Tetra/Mouse

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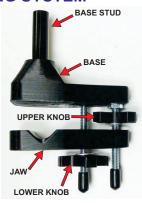
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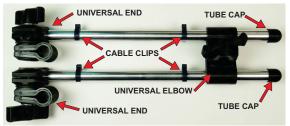
SET UP ARTICULATED ARM MOUNTING SYSTEM

If you ordered TetraMouse Mounting System with your TetraMouse, follow these instructions for mounting. If you will be using another mounting system please refer to the documentation for that system. The size 1/4"-20tpi threaded stud that protrudes from the back of the TetraMouse is used for mounting. If using the TetraMouse Mounting System, the Mouse Mounting Stud is tightened firmly onto the threaded stud on the TetraMouse.

The Base Clamp mounts to a flat surface or a tubular object. Either Universal End of the Articulated Arm is then attached to the Base Stud. The TetraMouse is then attached to the other Universal End of the Articulated Arm using the Mouse Mounting Stud.



BASE CLAMP





TETRAMOUSE

ARTICULATED ARM

MOUNTING THE TETRAMOUSE

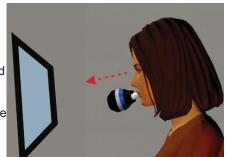
These instructions use the terminology for the various parts as shown in the illustrations on the previous page. These terms are capitalized in the following instructions. "Up" and "Down" references are relative to the image of the Base Clamp on the previous page.

The Base Clamp is mounted to a desktop or tubular frame of bed, wheelchair, etc., using the Lower Knob and Upper Knob to tighten and hold the clamp securely. To mount to a desktop or tubular object, first turn the Upper Knob up until it is loosely against the nut at the bottom of the Clamp Base, then turn the Lower Knob until the Jaw can be moved down far enough to accommodate the thickness of the mounting surface or diameter of the tubular object. Next, turn the Lower Knob back up to bring the Jaw up against the mounting surface or tubular object and tighten it firmly until the Base Clamp is held to the surface. Then turn the Upper Knob to bring it down onto the top of the Jaw and tighten it firmly.

Loosen the Universal Ends and Universal Elbow to allow mounting the arm to the Base Stud on one end, and mounting the TetraMouse with the Mouse Mounting Stud on the other end.

POSITIONING THE TETRAMOUSE

Loosen the knobs on the Universal Ends and Universal Elbow on the Articulated Arm just enough to allow repositioning of the TetraMouse, but tight enough to stay where it is put. When the TetraMouse is in the desired position and the user finds it comfortable to operate without straining or reaching, the joints may be tightened more firmly to better hold it in position.



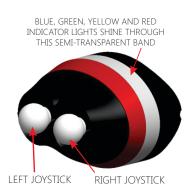
The TetraMouse should ideally be positioned as in the above illustration

(mounting arm not shown). The user should be in a comfortable position looking straight ahead at the computer screen. The TetraMouse is then brought into position so that the lips or chin are in contact with the knobs on the joysticks. Some users prefer to use the area between the chin and lower lip to move the joysticks, while others prefer using the lips.

It is important that the TetraMouse be brought into position without the user having to "reach" for it. If the user has to change position or strain to reach the TetraMouse, he or she will be more likely to experience fatigue or muscle pain after a period of use.

CAUTION: Prolonged use of the TetraMouse, as with any mouse, can result in muscle pain, fatigue or even repetitive stress injury. The user should take periodic breaks, as is recommended for all mice and keyboards.

FEATURES OVERVIEW OF THE TETRAMOUSE



The four indicator lights show the various states and settings of the TetraMouse while it operates in Mouse Mode or Program Mode. In Mouse Mode the color coded indicators show which speed channel is active. In Program Mode they give various indications depending on the operation (as explained later).

The left and right joysticks allow the user to move the mouse pointer, perform clicking, drag and drop, scrolling, programming the pointer speeds and speed memory configurations.

The TetraMouse connects to the computer using any available USB port. You may connect one or more other mice to the computer if desired (recommended if a helper or other person will also be using the same computer).

