The Buxton - Microsoft Collection

Inventory of Interactive Device Collection

Bill Buxton
First Draft: August 29th, 2011
Current Draft: March 24th, 2020

Contents:

1. MICE
2. Tablet Pucks and Pens
3. Touch Pads
4. Touch Screens
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10. e-Readers
11. Pen Computers
12. Watches
13. Wearables: Gloves, Rings, Heads, etc.
14. Pedals
15. Game Controllers & Toys
16. Remote Controls
17. Dials
18. Miscellaneous
19. Reference Material, Toys, …
20. Purging from Collection

Note:

• Devices that have a “Y” in the right-most column are included in the current collection web-site which can be accessed here: https://www.microsoft.com/buxtoncollection. Note that perhaps less than 1/3 of the collection is on-line, and for the most part, the entries for those that are on-line are minimal (though hopefully still useful), compared to what is being prepared. A new, complete site is under curation and will be posted as soon as possible – but don’t hold your breath. It’s a big job.
• Devices with a red “N” in the rightmost column are in the process of being documented and prepared for inclusion on the web site. For requests for photos or other details of items not yet on the site, contact me via email.
• The Catalogue Code in the second column tells me where the item is stored. This code is in the form BBB-NNN, where BBB is the bin code & NNN (not always used) is the 3-digit item number in that bin.
<table>
<thead>
<tr>
<th>Photo</th>
<th>Code</th>
<th>Name</th>
<th>Year</th>
<th>Price</th>
<th>Company</th>
<th>Notes</th>
<th>Pivot?</th>
</tr>
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<tbody>
<tr>
<td><img src="image1.png" alt="M-06" /></td>
<td>M-06</td>
<td>NRC</td>
<td>1968</td>
<td>NFS</td>
<td>National Research Council of Canada</td>
<td>Donated by Nestor Burtnyk. Built by Grant Bechthold</td>
<td>N</td>
</tr>
<tr>
<td><img src="image2.png" alt="MI2" /></td>
<td>MI2</td>
<td>Swiss Mouse</td>
<td>1980</td>
<td>$295.00</td>
<td>De Praz</td>
<td>DePraz began manufacturing in 1980, but following design built in 1979. Logitech started selling it in 1982 for $299.00</td>
<td>Y</td>
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<tr>
<td><img src="image3.png" alt="m-06" /></td>
<td>m-06</td>
<td>Hawley Mouse MK II</td>
<td>1982</td>
<td>$415</td>
<td>Mouse House</td>
<td></td>
<td>Y</td>
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<tr>
<td><img src="image4.png" alt="M-04" /></td>
<td>M-04</td>
<td>M-1</td>
<td>1982</td>
<td>$295 (1983)</td>
<td>Mouse Systems</td>
<td>MI1-024 (B) is trackpad</td>
<td>Y</td>
</tr>
<tr>
<td><img src="image5.png" alt="M04" /></td>
<td>M 04</td>
<td>M2</td>
<td>1983 (?)</td>
<td></td>
<td>Mouse Systems</td>
<td></td>
<td></td>
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<td>Code</td>
<td>Model</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
<td>Information</td>
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<tr>
<td>M-08</td>
<td>Microsoft “Green Eye” Bus Mouse</td>
<td>1983</td>
<td>$195.00</td>
<td>Microsoft</td>
<td>Gen 1</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>M-06</td>
<td>M9M0050</td>
<td>1983</td>
<td></td>
<td>Apple</td>
<td>The original Lisa mouse, the first mouse shipped by Apple. In orig. packaging</td>
<td>N</td>
<td></td>
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<tr>
<td>M12</td>
<td>Cordless IR Mouse</td>
<td>1984</td>
<td></td>
<td>Metaphor</td>
<td>The first cordless mouse commercially available. The 1984 Metaphor computer also came with a cordless keyboard and had an optional cordless numerical keyboard and keypad. Built by Logitech.</td>
<td>N</td>
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<tr>
<td>M-06</td>
<td>Macintosh Model M0100</td>
<td>1984</td>
<td></td>
<td>Apple</td>
<td>The original Macintosh mouse</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>M12</td>
<td>C7</td>
<td>1985</td>
<td>$99.00</td>
<td>Logitech</td>
<td>First mouse manufactured by Logitech, sold under their own brand (rather than sold under license, the P4, or built as OEM and branded; First retail mouse by Logitech. Under $100. Breakthrough in technology &amp; price</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Brand</td>
<td>Notes</td>
<td></td>
<td></td>
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<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
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<tr>
<td>M-06</td>
<td>6085 Optical 2-Button Mouse</td>
<td>1985</td>
<td>Xerox</td>
<td>(includes original optical mouse pad)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-05</td>
<td>Optical 3-Button Mouse</td>
<td>1985?</td>
<td>Xerox</td>
<td>Not sure of date, but 6085 vintage. I think was for machines running lisp rather than viewpoint.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>M1-028</td>
<td>Amiga Mouse</td>
<td>1985</td>
<td>Commodore</td>
<td>Second mouse (M-05) signed by Jay G. Miner, designer of the Amiga chip set as well as that for Atari 800</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>M06</td>
<td>Model No. VSXXX-AA.CO3</td>
<td>1986</td>
<td>DEC</td>
<td>Has wheels rather than roller. Made by Hawley.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X2</td>
<td></td>
<td></td>
<td>The DEC VSXX, Keytronic LT PS2-B &amp; Torrington Manager Mouse all have the same retro wheel mechanism.</td>
<td></td>
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<tr>
<td>M-04</td>
<td>LT Mouse PS2-B</td>
<td>?</td>
<td>Keytronic</td>
<td>The DEC VSXX, Keytronic LT PS2-B &amp; Torrington Manager Mouse all have the same retro wheel mechanism.</td>
<td></td>
<td></td>
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<tr>
<td>M-04</td>
<td>Manager Mouse</td>
<td>1986</td>
<td>Torrington</td>
<td>The DEC VSXX, Keytronic LT PS2-B &amp; Torrington Manager Mouse all have the same retro wheel mechanism.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Only have brochure for wireless version.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Model</td>
<td>Name</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
<td>Description</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>M-04</td>
<td>Manager Mouse</td>
<td>1986</td>
<td>Parallel: $???, Serial: $195</td>
<td>Numonics</td>
<td>Similar retro wheels as Torrington &amp; Hewlett Packard (HP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-08</td>
<td>Microsoft Mouse Bus Version\n&quot;Grey Eye&quot; Mouse</td>
<td>1986</td>
<td>Parallel: $???, Serial: $195</td>
<td>Microsoft</td>
<td>Gen 2</td>
<td></td>
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<tr>
<td>M-06</td>
<td>Macintosh ADB Mouse</td>
<td>Jan. 1987</td>
<td>Apple Computer</td>
<td>Industrial Design by frogdesign. Mechanicals by Logitech, I believe, for Apple. 2\textsuperscript{nd} is G5431</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>MI1-009</td>
<td>M-4</td>
<td>1987</td>
<td>Mouse Systems</td>
<td>Sun branded version of the mouse above. (why do I have this separate from the M1 (1982) and M2 (1983?)</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<tr>
<td>M-07</td>
<td>PS/2 Mouse</td>
<td>1987</td>
<td>$99.99</td>
<td>IBM</td>
<td>Introduction of PS/2 input port, with launch of PS/2 computers.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-08</td>
<td>Serial Mouse &quot;Dove Bar&quot;</td>
<td>1987</td>
<td></td>
<td>Microsoft</td>
<td>Gen 3</td>
<td></td>
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</tbody>
</table>


