



HeadMouse[®] for Portables

7 Amp-Hour Battery Pack

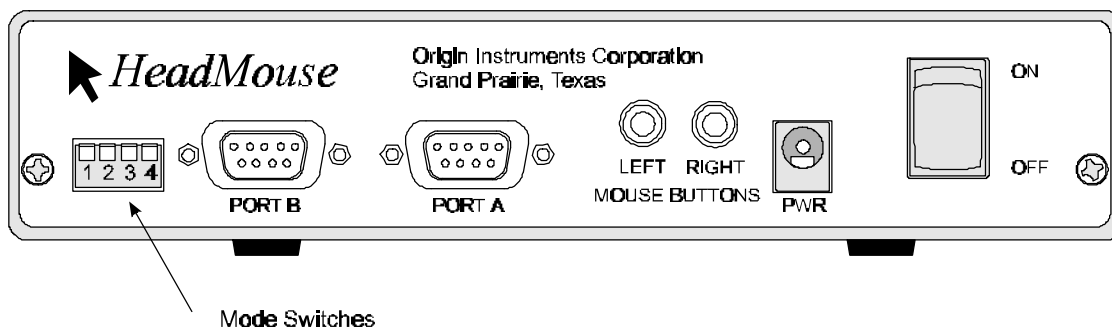
The Battery Pack is packaged in a soft nylon case that includes three pouches:

The main pouch contains a sealed lead-acid battery that provides 12 volts at seven ampere-hours of capacity. This is sufficient to operate the HeadMouse for Portables continuously for up to 10 hours. The battery is protected with a 5-amp ATO style fuse for safety. If the fuse should ever blow, a replacement can be purchased at any automobile parts supply store.

The middle-sized front-left pouch contains a lightweight, high current 12 V switching power supply for back up, so that one can always operate the HeadMouse (and the laptop computer) from an AC mains outlet if the Battery Pack should ever become discharged. Carrying this back-up power supply is optional, and you may wish to remove it so as to minimize the weight of the Battery Pack. Please note that the back-up power supply operates entirely independently from the battery. To use it, you should unplug the Battery Pack from the power input on the HeadMouse Interface Unit, plug the cable from the back-up supply into the power input on the Interface Unit, and then plug the back-up power supply into a wall outlet using the included cord. The back-up power supply has general-purpose power input specifications and can operate from any AC mains outlet in the world with an appropriate IEC-style power cord.

The small front-right pouch contains a removable shoulder strap and a convenient storage place for the cord that powers the HeadMouse. To use the Battery Pack, simply unzip the small pouch, uncoil the power output cable, and plug the cable into the “PWR” input on the back of the HeadMouse Interface Unit.

When using the Battery Pack, Origin Instruments recommends that the switches at the far left rear panel of the HeadMouse Interface Unit be set for #3 and #4 both Up (On). This will select an automatic power mode that enables smart fault detection and prevents accidental deep discharge of the battery. Always cycle the HeadMouse power off and on after you change the switch settings, because the HeadMouse reads the switches only at power-up.



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The battery charger is a separate unit with significant weight, so it is not recommended that the charger be carried with the Battery Pack unless remote recharging is desired. To use the charger, simply unplug the Battery Pack cable from the HeadMouse and plug it into the cable on the battery charger. Then plug the charger into any wall outlet. There are several battery charger styles that may be shipped with your battery pack. However, each charger will indicate its operational state as either charging (also called fast charge) or trickle (also called float) charging with one or more indicator lights. The charger is fully automatic and will not overcharge the battery. The charger automatically enters a trickle mode after the charge is complete. In trickle mode, the charger will sustain the battery's full state of charge indefinitely. An overnight charge will almost always be sufficient to replenish the Battery Pack, but more than 15 hours of charging may be required to fully recover from a condition of deep discharge. It is not required to fully discharge lead-acid batteries before recharging them; therefore, they may be connected to the charger at any time.

The sealed lead-acid battery included in the pack can be used in any orientation. Special provisions are not required to ship the battery pack by surface or air transportation. If the automatic power mode of the Portable HeadMouse is used, then the battery can be expected to have a service life of between 200 and 1000 charge/discharge cycles. If the battery is repeatedly deep discharged its capacity to accept a charge will be permanently reduced. A battery is deep discharged when its terminal voltage has dropped below its fully discharged voltage (10.5-volts in the case of a 12-volt battery) and it remains connected to a load for several hours thereafter. If the battery is left in this state for one or more days, it will be damaged. The automatic power mode of the Portable HeadMouse will prevent the battery from being deep discharged.

The battery case is rugged and made of either ABS plastic or styrene. When attached to a mobile platform, the battery pack should be secured so that it does not swing free. The battery may be damaged if it collides with another object and the weight shift may cause unexpected movement to whatever the battery pack is attached.

Specifications:		
Battery Pack	Size(approximate):	10 x 5 x 6 inches
	Weight(approximate):	6.25 pounds (excluding Back-up Power Supply and charger)
	Voltage:	12-volts
	Capacity:	7 ampere-hours
	Chemistry:	Sealed Lead-Acid
	Fuse	5 ampere, ATO style
	Cord length(approximate):	72 inches
Charger	Case:	Black nylon with adjustable strap
	Size(approximate):	2.75 x 2.75 x 3.75 inches
Back-up Power Supply	Weight(approximate):	1.4 pounds
	Size(approximate):	4.3 x 2.3 x 1.4 inches
	Weight(approximate):	One pound (includes AC mains cord)
	Output Voltage:	12-volts
	Output Current:	2.5 amperes
	Input Voltage:	90- to 240-volts AC, 50- to 60-cycles



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