The 1/4"-20 male threaded stud protrudes from the center of the back of the unit to provide for mounting the TetraMouse.

MOUNTING STUD
(1/4"-20)

k

USB CONNECTOR
AND CABLE

REAR VIEW

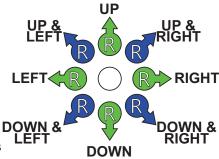
THE RIGHT JOYSTICK

Push the right joystick in any of the eight directions illustrated to move the mouse pointer on the computer monitor in the corresponding direction.

The mouse pointer moves at the speed setting of the currently selected Speed Channel (see details on selecting Speed Channels in the Programming section). The pointer stops moving when you release the right joystick.

In Program Mode, the right joystick is used to change the speed setting of the currently selected Speed Channel, to select any of four memory locations for storing and recalling speed setting configuration combinations, or for resetting the TetraMouse to its factory default settings.

The section about Programming has complete details of the right joystick functions in Program Mode.



MOVE LEFT
Push the right joystick left

MOVE UP & LEFT
Push right joystick up & left

MOVE UP
Push the right joystick up

MOVE UP & RIGHT Push right joystick up & right

MOVE RIGHT
Push the right joystick right

MOVE DOWN & RIGHT Push right stick down & right

MOVE DOWN
Push the right joystick down

MOVE DOWN & LEFT
Push right joystick down & left

THE LEFT JOYSTICK

The LEFT JOYSTICK is used to perform all eight mouse button clicks, left and right click-and-hold (drag and drop), scrolling, and to enter Program Mode.

Use movements as shown on the right to perform the various functions. Left, right and middle button clicks, and entering Speed/Program Mode are simple straight movements. Buttons 4 through 8, click & holds and scrolls use combination moves (or gestures). As an example of a combination move gesture, a left click & hold is performed by pushing the left joystick left, then while still holding to the left, pull the joystick down, then release. With a little practice, the "gesture" moves can be done in one smooth, arcing movement, first pushing the joystick in the first direction, then the other direction, then releasing.

The blue indicator light blinks while a left click & hold is active. The red indicator light blinks while a right click & hold is active. Release a left click & hold with a normal left click. Release a right click & hold with a normal right click. A context menu may pop up onscreen when releasing a right click & hold. The context menu may be acted upon with a left click on any of the menu options, or dismissed with a left click outside of the menu.

In program mode you can select a Speed Channel, change the speed setting of the current Speed Channel, store up to four Speed Channel configurations to one of four memory locations, recall any of the four Speed Channel configurations or reset all memory and speed settings to the original factory defaults. See the Programming section for complete details.

Page 6



LEFT CLICK Push left, then release



RIGHT CLICK Push right, then release



MIDDLE CLICK Push down, then release



BUTTON 4 CLICK

Push up, then left, & release



BUTTON 5 CLICK



Push up, then right & release

BUTTON 6 CLICK



Push down, then left & release



BUTTON 7 CLICK

Down, then right & release



BUTTON 8 CLICK

Push down, then right, then up, then release



LEFT CLICK & HOLD

Push left, then down & release



RIGHT CLICK & HOLD

Push right, then down & release



SCROLL DOWN

Left then up - hold for repeat

SCROLL UP

Right then up - Hold for repeat



SPEED / PROGRAM

(See Programming details)
Push up & release to select
Program Mode

PROGRAMMING PROGRAMMING OVERVIEW

The left and right joysticks perform different functions when the TetraMouse is in Program Mode. When the TetraMouse is powered up, it starts in Mouse Mode. To enter Program Mode, the user pushes the left joystick up, then releases the joystick. All four indicators blink once, then all indicators go off to indicate the change to Program Mode.

In Program Mode, the user can select any of the four Speed Channels or change the pointer speed settings for each of the four Speed Channels to any one of 16 speeds. Each of the 16 speed settings are indicated by a unique pattern of the four indicator lights during the programming operation (see diagram in the Speed Channel Programming section).

