# Feature-Rich and a Real Deal.

The 1637 is Howard's solution for a low-cost, high-performance notebook. It uses an Intel® 965GM chipset that has support for all of the latest Intel® processors, as well as for 802.11AGN and Bluetooth wireless options. Along with Centrino® components, it includes a webcam and, an 8X DVDRW dual-layer drive for playing and burning CDs and DVDs. The 1637 also has numerous interfaces for connecting your favorite accessories, along with Intel's X3100 enhanced graphics package and a 15.4" monitor for superior image quality. Enjoy a feature-rich notebook and a real deal at the same time!

## Howard Computers recommends genuine Microsoft® Windows® XP Professional.

## 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
- ✓ Reliable disaster recovery software

Intel®, Intel® Core™ 2 Duo, and the Intel® Core™ 2 Duo logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

| Feature | Benefits |
|---|---|
| Price point | Low price point with all of the latest features of a mainstream notebook. |
| CPU support | Support for the latest Core 2 Duo Processors (Socket-P) |
| Interfaces | Support for many outputs such as Flash Media, S-Video, Front Audio, USB 2.0, IEEE 1394, and VGA. Supports 802.11n. |
| Microsoft certified | Highly tested system optimized for Microsoft Windows XP Professional and Microsoft Windows Vista |
| Enhanced graphics | Powerful Intel X3100 Graphics package for the latest DirectX 10 applications. |
| Wireless connectivity | High-speed connectivity with 802.11n Wireless Technology. |
| Thin and light | Weighing in at less than 6 pounds, the 1637 is ideal for users on the go. |
| Extended battery life | Up to 4 hours of usage on the included 6-cell battery. |
| Webcam | The included 1.3 mega pixel webcam can be used for numerous multimedia applications. |
| Play & burn CDs/DVDs | The 1637 comes included with a DVD-rewritable drive for burning your desired media. |
| Network ready | Includes integrated Realtek gigabit NIC. |
| Includes LifeGuard by Howard | Restore your system to its original factory condition, a system generated backup, or a backup you've manually created in just minutes. |

# HOWARD™
## TECHNOLOGY SOLUTIONS

## Innovation **at work for you.**

| Feature | Specification |
|---|---|
| Chipset | Intel® 965GM Express + ICH8-M |
| Operating System | Microsoft® Windows® XP Professional, Microsoft® Windows® Home Edition, or Microsoft® Windows® Vista™ |
| Processor Options | Intel® Core™ 2 Duo (Socket P)<br>Intel® Celeron M (65nm based only) |
| System Memory | SODIMM, DDRII x 2, 533/677 MHz up to 4GB |
| Cache Memory | 2MB L2 Cache or 4MB L2 Cache (Core 2 Duo processors) |
| Hard Drive | 2.5"  SATA 60, 80, 100, 120, 160, 250GB |
| Video | Intel® X3100 Graphics |
| Audio | Realtek High Defiintion Audio ALC888, Sound-Blaster compatible x 2 1.5W speakers |
| Monitor | WXGA 15.4" Graphic-Enhancing LCD (Max: 1280x800) with external VGA |
| Optical Drive | 8X DVDRW Dual Layer Drive |
| Modem | 56K V92 Fax/Modem |
| Network | Realtek Integrated 10/100/1000 Gigabit NIC Intel® 3945ABG 802.11 Internal wireless card included (Optional- Intel® 4965 AGN 802.11 Internal wireless card |
| Ports | USB 2.0: 4, VGA, RJ45, IEEE 1394:1, 4-in-1 Card Reader, S-Video x1, Card Bus x1, Mic in, Headphone out, Array Mic, DC-in x1, 1.3MP Webcam, Kensington Lock Hole x1 |
| Power Supply | 65W AC Adapter 19V DC, 3.65 A |
| Battery | 57.72 WHr 6 cell Li-ion Battery |
| Dimensions | 1.14" (H) x 10.3" (W) x 14.0" (L), 6.0 pounds |

**Q:** What is Intel Core 2 Duo technology?
**A:** Intel Core 2 Duo technology puts the power of two cutting edge processors in the space of one. As a result, this space saving design gives an amazing power and performance increase. This design uses relatively the same amount of power as a single core processor giving your system an extended battery life while producing more power.

**Q:** What is WXGA?
**A:** The 15.4" WXGA is designed in a widescreen format. This format provides a 16:9 ratio picture that allows the user to view movies in the widescreen format providing a more cinematic experience. It also enhances usage by providing more desktop real-estate to help increase productivity..

**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 LifeGuard recovery solution?
**A:** Howard LifeGuard recovery solution is a smart recovery management system. If your PC becomes unstable or your operating system is damaged, then the Howard LifeGuard recovery system can restore your system to factory condition or a backup you've created. The LifeGuard system can be used by pressing F4 at the PC's startup screen.

**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, through phone at 1.888.323.3151, by email at tech@howardcomputers.com or by traditional mail at Howard Technology Solutions, 36 Howard Drive, Ellisville Mississippi, 39437.

## Experience the Howard advantage.

### 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.

## HOWARD™
### TECHNOLOGY SOLUTIONS

*Innovation* **at work for you.**