<table>
<thead>
<tr>
<th>MI2</th>
<th>X2</th>
<th>ClearCase Mouse SN LT25385</th>
<th>1988</th>
<th>Logitech</th>
<th>One is in original box with documentation, the other note.</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>MI1</td>
<td>1 of 2 transparent</td>
<td>Mouse Phone</td>
<td>x2) DP-006</td>
<td>Small Talk</td>
<td>Ref: Star Trek IV: The Voyage Home (1986)</td>
<td>y</td>
</tr>
<tr>
<td></td>
<td># 2 of 2 Ivory</td>
<td>Mouse Phone</td>
<td></td>
<td>Small Talk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MI1</td>
<td></td>
<td>TouchSense Mouse</td>
<td></td>
<td>Immersion</td>
<td></td>
<td>y</td>
</tr>
<tr>
<td>M-04</td>
<td>Silverplated Mouse</td>
<td></td>
<td>Wallace Silversmiths</td>
<td>PS/2</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>MI1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>M-07</td>
<td>PS/2 Trackpoint</td>
<td>1991</td>
<td>$159.00</td>
<td>IBM</td>
<td>Perhaps unique mouse. Works as a normal 2D ball mouse one way up. Flip it over and it is a trackball. Was introduced in March 1991 with the IBM PS/2 SX Laptop.</td>
<td></td>
</tr>
<tr>
<td>MI2</td>
<td>Cordless MouseMan</td>
<td>1991</td>
<td>$149.00</td>
<td>Logitech</td>
<td>First cordless mouse using radio rather than IR communication between mouse and receiver connected to computer. See the 1984 Metaphor mouse, the first commercially available wireless mouse. It used IR.</td>
<td></td>
</tr>
<tr>
<td>M-06</td>
<td>Rightin-XR1 Pen Shaped Mouse (PSM)</td>
<td></td>
<td></td>
<td>Careo</td>
<td>Compare to Appoint MousePen, below, released same year. Note: 1991 patent for design by Careo, suggesting that it is the original.</td>
<td></td>
</tr>
<tr>
<td>MI1-026</td>
<td>MousePen</td>
<td>1991</td>
<td>$99.00</td>
<td>Appoint</td>
<td>See Appoint Computer Crayon</td>
<td></td>
</tr>
<tr>
<td>MI2</td>
<td>Kidz Mouse</td>
<td>1991</td>
<td>$79.00</td>
<td>Logitech</td>
<td>Logitech introduced the first mouse made especially for children …it was much smaller than traditional mice, its tail/cord stemmed from the back.</td>
<td></td>
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<tr>
<td>Item Code</td>
<td>Mouse Name</td>
<td>Year</td>
<td>Price</td>
<td>Brand</td>
<td>Notes</td>
<td></td>
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<tr>
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<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>LcMouse</td>
<td>1991</td>
<td>$14.99</td>
<td>Genius</td>
<td>Verify price – if correct, then good example of significant price drop beginning.</td>
<td>N</td>
<td></td>
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<tr>
<td>M-06</td>
<td>Desktop Bus Mouse II</td>
<td>1992</td>
<td>Apple</td>
<td>Ball Mouse</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>M-06</td>
<td>Mouse for NeXTstation Turbo Color Computer</td>
<td>1992</td>
<td>NeXT</td>
<td>Photos of machine: <a href="https://www.flickr.com/photos/blakespot/2378242123/in/photolist-4Ca7wv-7wuV4i-baXhA6">https://www.flickr.com/photos/blakespot/2378242123/in/photolist-4Ca7wv-7wuV4i-baXhA6</a></td>
<td>N</td>
<td></td>
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<tr>
<td>MI1</td>
<td>PowerMouse</td>
<td>1992</td>
<td>$225.00</td>
<td>Prohance</td>
<td>n</td>
<td></td>
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<tr>
<td>M-04</td>
<td>Computer Crayon</td>
<td>1993</td>
<td>Appoint</td>
<td>See Appoint MousePen</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>AirMouse</td>
<td>X2</td>
<td>1992</td>
<td>~$500.00</td>
<td>AirMouse Remote Controls. Changed to SeleTech in 1993. One of each in collection.</td>
<td>N</td>
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<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