Also, in Program Mode, the user may store and recall four different custom Speed Channel memory configurations consisting of the four speed settings for each of the Speed Channels, or reset all the speed and memory settings to the factory defaults.

All programmed settings that have been stored in memory by the user are retained in memory in the TetraMouse even if it is disconnected or when the computer is turned off.

Important Note: Speed changes to the Speed Channels not stored in memory by the user will be lost if the TetraMouse is disconnected or the computer is turned off.

Details of changing speeds and performing memory operations are given on the following pages.

SPEED CHANNEL SELECTION

The TetraMouse has four Speed Channels that can be selected by the user. These Speed Channels are named "Blue", "Green", "Yellow" and "Red" and, when selected, they are indicated by the corresponding colored light indicator.

Each Speed Channel is programmed with a "Speed Number" that determines the speed the mouse pointer moves across the computer screen when the right joystick is moved.

On power up, the TetraMouse starts with the Green Speed Channel selected, as indicated by the green light. To select a different Speed Channel, first push the left joystick up. All four indicator lights blink once to indicate the change to Program Mode. Then push the left joystick in one of the four directions, down, left, right or up to select the desired Speed Channel as shown to the right on this page.

BLUE CHANNEL



Push the left joystick up to enter Program Mode, then push down to select the Blue Speed Channel.

GREEN CHANNEL



Push the left joystick up to enter Program Mode, then push left to select the Green Speed Channel.

YELLOW CHANNEL



Push the left joystick up to enter Program Mode, then push right to select the Yellow Speed Channel.

RED CHANNEL



Push the left joystick up to enter Program Mode, then then push up to select the Red Speed Channel.

After selecting a Speed Channel, the corresponding color-coded channel indicator turns on and the TetraMouse returns to Mouse Mode. The pointer will now move at the speed programmed for the selected Speed Channel when the right joystick is moved.

SPEED CHANNEL PROGRAMMING

To change the speed setting of any of the four Speed Channels, first select the Speed Channel you want to change, as described on the previous page.

Then push the left joystick up to enter Program Mode. All four indicators blink once indicating that Program Mode has been entered. Next, push the right joystick up to enable changing the speed setting. The indicator lights will display a scanning pattern, then display the current Speed Number as a pattern of lights. Refer to the speed indicator table (right) to determine the Speed Number setting of the currently selected Speed Channel. Speed Number 0 is the slowest speed and Speed Number 15 is the fastest speed. Push the left

joystick right to increase the Speed Number or push the left joystick left to decrease the

Speed Number. Note that if you try to increase the speed setting from 15, or decrease the speed setting from 0, the settings "wrap around" from 15 to 0, or 0 to 15. Once you have set the desired Speed Number for the current Speed

Channel, push the left joystick down to make the change and return to MOUSE mode.

Note that you can also push the left joystick down instead of left or right in order to exit Program Mode without making any changes. On exiting Program Mode, all indicators blink once, then the current Speed Channel indicator is again lit.

	DICATO	R LIGH	HTS	_
INI	SPEED			
BLUE	GREEN	YELLOW	RED	NO.
OFF	OFF	OFF	OFF	0
ON	OFF	OFF	OFF	1
OFF	ON ON	OFF	OFF	2
ON	ON	OFF	OFF	3
O OFF	OFF	ON	OFF	4
ON ON	OFF	OS	OFF	5
OFF	O N N	ON	OFF	6
ON ON	ON	ON	OFF	7
OFF	OFF	OFF	ON ON	8
ON	OFF	OFF	ON	9
OFF	O N	OFF	ON ON	10
ON	ON	OFF	ON	11
OFF	OFF	ON	ON ON	12
ON ON	OFF	ON ON	ON ON	13
O OFF	ON	ON	ON	14
ON	ON	ON	ON	15
			_	

CHANNEL MEMORY CONFIGURATIONS

The TetraMouse has four memory locations, designated A, B, C and D, for storing and recalling the four Speed Channel settings as four unique user configurations. The table (right) shows the factory default memory settings.

