Don't leave home without it!

Take it to class, on business trips, or vacation. Tuck it into a handbag or briefcase. The new Howard™ 1221 mid-sized, portable notebook is thin and light enough to carry just about anywhere you go. With its 12.1" widescreen, graphic-enhancing LCD, and Intel's GMA 4500HD graphics package, the 1221 is big performer. This highly-tested Microsoft® Certified system features the latest Intel® Core™ 2 Duo processors, high-speed wireless connectivity, a webcam, Biometric security, and numerous interfaces for connecting your favorite accessories, including ExpressCard and IEEE 1394. Always on the go? No problem—the Howard™ 1221 travels as well as you do.

Howard Technology Solutions recommends genuine Microsoft® Windows® 7.

The Howard Advantage!

With every Howard product purchase, you receive the following for **FREE**!

✓ Phone and web tech support for the LIFE of your system

✓ 100% US-based, English-speaking customer support 24/7/365

✓ Phone hold times < 1 minute

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Feature	Benefits
Biometric Security	Convenient fingerprint reader provides an additional layer of security to your notebook
Microsoft® Certified	Highly tested system optimized for Microsoft Windows® XP and Microsoft® Windows Vista®
12.1" display	Compact WXGA 12.1" graphic-enhancing LCD with max resolution: 1280 x 800
Centrino® 2 Wireless	High-speed connectivity with 802.11n wireless technology.
Play & burn CDs/DVDs	The 1221 includes a DVD-rewritable optical drive for burning your desired media.
Webcam	The included 1.3 mega pixel webcam can be used for numerous multimedia applications.

Fingerprint Reader

HOWARD™
TECHNOLOGY SOLUTIONS

*Experience the **Howard** advantage.*

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Feature	Specification
Screen Size	12.1 WXGA (1280x800 maximum resolution)
Chipset	Intel® GM45 + ICH-9M
Supported Operating Systems	Microsoft's Windows® XP Professional, Windows® XP Home SP3, Windows Vista® SP1
Supported Processor Families	Intel® Core™ 2 Duo, Socket-P, 45nm
System Memory	Up to 8GB of 800MHz DDR2 (2 slots)
Video	Intel® GMA 4500HD, 128MB video memory (up to >512MB, if Dynamic)
Audio	Integrated 2 channel High Definition audio
Network	Integrated Realtek 10/100 LAN
Optical Drive	Internal DVDRW drive
Internal Ports	Mini-PCI Express x1
External Ports (Rear Panel)	USB x3; audio: Mic in, headphone out; LAN x1 Realtek 10/100; video x1, VGA out; ExpressCard x1; IEEE 1394 x1; built-in fingerprint reader; 4-in-1 card reader; integrated 56K modem V.90/92; integrated 1.3 MP webcam and Kensington Lock Hole
Battery	4-cell, 2200mAh, (2.25 Hour Typical Battery Life) 8-cell, 4400mAh, (5 Hour Typical Battery Life)
Power Supply	Up to 65W, 20V
Dimensions	1.22"(H) x 8.93"(W) x 11.65"(L)
Weight	4.03 lbs (complete system)
Certifications	WHQL: Vista® Premium; FCC Part 15B, CE
Other Features	Power management: Suspend/Resume function, Hibernation, Standby, ACPI BIOS

FREQUENTLY ASKED QUESTIONS

Q: What is Intel® Core™2 Duo technology?

A: The Intel® Core™ 2 Duo processor is Intel's second-generation mobile dual-core processor designed to deliver breakthrough performance, and great power savings. With an Intel® Centrino® 2 mobile technology-based laptop that has the new Core™2 Duo processor, and 3 or 6MB cache, you can enjoy greater than 20% performance increase when engaging in processor-intensive tasks.

Q: What types of media does the 4-in-1 card reader support?

A: The card reader supports Multimedia Card (MMC), Memory Stick, Memory Stick Pro, and Secure Digital (SD).

Q: What is the average battery life for the 1221?

A: The 4-cell battery lasts approximately 2.25 hours and the 8-cell battery lasts approximately 5.0 hours under normal usage.

Q: What is an ExpressCard slot?

A: ExpressCard is a new hardware standard replacing PC cards (also known as PCMICA or Card Bus cards). ExpressCards allow the support of PCI Express and USB 2.0 speeds through the ExpressCard slot. The cards are hot-pluggable similar to USB 2.0, and come in either 34mm or 54mm sizes.

Q: Whom should I contact for support?

A: Call Howard Technology Solutions for world-class support and service if there are any questions about the notebook. Customer support is available:
Online at http://www.howardcomputers.com/support,
By phone at 1.888.323.3151,
Via email at tech@howardcomputers.com, or
Through conventional mail at Howard Technology Solutions, 36 Howard Drive, Ellisville Mississippi, 39437.

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Product Upgrades

Enhance your purchase with any or all of the following products or services. And feel free to contact us toll free at 888-912-3151 to discuss any questions or your specific needs!

- USB port replicator
- On-site service
- Smart card reader
- DVD-RW with DVD software
- Jazz/zip drives
- External USB keyboard and mouse

Warranty & Support

- Howard Technology Solutions' standard warranties apply.
- **FREE** customer and technical support to purchaser via telephone or web for the life of the system.
- Expedite your troubleshooting process by participating in our Howard Technical Partnership Program (HTPP) which certifies your staff to perform basic hardware service and support. Contact us today for more information.

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