<td>Notes</td>
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</tr>
<tr>
<td>M-08</td>
<td>Microsoft Serial Mouse 2.0</td>
<td>1994</td>
<td>$64.95</td>
<td>Microsoft</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>
| M-06  | AeroDuet 3-D Cordless IR Mouse and Pen | 1994 | $149.00 | Creative Labs | A.K.A. Aeropoint Includes:  
- AeroBase  
- AeroMouse  
- AeroPen | N     |
| M-07  | Home Mouse | 1994 | | Microsoft | X2 both new in box | N     |
|      |             |      |       |              |       |
| M-07  | Mouse-Burger RTC RON-55 | 1995 | | RTC | One new in box. Other used, no box. | N     |
| M-06  | ProAgio! Scrolling Mouse (a.k.a. Scroll Mouse) | 1995 | $49.99 | Mouse Systems | World’s First Commercial Scrolling mouse X4:  
- One in original Win 3.1 box  
- One in original Win 95 box  
- Two w/o box | N     |
<table>
<thead>
<tr>
<th>Model</th>
<th>Name</th>
<th>Year</th>
<th>Manufacturer</th>
<th>Notes</th>
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<tr>
<td>M-06</td>
<td>ProAgio Mouse Pin</td>
<td></td>
<td></td>
<td>Should be in with the Mouse Systems Scroll Mouse.</td>
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<tr>
<td>M-06</td>
<td>GyroPoint</td>
<td>1995</td>
<td>Gyration</td>
<td>Sensed when lifted off of desktop, and would switch to gyro signals to sense x/y motion. Designed by IDE. <a href="http://www.ideinc.com/company/">http://www.ideinc.com/company/</a></td>
</tr>
<tr>
<td>MI2</td>
<td>Cordless MouseMan 96</td>
<td>1996</td>
<td>Logitech</td>
<td>X2 Cordless MouseMan 96 Cordless MouseMan for Macintosh Latter in (damaged) box with packaging.</td>
</tr>
<tr>
<td>MI2</td>
<td>Cordless Mouseman Pro</td>
<td>1996</td>
<td>Logitech</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rockin’ Mouse</td>
<td>1996</td>
<td>Alias</td>
<td>Wavefront</td>
</tr>
<tr>
<td>MI1-010 M-04</td>
<td>Intellimouse (ball)</td>
<td>1996</td>
<td>Microsoft</td>
<td>X2 $84.95</td>
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<tr>
<td>Part Number</td>
<td>Mouse Model Description</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
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<tr>
<td>M-08</td>
<td>Intellimouse (ball)</td>
<td>1996</td>
<td>$84.95</td>
<td>Microsoft</td>
</tr>
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<td>MI1-014 M-06</td>
<td>SGI Mouse</td>
<td>~1996</td>
<td></td>
<td>SGI</td>
</tr>
<tr>
<td>M-07 X2</td>
<td>ScrollPoint 3-Button Mouse (G1)</td>
<td>1997</td>
<td></td>
<td>IBM</td>
</tr>
<tr>
<td>M-07 X2</td>
<td>Mickey Mouse</td>
<td>1998</td>
<td></td>
<td>Disney Interactive</td>
</tr>
<tr>
<td>M-07 X2</td>
<td>Minnie Mouse Computer Kit</td>
<td>1998</td>
<td></td>
<td>Disney Interactive</td>
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<tr>
<td>M-08</td>
<td>Basic Mouse</td>
<td>1998</td>
<td></td>
<td>Microsoft</td>
</tr>
<tr>
<td>M-06</td>
<td>ScrollPad Mouse FID-677</td>
<td>1998 (or sooner)</td>
<td>Fujitsu Takamisawa Component Ltd.</td>
<td>N</td>
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<tr>
<td>MI2</td>
<td>M-CW47</td>
<td>1998</td>
<td>Logitech</td>
<td>y</td>
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<tr>
<td>MI2-002</td>
<td>Pad Mouse</td>
<td>1998</td>
<td>Alias</td>
<td>Wavefront</td>
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<tr>
<td>M-08</td>
<td>TouchMouse</td>
<td>1998</td>
<td>NFS Microsoft Research</td>
<td>N</td>
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<tr>
<td>M-06</td>
<td>iMac G3 Mouse</td>
<td>1998</td>
<td>Apple Computer</td>
<td>N</td>
</tr>
<tr>
<td>M-06</td>
<td>UniTrap</td>
<td>1999</td>
<td>Contour Design</td>
<td>N</td>
</tr>
</tbody>
</table>