MEMORY	SPEED CHANNEL DEFAULTS			
LOCATION	BLUE	GREEN	YELLOW	RED
Α	0	2	6	9
В	1	4	7	10
C	2	5	8	11
D	0	5	10	15

When the TetraMouse is powered up, the current Speed Channels are set to the Speed Numbers stored in memory location A.

RECALLING MEMORY CONFIGURATIONS

Any of the four memory location contents (Speed Numbers) can be recalled by the user and placed into the current four Speed Channels and thereby made available for selection.

Push the left joystick up to enter Program Mode, then push the right joystick left to enable the recall function, then push the right joystick in any of the four directions (shown at the right) to select the desired memory location. The selection may be cancelled by pushing the left joystick down. On return from the recall function, all indicators blink once, Mouse Mode is restored and the Green Speed Channel is selected.



Push the left joystick up to enter Program Mode, then push the right joystick left

to enable the recall function. All indicators rapidly scan left twice. Select the desired memory configuration with the right joystick.

Push the right joystick up to select Memory A.

Push the right joystick right to select Memory B.

Push the right joystick down to select Memory C.

Push the right joystick left to select Memory D. After making a selection, Mouse Mode is restored and the green channel is selected. The recall function can

be cancelled before a selection has been made by pushing the left joystick down.

STORING MEMORY CONFIGURATIONS

After the user has gained some experience with the TetraMouse, he or she may find that they prefer speed settings other than the default settings stored in memory. Since the TetraMouse powers up using the Speed Numbers stored in memory location A, the user should store their four favorite speeds (assigned to the four color-coded Speed Channels) into location A as a memory configuration in order that these speeds are available initially when the computer is turned on. First, the user sets each of the four Speed Channels to the desired Speed Numbers as described previously. Then all four Speed Numbers are stored in the desired memory location by following the instructions shown on the right.

Push the left joystick up to enter Program Mode, then push the right joystick right

to enable the Store function. The indicators rapidly scan right twice. Select the desired memory storage location with the right joystick.

Push the right joystick up to select Memory A.

Push the right joystick right to select Memory B.

Push the right joystick down to select Memory C.

Push the right joystick left to select Memory D. After making a selection, all indicators blink

once, Mouse Mode is restored and the Green Speed Channel is selected

The Store function can be cancelled before a selection has been made by pushing the left joystick down.

RESETTING THE FACTORY DEFAULTS

To reset all the memory and Speed Channel settings to the original factory default settings push the left joystick up, then push the right joystick right, then push the left joystick up. The settings will then be as they were when the TetraMouse was shipped from the factory.

th rig

Push the left joystick up, then push the right joystick right, then push the left

joystick up. All memory defaults are reset to factory settings and the TetraMouse is restarted

SOFTWARE OPTIONS BUTTON REMAPPING IN WINDOWS

The TetraMouse can output 8 mouse button signals and scroll wheel up and down signals, however, the Windows mouse driver is only capable of handling 5 buttons and a scroll wheel. Therefore, most programs running in Windows are not capable of using more than 5 buttons. A program called X-Mouse Button Control is available from Highresolution Enterprises on their website at www.highrez.co.uk. X-Mouse Button Control is free "donation ware". If you decide to use it, please consider making a donation to the author at the highrez.co.uk website. X-Mouse Button Control, when used with the TetraMouse, provides the equivalent of 7 usable mouse buttons while retaining scrolling functionality. The first 5 buttons (left, right, middle, button 4 and button 5) can be remapped to perform various keystroke shortcuts and functions. Since the left, right and middle buttons provide the most often used mouse button functions, they are best left to operate normally without being remapped. The middle button, when activated in most applications with scrollbars, will change the mouse pointer to a scroll cursor, and scrolling may be performed by moving the right joystick. This makes the scroll outputs from the TetraMouse available to be remapped in X-Mouse Button Control just like the other mouse buttons, giving the user the equivalent of 7 button functions. Unfortunately, no generic mouse driver yet exists (for Windows) that can use buttons 6, 7 and 8 from any mouse, including the TetraMouse. The X-Mouse Button Control program is recommended for Windows users with the TetraMouse. See the highrez.co.uk website for more information about how X-Mouse Button Control works.

