

## Newegg Guide to Microsoft High Definition Technology

Microsoft High Definition Technology improves mouse performance and enhances user comfort. Thanks to Microsoft High Definition Technology, mice become more precise, more responsive, deliver smoother tracking than ever before, and operate better on a greater variety of surfaces.

Microsoft High Definition Technology is divided up into the High Definition Laser and High Definition Optical Technologies, but both utilize the same key features.



### **1000 DPI and 6000 FPS\***

*DPI (dots per inch) is the number of counts in an inch of movement and FPS (frames per second) is how often the sensor reads the surface. These are measures of how much information the sensor is recording. The more information that is gathered, the more accurately and precisely the surface can be tracked. To detect movement, optical and laser mice use sensors to read the light beam as it is reflected back into the mouse from the tracking surface. Every second, Microsoft's proprietary tracking sensor takes 6000 images, calculates the mouse's precise location, speed and direction at 85 MOPS, and updates the position at a resolution of 1000 DPI.*

### **85 MOPS**

*MOPS (million operations per second) indicate how quickly the information the mouse sensor picks up is calculated and communicated to the PC. Each second, Microsoft's proprietary tracking sensor takes more than 6000 FPS and 1000 DPI, converts the information to digital format and calculates the mouse's precise location, speed and direction of movement at 85 MOPS.*

### **.18 Microns or smaller**

*Microns = the CMOS technology used in chips. Lower Microns = better technology. Microsoft is 2 generations ahead of standard optical and laser mice, therefore using the latest and greatest, cutting edge design. High Definition Optical and Laser mice are .13 or .18 microns, while competitive chips tend to be .35 or higher. The benefits are that the smaller size means it requires less power and physically takes up less space in the mouse.*

### **Microsoft Intelligent Tracking System**

*Microsoft Intelligent Tracking System (MITS) is the proprietary mathematical equation built into our chips that enables smoother tracking over a wider variety of surfaces. It is the brains of the tracking technology that reads the information the sensor is relaying and fills in any holes, so that the traction works even over unique surfaces.*

Microsoft has released four products that utilize High Definition Laser Technology:

**Wireless Laser Desktop 6000**



*Work free from wire hassles with a Comfort Curve Design keyboard. The included wireless mouse lets you navigate with unprecedented, laser-smooth precision.*

**Wireless Notebook Laser Mouse 6000**



*Work in comfort on the go—this notebook mouse offers the unmatched accuracy and control of advanced laser technology. Easily enlarge and edit details with the new Magnifier.*

**Wireless Laser Mouse 6000**



*Enjoy unprecedented precision with a mouse as powerful as it is comfortable to use. Navigate Web pages and documents more quickly, and easily enlarge and edit details.*

**Laser Mouse 6000**



*Experience the difference of powerful laser technology at your fingertips. Laser Mouse 6000 offers superior performance and control along with new software features like Precision Booster and Gaming Toggle to give you the competitive edge. The scroll wheel with detents enables more efficient weapons changing and productivity, and the Magnifier delivers a new way to enlarge and edit detail with just a click.*

Microsoft has also released three products utilizing High Definition Optical Technology:

**Comfort Optical Mouse 3000**



*Scroll through documents and Web pages quicker and easier with this ergonomic, four-button mouse. The new Magnifier lets you easily enlarge and edit details.*

**Wireless Notebook Optical Mouse 4000**



*Plug in the compact receiver when you're ready to work, then snap it into your mouse when you travel, saving hassle and battery life. Easily enlarge and edit details with the new Magnifier and scroll four ways with the innovative 4-Way Scrolling.*

**Wireless Optical Mouse 5000**



*Experience smoother tracking and wireless freedom. Navigate with enhanced precision with this ergonomic High Definition Optical mouse. Easily enlarge and edit detail with the new Magnifier and enjoy more than six months of battery life.*

\*Italicized information thanks to Microsoft.