This is a plastic shell within which the round Apple iMac G3 “Hockey Puck” mouse can be fit.
<table>
<thead>
<tr>
<th>Model</th>
<th>Model Name</th>
<th>Year(s)</th>
<th>Price</th>
<th>Brand</th>
<th>Notes</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12</td>
<td>Wingman Force Feedback Mouse</td>
<td>Nov. 1999</td>
<td>$99.95</td>
<td>Logitech</td>
<td>Have 2nd. Not filed yet</td>
<td>y</td>
</tr>
<tr>
<td>1-08</td>
<td>IntelliMouse Explorer (Optical)</td>
<td>1999</td>
<td>$74.95</td>
<td>Microsoft</td>
<td>First optical mouse without a mouse pad</td>
<td>Update</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>First Microsoft Optical Mouse</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 dedicated forward/back buttons on left side for easier web browsing</td>
<td></td>
</tr>
<tr>
<td>M-07</td>
<td>ScrollPoint Pro Model: MO18B</td>
<td>2000</td>
<td>$39.95</td>
<td>IBM</td>
<td>400 dpi 31P8700</td>
<td>Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opto-Mechanical Ball Mouse</td>
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<tr>
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<td>One in M-05 may be 2nd. Think 1st is in bad condition</td>
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<td>• Ambidextrous version of the optical Intellimouse Explorer</td>
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<td></td>
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<td>• Ensure 2nd same as 1st</td>
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<td>2000</td>
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<td>2nd generation X2 units, (b) in box</td>
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<td>M 06</td>
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<td>First scrolling mouse. Perhaps first mouse with trackball for scrolling. Had to change name ...</td>
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Page 17 of 139
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<td>Dimentor</td>
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<td>Microsoft</td>
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<td>Autographed by Audrey Louchart, one of the two designers.</td>
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<td>D-01</td>
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<td>Cyber Sport</td>
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<td>M13</td>
<td>Freespace Loop Pointer</td>
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<td>$99.00</td>
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Like home Mouse, Mickey Mouse, etc., mouse form had link to other product.
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<td>Transparent Touch Mouse</td>
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# Tablet Pucks and Pens

