



HeadMouse[®] for Portables

Excellent Companion for the Vanguard



HeadMouse[®] for Portables

- **Optimized for dedicated augmentative communication devices**
- **Indoor and outdoor operation**
- **Can be powered directly from a wheelchair battery**
- **Wireless operation**

HeadMouse for Portables provides easy access to the Vanguard for people with limited or no use of their hands. HeadMouse for Portables is a *wireless* optical tracking system that includes an Optical Sensor and an Interface unit. The sensor uses infrared light to track a small reflective dot that is placed on the user's forehead or glasses. When the HeadMouse user moves his head, the mouse pointer on the screen will also move.

The Optical Sensor is manufactured in two sizes, standard and miniature. The miniature optical sensor is ideal for mounting to the Vanguard from Prentke Romich. The Interface Unit performs power conversion for the HeadMouse for Portables. Power is supplied either from AC wall outlets or directly from a battery.

A battery pack and adapter cables for powered wheelchairs are offered as options from Origin Instruments. Additional information on using HeadMouse with Vanguard is also available from Origin Instruments.



HeadMouse Specifications

(Portable Model)

HeadMouse Sensor Size:	2.5 x 0.75 x 5 inches - Standard 2.5 x 0.75 x 3.3 inches - Miniature
Interface/Power Adapter Size:	7.3 x 5.7 x 1.5 inches
Operating Range:	4 to 60 inches
Operating Field-of-View:	50° in Azimuth and Elevation
Measurement Resolution:	0.01 inch Typical*
Operating Wave Band:	Near Infrared
Standard Target:	Paper Thin, 0.25 inch Diameter, with Adhesive Backing
Computer Interfaces**:	Serial Port, RS-232C, DB-9 Connector IBM PS/2 USB (Universal Serial Bus) ADB (Apple Desktop Bus)
Switch Interface:	1/8 inch (3.5 mm) Microphone Jacks
Secondary Port:	Interface for Using the Computer with a Desktop Mouse. Serial Port Mouse. (Complimentary Serial Mouse Included)
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 Available Laptop Power Adapters.

* Measurement parameters are RMS values and are quoted for a ¼ inch target at 24 inches range 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. Origin Instruments Smart Cables are available for communicating with personal computers from Apple Macintosh and with workstations from various manufacturers. These Smart Cables have embedded microprocessors that convert the HeadMouse data format to the Apple Desktop Bus, USB or IBM PS/2 mouse formats.

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Origin Instruments Corporation
854 Greenview Drive
Grand Prairie, TX 75050-2438 USA
Tel: 972-606-8740, Fax: 972-606-8741
Web: www.orin.com Email: support@orin.com