

HeadMouse® for Portables



Optimized for Laptop Computers

HeadMouse for Portables is specially designed for use with laptop computers and augmentative communication devices. It adapts the proven technology from our flagship

HeadMouse into a form factor that mounts securely and conveniently in applications with flat panel displays. HeadMouse for Portables also offers special power supply features that can ease integration in battery powered or remotely powered environments.

A small Optical Sensor attaches directly to the computer display or augmentative communication device. A separate Interface Unit performs power conversion and signal processing, and can optionally supply additional power for a laptop computer. HeadMouse for Portables retains all of the interface flexibility of our standard HeadMouse and is powered either from AC wall outlets or from an external battery. A battery pack and adapter cables for powered wheelchairs are offered as options.

The Optical Sensor is available in two sizes; a standard size which is optimal for rear mounting, and a miniature size which is optimal for front mounting.



Standard



Miniature

HeadMouse®

Head-Controlled Pointing for People with Disabilities



HeadMouse replaces a standard desktop computer mouse for people who cannot use their hands. It operates from the top of a computer monitor, and measures the head movements of the computer user. HeadMouse is a *wireless* optical sensor that employs infrared light to track a small, disposable target that is placed on the user's forehead or glasses. HeadMouse provides a wide field-of-view and sufficient precision to support applications such as drawing and computer aided design.

Selections are performed by positioning the mouse pointer and dwelling for a selectable period of time, and Dragger™ software provides efficient dwell-based access to all of the common functions of a two-button mouse. Alternately, selections can be performed with an adaptive switch, such as our Sip/Puff Switch, or through use of speech recognition. A Remote Switch Interface is available for wireless transfer of adaptive switch inputs from a wheelchair to the computer.

HeadMouse connects to the computer using standard ports and mouse drivers. All HeadMouse units can completely emulate the RS-232 serial Microsoft Mouse, and Smart Cables provide easy interface to IBM PS/2 style ports, USB ports, and Apple Desktop Bus ports. A mouse pass-through mode eases interactions between teachers and students.

When used with an on-screen keyboard such as SofType™, HeadMouse provides head-controlled access to all of the normal functions of both keyboard and mouse, and to standard personal computer applications including Internet access.

Excellent Companion for Augmentative Communication Devices



Assistive Technology Inc



Words+



DynaVox Systems



Prentke Romich

HeadMouse for Portables provides easy access to augmentative communication devices for people with limited or no use of their hands. HeadMouse integrates conveniently with the augmentative communication systems from a variety of suppliers, including TuffTalker from Words+, Gemini from Assistive Technology Inc, DynaVox and DynaMyte from DynaVox Systems, and Vanguard, Pathfinder and Vantage from Prentke Romich.



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Features

All Systems:

- ◆ *Wireless Operation*
- ◆ *No Cumbersome Head Mounted Apparatus*
- ◆ *Pixel Precise Pointing, CAD Ready*
- ◆ *Operates in Conjunction With or Replaces Standard Desktop Mouse*

Portable Systems:

- ◆ *Optimized for Use With Portable Computers and Augmentative Communication Devices*
- ◆ *Indoor and Outdoor Operation*
- ◆ *Can be Directly Powered from Wheelchair Batteries*
- ◆ *Integrated Power Supply for Laptop Computers*



HeadMouse Specifications

All Systems:

Operating Wave Band: Near Infrared
Computer Interfaces:**
· Serial Port, RS-232C, DB-9 Connector
· IBM PS/2
· USB (Universal Serial Bus)
· ADB (Apple Desktop Bus)
Wired Switch Interface: 1/8 inch (3.5mm) Microphone Jacks
Standard Target: Paper Thin, 0.25 inch Diameter, Adhesive Backing
Secondary Port: Interface for Using the Computer with a Desktop Mouse, Serial Port Connection. (Complimentary Serial Mouse Included)

Desktop:

HeadMouse Size: 7.3 x 5.7 x 1.5 inches
Operating Range: 4 to 60 inches
Operating Field-of-View: 55° in Azimuth & Elevation
Measurement Resolution: 0.004 inch Typical*
Power: 120 Volts AC
(International Power Options Available)

Portable:

Sensor Size: *Standard* - 2.5 x 0.75 x 5 inches
Miniature - 2.5 x 0.75 x 3.3 inches
Interface Size: 7.3 x 5.7 x 1.5 inches
Operating Range: 10 to 60 inches
Operating Field-of-View: 50° in Azimuth & Elevation
Measurement Resolution: 0.01 Inch Typical*
Input Power: 12 or 24 Volts DC, Designed for Direct Connection to a Battery.
(Power Cables Available).
Supplied with 120 VAC Wall Transformer.
(International Power Options Available)
Power Output: Conditioned 12 Volts (2.5 amps max.) for Use with Laptop Power Adapters.

*Measurement parameters are RMS values and are quoted for a 1/4 inch target at a 32 inch range (desktop) or 24 inch range (portable) under normal florescent room lights. Values will vary with operating range, and to some extent with ambient illumination and target position in the sensor field-of-view.

**The default communication link, which is a standard RS-232 serial port, can be used by most IBM PCs and compatibles. Smart Cables are available for easy interface to PS/2 style mouse ports, USB ports and Apple ADB ports.

HeadMouse is a registered trademark of Origin Instruments Corporation. SofType and Dragger are trademarks of Origin Instruments Corporation.



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