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<tr>
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<th>Year</th>
<th>Price</th>
<th>Company</th>
<th>Notes</th>
<th>Pivot?</th>
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<tbody>
<tr>
<td><img src="image1.jpg" alt="MI2-008" /></td>
<td>MI2-008</td>
<td>Bit-Pad-1 4 Button Puck</td>
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<td>SummaGraphics</td>
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<td><img src="image2.jpg" alt="MI2-001" /></td>
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<td>Bit-Pad Stylus</td>
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<tr>
<td><img src="image3.jpg" alt="MI2-005" /></td>
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<td>Tablet Cursor</td>
<td></td>
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<td>GTCO</td>
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<tr>
<td><img src="image4.jpg" alt="PC-07" /></td>
<td>PC-07</td>
<td>KoalaPad+</td>
<td>1984</td>
<td>$125</td>
<td>Koala Technologies</td>
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<tr>
<td><img src="image5.jpg" alt="PC06" /></td>
<td>PC06</td>
<td>CADlab Digitizing Tablet Model 2210</td>
<td>1986</td>
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<td>Numonics</td>
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<td>CR1212</td>
<td>Summagraphics Digitizing Tablet (CR1212)</td>
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<td>GrafBar GP-7 Digitizing Tablet (GP-7)</td>
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<td>UD-1212R</td>
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<td>UD Lens Cursor</td>
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<td>Mi2-014</td>
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<td>Wacom</td>
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</table>

