# **FULCRUM COMPUTER** PRODUCTS CO. Trackball Plus

### **ALTERNATE INPUT**

# **MICE AND TRACKBALLS**

## by Rink Murray

Fulcrum Computer Products' Trackball Plus is a six-button, cursor-control device that supports eight different emulations. And at \$89, the Trackball Plus maintains the bargain status we gave it when it was last reviewed in our August 1987 issue ("Trackballs: Stationary Mice").

It also shows some of the same problems. First, it needs its own 120-volt power supply, so you'd better have an extra outlet handy and be willing to put up with yet another cable on your desk. And while the DOS-based installation procedure is simple in theory, the lack of clearly organized, step-by-step documentation makes it otherwise.

However, after your initial struggle, you'll find using the Trackball Plus to be a pleasant experience. In addition to the Microsoft Mouse emulation, the Trackball Plus emulates seven other devices, including a Summagraphics Bit-Pad digitizing tablet.

There are two ways to move from one mode to another. You can install drivers at the DOS prompt or, as long as you have the correct driver installed, simply press the 1, 2, 3, and 5 keys simultaneously, followed by the keys corresponding to the mode you desire.

The Trackball Plus' six buttons are la-

0	Dell Computer	DELLas	Electronic	Focus	Fulcrum	International	International	International	
Commax Inc.	Corp. Dell Serial	DFI Inc. DMS-200	DFI Inc. DMS-200H	Corp. Focus FT-100	Computer Products Co.	IBM Corp. IBM/PS/2	Machine Control Systems	Machine Control Systems	Microcomputer
Ball	Mouse	Mouse	Mouse	Tracker	Trackball Plus	Mouse	The MousePen	The MousePen	
\$78	\$59.95	\$79.95	\$79.95	\$65	\$89	\$99	\$129	\$129	\$99.95/\$109.95
								4120	400.0014100.00
Trackball	Mouse	Mouse	Mouse	Trackball	Trackball	Mouse	Mouse	Mouse	Mouse
Commax	Logitech	DFI	DFI	Focus	Fulcrum	Alps	IMCS	IMCS	Z-Nix
Serial	Serial	Serial	Serial	Serial	Serial	PS/2	Serial	PS/2	Serial, bus
0, 3, 7, 8	4	3, 4	3, 4	1,2	1, 2	12	0, 3, 4	0, 3, 4	4
300	200	200	200	160	100	200	100	100	250
3	2	3	3	3	6	2	2	2	2
Optomechanical	Optomechanical	Optomechanical	Optomechanical	Optomechanical	Optomechanical	Mechanical	Optomechanical	Optomechanical	Mechanical
N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A
0					0				
One year parts and labor	One year parts and labor	One year parts and labor	One year parts and labor	One year parts and labor	Six month parts and labor	One year parts and labor	Unconditonal one year parts and labor, lifetime afterward	Unconditonal one year parts and labor, lifetime afterward	Lifetime parts and labor
62	72	71	71	59.5	48	108	118	118	69
0.52	0.19	0.24	0.24	0.75	0.86	0.11	0.06	0.06	0.25
N/A	14,336	15,657	15,657	817,152	11,120	N/A	10,960	10,496	10,544
									Constitution of the consti
19,526	14,336	15,569	15,569	272,384	16,888	10,384	10,480	10,000	9,952
5.25	5.25 and 3.5	5.25	5.25	5.14	5.25, 3.5	3.5	5.25, 3.5	5.25, 3.5	5.25
4.1	3.43	3.0	3.0	1.02	6.24B	1.1	6.24A	6.24A	6.11
		0	0			0	•		0
0	0	0				0			0
N/A	N/A	N/A	5	160	100	N/A	50	50	N/A
N/A	N/A	N/A	700	500	25,000	N/A	1,000	1,000	N/A
		-		0	•	0			-
Microsoft, Mouse Systems	Microsoft	Microsoft, Mouse Systems	Microsoft, Mouse Systems	Microsoft, Mouse Systems	Microsoft, Mouse Systems	0	Microsoft	Microsoft	Microsoft
•	•	•	•	•	•	•	•	•	
	0								
	•	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	THE RESIDENCE OF THE PARTY.	The State of the S		The second second second	CONTRACTOR DESIGNATION		THE RESERVE THE PARTY OF THE PA		

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beled 1, 2, 3, 4, A, and 5. The A key functions as an Alternate Cursor key for use in CAD programs, allowing you to put two cursors on-screen. If you need to drag something across the screen simply push button 4, and the next button you press will lock until your next click.

Included with the Trackball Plus are two menuing programs. The first lets you create your own menu templates. The other nifty program is Point-N-Shoot, a memory-resident windowing program that makes keystroke commands virtually obsolete in many popular applications such as Lotus 1-2-3, WordPerfect, dBASE, and many more.

