHz with Turbo Boost up to 3.0GHz ~ 3MB cache
STORAGE & MEMORY	<ul style="list-style-type: none"> Memory (RAM) <ul style="list-style-type: none"> ~ 4GB, 8GB or SDRAM (DDR3L-1600MHz) Primary Hard Drive (quick-release) <ul style="list-style-type: none"> ~ 500GB HDD 7200rpm^{2,3} ~ Optional 128GB SSD, 256GB SSD, 1TB 7200rpm HDD^{2,3} ~ Hard drive heater ~ Shock-mounted with flex-connect Optional Second Drive (onboard) <ul style="list-style-type: none"> ~ 256GB SSD^{2,3} ~ Hard drive heater ~ Trained technician removable
DISPLAY	<ul style="list-style-type: none"> Display Size and Resolution <ul style="list-style-type: none"> ~ Gloved Multi Touch model: 14.0" FHD 1920 x 1080 (1000 nit) ~ Non Touch model: 14.0" HD 1366 x 768 IPS with direct bonding on FHD displays Anti-reflective and anti-glare screen treatments Graphics <ul style="list-style-type: none"> ~ Intel® HD Graphics 520 ~ Dual monitor support through HDMI and/or optional VGA ~ Concealed mode (configurable) ~ Optional AMD Firepro™ M5100 available on Touch Model
AUDIO	<ul style="list-style-type: none"> Intel® high-definition audio compliant Integrated speakers Keyboard volume and mute controls
KEYBOARD & INPUT	<ul style="list-style-type: none"> Touch, gestures and optional stylus pen (Gloved Multi Touch model) 2 user-definable keys (A1/A2) Dashboard 87-key with dedicated Windows® key Emissive backlit keyboard Electrostatic touchpad with multi touch support
DVD DRIVE	<ul style="list-style-type: none"> Optional DVD Super MULTI Drive⁴
CAMERAS	<ul style="list-style-type: none"> Optional 1080P webcam with mic and camera on/off indicator⁴
EXPANSION SLOTS	<ul style="list-style-type: none"> Optional PC card Type II⁴ SD card (SDXC UHS-II)
INTERFACE	<ul style="list-style-type: none"> Docking Connector 24-pin HDMI Type A Optional VGA D-sub 15-pin Headphones/Mic Mini-jack stereo Optional Serial (True) D-sub 9-pin USB 3.0 (x 3) Type A Optional USB 2.0 (x 1) Type A⁵ Optional Rugged Fischer® USB (Core Series) 5-pin⁵ 10/100/1000 Ethernet RJ-45 Optional 10/100/1000 2nd LAN (Ethernet) RJ-45⁵
WIRELESS	<ul style="list-style-type: none"> Optional integrated 4G LTE multi carrier mobile broadband with satellite GPS Optional dedicated GPS (u-blox NEO M8N)³ Optional dual high-gain antenna pass-through Optional contactless SmartCard/NFC reader^{1,4} Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac Intel® Wireless Display (WiDi) Bluetooth® v4.1 + EDR (Class 1) (Version 4.0 for Windows 7) Security <ul style="list-style-type: none"> ~ 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	<ul style="list-style-type: none"> Li-Ion battery pack⁷: <ul style="list-style-type: none"> ~ Long life battery (standard on other models): 11.1V, typical 4200mAh, min. 4080mAh ~ Media bay 2nd battery⁴: 11.1V, typical 2960mAh, min. 2860mAh Battery operation⁷: <ul style="list-style-type: none"> ~ 11 hours (18 hours with opt. 2nd battery) Hot-swap with optional media bay 2nd battery Battery charging time⁷: 2.5 hours (each battery) AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply Battery status and battery hot-swap LED indicators

POWER MANAGEMENT	<ul style="list-style-type: none"> Suspend/Resume Function, Hibernation, Standby, ACPI BIOS
SECURITY FEATURES	<ul style="list-style-type: none"> Password Security: Supervisor, User, Hard Disk Lock Kensington cable lock slot Trusted platform module (TPM) security chip v.1.2 Computrace® theft protection agent in BIOS⁵ Optional fingerprint reader⁴ Optional insertable SmartCard reader (bottom) Optional 13.56MHz contactless SmartCard/NFC reader^{1,4} <ul style="list-style-type: none"> ~ ISO 14443 A/B compliant
WARRANTY	<ul style="list-style-type: none"> 3-year limited warranty, parts and labor
DIMENSIONS & WEIGHT	<ul style="list-style-type: none"> 10.7"(L) x 13.6"(W) x 1.2"(H)⁹ 4.4 lbs. (Non Touch model) 4.6 lbs. (Gloved Multi Touch models)
INTEGRATED OPTIONS¹⁰	<ul style="list-style-type: none"> 4G LTE multi carrier mobile broadband with satellite GPS Dual antenna pass-through⁴ Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB¹ PC Card¹ or DVD drive or media bay 2nd battery Contactless SmartCard/NFC or fingerprint readers⁴ Insertable SmartCard reader (bottom) Serial VGA 1080p webcam and mic Primary hard drive (quick-release): <ul style="list-style-type: none"> ~ 128GB SSD, 256GB SSD and 1TB 7200rpm HDD with heaters 2nd hard drive (onboard)¹: <ul style="list-style-type: none"> ~ 256GB SSD with heaters
SELECT ACCESSORIES¹⁰	<ul style="list-style-type: none"> AC Adapter (3-prong) CF-AA5713AM Long Life Battery Pack CF-VZSU0PW Media Bay 2nd Battery Pack⁴ CF-VZSU0KW Battery Charger CF-VCB2B2W LIND Car Adapter 120W CF-LNDDC120 Memory Card 4GB CF-WMBA1304G Memory Card 8GB CF-WMBA1308G Desktop Dock CF-VEB541U Gloved Multi Touch Stylus FZ-VNPM11U 14.0" Gloved Multi Touch LCD Protective Film CF-VPF29U
<p>Please consult your reseller or Panasonic representative before purchasing.</p> <p>¹ Delayed availability on select options (2nd LAN, rugged Fischer USB, Contactless SmartCard/NFC and PC Card).</p> <p>² Total usable memory will be less depending upon actual system configuration.</p> <p>³ 1GB = 1,000,000,000 bytes.</p> <p>⁴ DVD, PC Card and Media Bay 2nd Battery are mutually exclusive.</p> <p>⁵ Dedicated GPS (u-blox), 4th USB (2.0), rugged Fischer USB and 2nd LAN are mutually exclusive.</p> <p>⁶ Contactless SmartCard/NFC and fingerprint readers are mutually exclusive.</p> <p>⁷ Approximate time. 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 2007.</p> <p>⁸ Requires software and activation to enable theft protection.</p> <p>⁹ 1.5" height on models with the following integrated options: insertable SmartCard (bottom), 2nd LAN, 4th USB (2.0), rugged Fischer USB, VGA and Serial.</p> <p>¹⁰ Accessories and Integrated Options may vary depending on your notebook configuration. Not all items are currently available. Visit Panasonic website for more accessories and details.</p>	



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