UD-Series digitizing tablets released, along with associated pucks and styli. The first tablet to be able to sense more than one device at once on its surface, thereby opening up opportunity for bi-manual tablet-based interaction.
<table>
<thead>
<tr>
<th>Code</th>
<th>Model Description</th>
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<th>Additional Info</th>
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<td>m-07</td>
<td>Mini Phicon</td>
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<td>BMW</td>
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<tr>
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<td>Intuos3 Grip Pen</td>
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<td>Wacom</td>
<td>x 2 (extra base)</td>
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<td>uDraw Game Tablet</td>
<td>2010</td>
<td>THQ</td>
<td>Wii tablet stylus controller</td>
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<td>Bamboo Stylus for iPad</td>
<td>2011</td>
<td>Wacom</td>
<td>X 2 (one in use by Bill)</td>
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<td>PC-07</td>
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<td>~2011</td>
<td>Charming Charlie</td>
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Note that 3M also did this in 2011 – see smart pen press release
## Touch Pads

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<td>Early laptop with touchpad</td>
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<p>| TP-02 |       |                     |      |       |         |       |</p>
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<td>A4</td>
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<td>TP-01-004 (B)</td>
<td>Glidepoint</td>
<td>(1994)</td>
<td></td>
<td>Cirque</td>
<td>1994 is date introduced. Not sure re this model. X2 Black</td>
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<td>TP-02 (W)</td>
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<td>iGesture Pad 2003 (2001?)</td>
<td>FingerWorks Move to TP-02</td>
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<td>TP-01-007</td>
<td>Simple Touch Pad</td>
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<td>Touch controller from Buxton &amp; Myers 2-H expt.</td>
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<td>Code</td>
<td>Name</td>
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### Touch Screens

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<td><img src="HP-150" alt="image" /></td>
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<td>Spaceball Technologies</td>
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<td>X 2 (2nd HP branded) Spacetec Labtec 3Dconnexion</td>
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<td>#2</td>
<td>JS-011</td>
<td>1992</td>
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<td>IBM</td>
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<td>TrackPoint joystick 1st released on ThinkPad 700 / 700C. Here on later PC kbd</td>
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<td>LogiCad3D / 3Dconnexion</td>
<td>Rebranded SpaceMouse in 2003</td>
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<td>SPACETEC</td>
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<td>y</td>
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<td>CYBERPUCK</td>
<td>1999</td>
<td>$395.00</td>
<td>LogiCad3D</td>
<td>A.K.A. Digital Immersion Nav3D Have 2\textsuperscript{nd}. Not filed. A/W</td>
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<td>CadMan 3D Motion Controller</td>
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Page 36 of 139
| JS-012 | Pantograph | 1993 | McGill University | Developed by Vincent Hayward | y |
| JS-02 | Cyberman 3D Controller | 1993 | $130.00 (see Katy’s Notes) | Logitech | In original box |
| M1 | FID-824 Series Palm Mouse | 2001 | | Fujitsu | |
### Trackballs