The Trackball Plus is an optomechani-

cal device, so there are few breakable parts. Resolution is a modest 100 dpi, but scrolling is only the slightest bit jumpy.

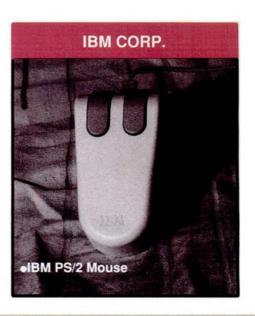
The Trackball Plus is and has been a solid performer, but look for the new Fulcrum trackball due out about the same time as this article. With higher resolution and self-installation promised, this good thing will only get better.

### **Trackball Plus**

Fulcrum Computer Products Co., 459 Allan Ct., Healdsburg, CA 95448; (707) 433-0202.

List Price: \$89.

CIRCLE 618 ON READER SERVICE CARD



Products listed in alphabetical order by company name    Consider to   C										
List price	ITAC Systems Inc. Mouse-Trak \$169/\$195*	ITAC Systems Inc. Mouse-Trak \$179/\$199*	Kensington Microware Ltd. Kensington Expert Mouse \$169.95		Kraft Systems Inc. Kraft Trackball \$129.95	KYE International Corp. Genius Mouse GM-6X \$49	KYE International Corp. Genius Mouse GM-6000 \$79	KYE International Corp. Genius Mouse GM-F302/F303 \$99/\$109*		
HARDWARE FEATURES			PERSONAL SERVICE							
Type of device	Trackball	Trackball	Trackball	Mouse	Trackball	Mouse	Mouse	Mouse		
Manufacturer	ITAC Systems	ITAC Systems	Kensington Microware	Key Tronic	Kraft Systems	KYE International	KYE International	KYE International		
nterfaces supported	Serial, bus PS/2, InPort	Serial, bus PS/2, InPort	PS/2	Serial, bus	Serial	Serial	Serial	Serial, PS/2		
RQs supported	3, 4, 5, 7, 10, 11, 12, 15	3, 4	2, 3, 4, 5, 7, 10, 11, 12, 15	2, 3, 4, 5	3, 4	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5		
Base (hardware) resolution (ppi)	200	200	200	200	200	200	350	350		
Number of buttons	2	3	2	2	3	3	3	3		
Position sensor used	Optomechanical	Optomechanical	Optomechanical	Mechanical	Optomechanical	Optomechanical	Optomechanical	Optomechanica		
Mouse pad included	N/A	N/A	N/A		N/A					
Ball removable for cleaning										
Varranty	One year parts and labor	One year parts and labor	One year parts and labor	One year limited	Five year parts and labor	Lifetime parts and labor	Lifetime parts and labor	Lifetime parts and labor		
Cord length (inches)	60	60	72	58	96	70	71	70		
Weight of device only (lbs.)	0.94	0.94	0.89	0.32	0.75	0.26	0.26	0.87		
SOFTWARE FEATURES										
Number of bytes in CONFIG.SYS device driver	11,000	11,000	15,392	10,688	11,887	N/A	13,083	13,659		
Number of bytes in command line triver	10,000	10,000	20,894	10,224	13,525	12,649	13,664	13,664		
Disk format of supplied driver	5.25	5.25	5.25, 3.5	5.25	5.25	5.25	5.25	5.25		
/ersion of tested driver	6.11	6.11	2.03	1.1	1.06	8.20	9.03	9.03		
Driver can be uninstalled from DOS				0						
Ballistic tracking supported	(bus only)	(bus only)		0	0		•			
Minimum resolution supported	20	20	20	N/A	10**	50	87.5	87.5		
Maximum resolution supported	800	800	10,000	N/A	1,150**	800	1,400	1,400		
Driver upgrades available							•			
Other mouse emulations included	Microsoft, Mouse Systems	Microsoft, Mouse Systems	Microsoft, IBM PS/2	Microsoft	0	Microsoft, Mouse Systems	Microsoft, Mouse Systems	Microsoft, Mouse Systems		
Supports Microsoft Mouse driver in Microsoft Windows		•		•	•		•			
Mouse driver supports interrupt 33	-									
Oriver for Microsoft Windows	0	0		0	0	٥	0	0		

N/A-Not applicable: the product does not have this feature.

<sup>\*</sup>Where two list prices are given, the first is a serial, PS/2, or InPort version. The second is the bus version

except in the case of the Genius Mouse GM-F302/F303 and the Series 9 mouse, whose prices are clarified in the fact files.

<sup>\*\*</sup>The product features adjustable resolution, but not ballistic tracking.