BUTTON REMAPPING ON A MAC

On Mac computers, a shareware program called USB Overdrive allows the user to remap all 8 of the TetraMouse button functions and scroll up and scroll down functions in order to perform various keystrokes, shortcuts and functions. The trial version of USB Overdrive may be downloaded from www.usboverdrive.com. There is a very minor "nag" at program start-up urging you to buy this software. USB Overdrive's trial version continues to work indefinitely if you don't buy it, but the price is very low, so if you use this program please consider paying for it.

Using USB Overdrive, the user can remap up to 10 functions from the TetraMouse. Please see the complete details of USB Overdrive on their website at www.usboverdrive.com.

TYPING WITH AN ON-SCREEN KEYBOARD

The Click-N-Type onscreen virtual keyboard is highly recommended for use with all models of the TetraMouse because of its advanced features. It is available as a free download at the author's website at http://www.lakefolks.org/cnt/.

Also available on the Click-N-Type website is the Click-N-Type Designer that allows you to custom design your own version of the virtual keyboard layout.

The features of the Click-N-Type virtual keyboard are too numerous to list here. See all details on the website and in the Help files included in the program.

OPERATING OPTIONS AND TIPS KNOB OPTIONS

The TetraMouse comes with 5/8-inch diameter round knobs as standard equipment, but other knobs are available such as the Cup Knobs that may be used to operate the TetraMouse with the tongue or finger, and Bulb Knobs that bend easily and are intended for use by people with motor control issues in order to avoid personal injury or damage to the TetraMouse. All knob options are interchangeable. Knobs are easily removed by pulling them off, and installed by pushing them on.

The joystick shafts are threaded, but the tough flexible material of the knobs allows them to be installed and taken off without damaging the threads or the knobs. The threaded shafts also allow installation of older screw-on TetraMouse knob styles. See the tetramouse.com website for all current knob styles.

TIPS AND TECHNIQUES

MOUSE POINTER SPEED - It is recommended that the Windows mouse default pointer speed settings be used when first setting up the TetraMouse. From the Control Panel, open Mouse Properties (Mouse) and click on the "Pointer Options" tab. The Motion slider should be set to the center position half way between "Fast" and "Slow". This setting will affect all the TetraMouse speed settings proportionally.

It is recommended that any third party mouse drivers be uninstalled if the TetraMouse seems to run excessively fast or slow.

If you use an operating system other than Windows, start with the default settings and make adjustments to pointer speed if desired.

TIPS AND TECHNIQUES (Continued)

DEVELOPING YOUR SKILLS - As with any new device, your operating skills will improve with practice. As you begin learning how to use the TetraMouse don't be discouraged if it feels like you are not making much progress. Remember that any type of mouse takes some time to learn, even for people without disabilities. Practice will improve your skills dramatically. You will learn how much movement, and in what direction, it takes to achieve the desired results. Mouse operations, especially those that require moving first in one direction, then another, need a little more attention than operations requiring just a simple, single direction movement. With practice you can refine these moves and increase your efficiency and proficiency.

WEB BROWSING - Practically all web browsers, such as Internet Explorer, Firefox and others, recognize mouse buttons 4 and 5 as shortcuts for the "Back" and "Forward" browser functions. Consider not remapping these buttons if you plan to browse the internet often.

Scrolling up and down on web pages is a good feature to have. The "third" or "middle" button (push down on the left joystick) will change the mouse pointer to a scroll cursor in most browsers and many other windows when scroll bars are present on the sides of those windows. With the scroll cursor activated, you can scroll by moving the mouse (pushing the right joystick) in the direction you wish to scroll. Exit this mode by pushing the left joystick down again, restoring the normal mouse pointer.

By utilizing the third or middle button technique for scrolling, the scroll up and scroll down functions on the TetraMouse are free to be remapped to perform other functions.