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<td><img src="image1" alt="Turbo Mouse" /></td>
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<td>Turbo Mouse</td>
<td>1986</td>
<td>$169.95</td>
<td>Kensington</td>
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<td><img src="image2" alt="AmTRAC" /></td>
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<td>MicroSpeed</td>
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<td><img src="image3" alt="FastTRAP 8905" /></td>
<td>(N)-TB 01</td>
<td>FastTRAP 8905 25 Pin Serial Two Three Axis Trackball</td>
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<td>MicroSpeed</td>
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<td><img src="image4" alt="LYNX Stand Alone 2” Trackball" /></td>
<td>N-TB 1</td>
<td>LYNX Stand Alone 2” Trackball</td>
<td>1987 (?)</td>
<td>$99.95</td>
<td>DiscInstruments</td>
<td>This was the first commercially available laptop to incorporate a trackball for pointing, and perhaps only the second laptop to have an integrated pointing device (the first being the 1983 Gavilan, which incorporated a touch pad).</td>
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<td><img src="image5" alt="Macintosh Portable" /></td>
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<td>Apple</td>
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<td>TrackMan Mouse T-CA1-9F S</td>
<td>1989</td>
<td>$139.00</td>
<td>Logitech</td>
<td>First thumb operated trackball in commercial use.</td>
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<td>Powerbook 100</td>
<td>1991</td>
<td>$2,300.</td>
<td>Apple Computer</td>
<td>First laptop to place cursor control centrally on the user's side of the keyboard. In this case a trackball. Enabled operation by thumbs, with equal access to left or right hand operation, thereby removing handedness bias, such as with the Trackball of the 1989 Macintosh Portable. Provides palm rest.</td>
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<td>TB-007</td>
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<td>$99.00</td>
<td>Appoint</td>
<td>Date somewhere between release of Win 3.1 &amp; 95.</td>
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<td>1992-1995</td>
<td>$175</td>
<td>Microsoft</td>
<td>Point out as similar to Logitech TrackMan Portable ($168) and Appoint Thumbelina ($199.00)</td>
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<td>ProHance</td>
<td>Integrated keypad with Key overlays (like PC Jr kbd)</td>
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<td>Check date starting with Logitech user guide in Logitech BG User Guide.</td>
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<tr>
<td>N-TB 1</td>
<td>Rollball Assembly P/N 60193 SERNO: 0358 Rev: H 0122</td>
<td></td>
<td>Orbit Instruments SN 5895-01-4723672</td>
<td>N</td>
<td></td>
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<tr>
<td>N-TB 1</td>
<td>Trackball Optical</td>
<td>2000</td>
<td>$44.95</td>
<td>Microsoft</td>
<td>N</td>
<td></td>
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<tr>
<td>N-TB 1</td>
<td>Logitech Cordless TrackMan Wheel Trackball</td>
<td>2002?</td>
<td>$59.96?</td>
<td>Logitech Part Number: 904346-0403</td>
<td>N</td>
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<tr>
<td>Model</td>
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<td>Year</td>
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## Chord Keyboards

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<tr>
<th>Photo</th>
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<tr>
<td><img src="image1" alt="KB1-001" /></td>
<td>KB1-001</td>
<td>Stenotype</td>
<td>1910</td>
<td></td>
<td>Grandjean</td>
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<td><img src="image2" alt="Advertisement" /></td>
<td>Adverisment</td>
<td>1913</td>
<td>Stenograph</td>
<td></td>
<td>Stenograph Ad from Saturday Evening Post, Nov. 29, 1913, p. 51. 26.5 x 35 mm / 10.5” x 13.75”</td>
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<td><img src="image3" alt="Master Model Four Stenotype" /></td>
<td>Master Model Four Stenotype</td>
<td>1927</td>
<td>Stenotype</td>
<td></td>
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<td><img src="image4" alt="MI-03" /></td>
<td>MI-03</td>
<td>Stenotype Machine</td>
<td></td>
<td></td>
<td>Palantype</td>
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<tr>
<td><img src="image5" alt="Shorthand recorder" /></td>
<td>Shorthand recorder</td>
<td>Circa 1975</td>
<td>Stenotype</td>
<td></td>
<td>Likely to be removed from collection due to better examples.</td>
<td>N</td>
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<tr>
<td>No.</td>
<td>Model</td>
<td>Year</td>
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<tr>
<td>KB1-002</td>
<td>PARC 5-key Chord Kbd</td>
<td>1973</td>
<td>NFS Xerox PARC</td>
<td>A direct derivative of the design used by Engelbart</td>
<td>y</td>
<td></td>
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<tr>
<td>KB1-003</td>
<td>WriteHander</td>
<td>1978</td>
<td>NewO Company X2 DP-004</td>
<td></td>
<td>y</td>
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<tr>
<td>KB1-004</td>
<td>Microwriter</td>
<td>1978 (1980 release)</td>
<td>Microwriter</td>
<td></td>
<td>y</td>
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<tr>
<td>KB1-005</td>
<td>Agenda</td>
<td>1989</td>
<td>Microwriter</td>
<td></td>
<td>y</td>
<td></td>
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<tr>
<td>Binder</td>
<td>Microwriter Agenda Review</td>
<td>1989</td>
<td>£1.20 NewScientist No. 1671, July 1, 1989</td>
<td>Review on pages 75-76.</td>
<td>N</td>
<td></td>
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<tr>
<td>KB1-006</td>
<td>Braille Writer</td>
<td>1980-84</td>
<td>Mechanische Werkstatt für der DDR</td>
<td>Mechanical Braille Writer. From DDR. Design is reflective of much earlier devices. But chosen as example because of appeal of its design.</td>
<td>N</td>
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<tr>
<td>KB1-006</td>
<td>CyKey</td>
<td>1996</td>
<td>$159.00</td>
<td>Bellaire Electronics</td>
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<tr>
<td>KB1-007</td>
<td>Bat</td>
<td>1991</td>
<td>$379.00</td>
<td>Infogrip (x2) DP-013</td>
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<tr>
<td>KB1-008</td>
<td>Twiddler</td>
<td>1991</td>
<td>$199.00</td>
<td>HandKey (TekGear)</td>
<td>y</td>
<td></td>
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<tr>
<td>KB1-009</td>
<td>FrogPad</td>
<td>2002</td>
<td>$229.00</td>
<td>FrogPad, Inc.</td>
<td>y</td>
<td></td>
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<tr>
<td>KB1</td>
<td>The Tap</td>
<td>2018</td>
<td>$179.00</td>
<td>Tap Systems Inc.</td>
<td>N</td>
<td></td>
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<td>Photo</td>
<td>Code</td>
<td>Name</td>
<td>Year</td>
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<tr>
<td><img src="image1" alt="Photo" /></td>
<td>Standard Folding Typewriter</td>
<td>1908 (1910)</td>
<td>$50.00</td>
<td>Standard Typewriter Company</td>
<td>The Grandparent of the clamshell laptop. This example was manufactured in 1910, but is model 1, identical to the 1st ones manufactured. Company name changed from Rose Typewriter company.</td>
<td></td>
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<tr>
<td><img src="image2" alt="Photo" /></td>
<td>Klimax Modell Nr. 4</td>
<td>1919</td>
<td>Helios</td>
<td>2 range keyboard with 3 shift keys – 4 possible characters from each key. Representative of today’s mobile touchscreen keyboards, including the iPhone.</td>
<td></td>
<td></td>
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<tr>
<td><img src="image3" alt="Photo" /></td>
<td>N-Kbd-3</td>
<td>Two Hand Ergonomic Keyboard</td>
<td>(1977) 1994</td>
<td>PCD Maltron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image4" alt="Photo" /></td>
<td>KB1-011</td>
<td>Model 55 ASCII Keyboard</td>
<td>1981</td>
<td>$80</td>
<td>TASA (Touch Activated Switch Arrays)</td>
<td>Note Montgomery swipe keyboard</td>
<td></td>
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</table>