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TIPS AND TECHNIQUES (Continued)

OTHER APPLICATIONS - Software applications that are capable of recognizing more than five buttons sometimes provide a means to redefine the button functions within the program. Explore these possibilities to make computing more efficient.

It is a good idea to read help files in applications in order to discover ways to increase efficiency. The Click-N-Type virtual on-screen keyboard application that allows you to type using the TetraMouse has some very handy features that may not be apparent until you study the help file and discover, for example, you can type an upper case letter by simply doing a right click on the key, and a lower case letter by doing a left click. This saves having to click on the Shift key to capitalize a word.

Familiarity with your software applications is the best method to improve your efficiency on the computer. You work best when you understand and utilize the capabilities of your tools to the fullest extent.

CLEANING THE TETRAMOUSE

Use a soft cloth slightly dampened with isopropyl (rubbing) alcohol to clean the housing of the TetraMouse and the Articulated Arm mounting system. Allow the alcohol to evaporate completely before use. Do not use any other cleaning agents or solvents on the TetraMouse housing. The joystick knobs may be cleaned by removing them and scrubbing and rinsing with a toothbrush and soapy water, or toothpaste, or isopropyl alcohol. Rinse well and dry completely before reinstalling. Do not allow any liquids to enter the TetraMouse housing.

WARRANTY AND SUPPORT

30-day Satisfaction Guaranty

Satisfaction guaranteed! If you are not satisfied with the performance of the TetraMouse you may return it for a full refund (less shipping) within thirty (30) days from the original date of purchase. Return shipping charges or any foreign currency exchange fees or other third party fees are not covered by this guaranty.

Lifetime Repair/Replace Warranty

The TetraMouse is warranted to be free from defects for as long as you own it. If it fails for any reason TetraLite Products will replace or repair it free of charge, however, shipping charges are not covered by this warranty and must be paid by the customer. This warranty is transferable if the TetraMouse is given, or sold as used equipment, to another person or organization. This warranty does not cover any shipping and handling charges or any PayPal or foreign currency exchange fees. This warranty may be void if the TetraMouse is resold under another name or brand, or if any of the original TetraMouse markings, logos or serial numbers are intentionally altered, removed or obscured.

Customer Support

TetraMouse customers are provided with forever customer technical support for the life of the product. This support is transferable and follows the TetraMouse in the event it is sold or given to another person as used equipment (not resold as "new"). TetraLite Products will do its best to provide the best customer support possible in a timely manner. TetraMouse users are encouraged to contact TetraLite Products by email or phone with any questions or comments. The latest contact information is always available at www.tetramouse.com.

Disclaimer

The TetraMouse is not intended for use in critical medical or life support applications and TetraLite Products will not be responsible for any damages incurred by its use as such. TetraLite Products will not be held responsible for the unlikely event of any damage or personal harm resulting from the use or misuse of any of its products in any manner whatsoever. By purchasing a TetraMouse you agree to not hold TetraLite Products responsible for any damages whatsoever that may occur to any person, entity, property, computer, pets or other equipment or furnishings as a result of its use.

INDICATOR LIGHTS				SPEED
BLUE	GREEN	YELLOW	RED	NO.
OFF	OFF	OFF	OFF	0
ON ON	OFF	OFF	OFF	1
OFF	○ N	OFF	OFF	2
○	ON	OFF	OFF	3
OFF	OFF	○ [≥]	OFF	4
○	OFF	OS O	OFF	5
OFF	ON ON	○ ○○	OFF	6
ON	ON	ON	OFF	7

INDICATOR LIGHTS				SPEED
BLUE	GREEN	YELLOW	RED	NO.
OFF	OFF	OFF	O N O	8
ON	OFF	OFF	O Z	9
OFF	ON ON	OFF	ON ON	10
ON	ON ON	OFF	ON ON	11
OFF	OFF	ON ON	ON ON	12
ON	OFF	OS O	O N O	13
OFF	ON ON	OS O	O N O	14
ON	ON	ON	ON	15

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