Pivot? | Y | Y |
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Year</th>
<th>Manufacturer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Kbd-06</td>
<td>113 ML1 IR Wireless Keyboard</td>
<td>1984</td>
<td>Metaphor</td>
<td>Accompanied the Metaphor IR Wireless Mouse – the first wireless mouse. This was the second wireless keyboard, following the IBM Freeboard kbd, released earlier the same year, which also used IR.</td>
</tr>
<tr>
<td></td>
<td>TRS-80 Model 100</td>
<td>1984</td>
<td>Tandy Radio Shack</td>
<td></td>
</tr>
<tr>
<td>N-Kbd-1</td>
<td>Model M “Clicky” keyboard</td>
<td>1986</td>
<td>IBM</td>
<td></td>
</tr>
</tbody>
</table>
| N-Kbd 1 | PS/2 Keyboard with Trackball  
| MX 11800  
| 185152-001  
| Rackmount | Compaq | [http://www.overclock.net/t/706002/ compaq-mx11800-review](http://www.overclock.net/t/706002/ compaq-mx11800-review) | N |
| N-Kbd-5 | LT Touchpad Keyboard | KeyTronic | Note: Keytronic released a $399.95 touchpad enhanced kbd, (KB 5153) at 1985 Spring Comdex. See 1985 PC Magazine, 4(14), p. 34. Mag in collection. | N |
| N-Kbd-3 | KEYLESS USB KEYBOARD WITH TOUCHPAD | Cleankeys | Touchfree?  
| | | | Conceptually identical to the earlier TASA keyboard, but with addition of integrated touch pad (which TASA also made, but not integrated with keyboard). | N |
| KB-015 | ToteBoard | 1989 | $495  
| | | | (1989)  
| | | | $395  
<p>| | | | (1992) | nView | IR Wireless Kbd. Unlike previous 2 IR wireless keyboards, the PCjr Freeboard and that from Metaphor, was intended to be used at a longer distance, such as with projectors, or big wall-mounted displays. Note no integrated pointing. | y |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Model Name</th>
<th>Year</th>
<th>Price</th>
<th>Manufacturer</th>
<th>Description</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>N-Kbd-2</td>
<td>Left Hand Ergonomic Keyboard</td>
<td>1989</td>
<td>$515.00</td>
<td>PCD Maltron</td>
<td>One-handed kbd with full character set.</td>
<td>y</td>
</tr>
<tr>
<td>KB-2</td>
<td>DataHand</td>
<td>1990</td>
<td></td>
<td>DataHand Systems Inc.</td>
<td>Each finger “key” is actually 5 (down, N, S, E, W) switches providing access to full QWERTY character set without moving hand. Essentially mechanical radial menus. (In small CARDBOARD BOX)</td>
<td>y</td>
</tr>
<tr>
<td>N-Kbd-4</td>
<td>Adjustable Keyboard</td>
<td>1993</td>
<td>$219</td>
<td>Apple</td>
<td></td>
<td>N</td>
</tr>
<tr>
<td>kB1 x2</td>
<td>Date Entry Keyboard</td>
<td>1993</td>
<td></td>
<td>Matrox (Advanced Input Devices)</td>
<td></td>
<td>N</td>
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<tr>
<td>N-Kbd-05</td>
<td>Model M5-2 Trackball Keyboard</td>
<td>1995</td>
<td>Dell (Lexmark)</td>
<td>Manufactured by Lexmark Is a clicky keyboard. All of the buttons still have their click. The space bar seems to have difficulty going down when you push it from the sides, but it works great when pushed in the center.</td>
<td>N</td>
<td></td>
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</tr>
<tr>
<td>PC-01</td>
<td>&quot;TrackWrite&quot; ThinkPad 701c with Butterfly keyboard</td>
<td>1995</td>
<td>IBM</td>
<td>As lid of laptop opens, keyboard automatically mechanically expands, beyond footprint of laptop itself, thereby enabling compact portability while preserving full-size keyboard.</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>N-Kbd-5</td>
<td>Comfort Keyboard System Ergomagic</td>
<td>1999</td>
<td>$299</td>
<td>Health Care Keyboard Company</td>
<td>Mechanically reconfigurable keyboard in terms of posture, and order of left, right halves of QWERTY and keypad.</td>
<td>N</td>
</tr>
<tr>
<td>N-Kbd-4</td>
<td>Classic</td>
<td>2000</td>
<td>Kinesis</td>
<td>A more affordable keyboard following the Maltron design. Largely a knock-off but with modern manufacturing.</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Product Code</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
<td>Notes</td>
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<tr>
<td>KB1-012</td>
<td>Palm Portable Keyboard</td>
<td>2000</td>
<td>$99.00</td>
<td>Palm</td>
<td>A fold-up full size keyboard for PDAs, yet compact for portability. See IDSA Design Secrets p 148</td>
<td></td>
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<tr>
<td>N-Kbd-2</td>
<td>Office Keyboard</td>
<td>2001</td>
<td>$64.95</td>
<td>Microsoft</td>
<td></td>
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<td>N-Kbd-5</td>
<td>KeyCase</td>
<td>2001</td>
<td>$99.95</td>
<td>Logitech</td>
<td>Designed by IDEO</td>
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<tr>
<td>KB1-018</td>
<td>Half Keyboard</td>
<td>2001</td>
<td>$99.00</td>
<td>Matias</td>
<td>A very compact 1-hand keyboard with full-size keys offering full QWERTY capability by mapping one-half to the QWERTY keys onto the other half, and adding mode switch. Actually worked well and still on market</td>
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<tr>
<td>Model</td>
<td>Type</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
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<td>N-Kbd-2</td>
<td>GoType! Pro</td>
<td>2002</td>
<td>$69.95</td>
<td>LandWare</td>
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<td>TP-02</td>
<td>TouchStream LP</td>
<td>2002</td>
<td>$299</td>
<td>FingerWorks</td>
<td>Was relative to TouchStream Mini? (249?) / LP $339 ?? With stand donated by Sean Gerety, Atlanta GA</td>
<td></td>
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<tr>
<td>N-Kbd-06</td>
<td>SafeType Keyboard Model V801</td>
<td>2002</td>
<td>$295.00</td>
<td>SafeType Inc. (Previously Ergonomic-Interface Keyboard Systems)</td>
<td><a href="http://www.safetype.com">www.safetype.com</a> Perhaps the only keyboard which comes equipped with rear-view mirrors!</td>
<td></td>
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<tr>
<td>N-Kbd-5</td>
<td>OrbiTouch</td>
<td>2002</td>
<td>$695</td>
<td>Blue Orb Inc.</td>
<td>A keyboard without keys. Despite appearance, those are not dials, but large joy-switches. One “types” by the coordinated use of two mechanical radial menus.</td>
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<tr>
<td>KB2-006</td>
<td>Nostromo SpeedPad n50</td>
<td>2002</td>
<td></td>
<td>Belkin</td>
<td>A one-handed keyboard optimized for fast-twitch video-game play.</td>
<td></td>
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<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Brand</td>
<td>Notes</td>
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<tr>
<td>N-Kbd-1</td>
<td>Lifetime Trackball PS2 76079-1 Keyboard Mouse Combo</td>
<td>2003</td>
<td>$99.99</td>
<td>KeyTronic</td>
<td>However, similar model (LT TBALL GVT) available 2001 for same price</td>
<td></td>
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<tr>
<td>N-Kbd-5</td>
<td>DX1 Input System</td>
<td>2004</td>
<td>$149.95</td>
<td>ergodex</td>
<td>A totally user-configurable mechanical keyboard. Keys can be placed anywhere on the surface, a specific function assigned to each, and graphic for labelling, etc. placed under the transparent surface. Announced &amp; preorders 2004. Shipping 2005</td>
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<tr>
<td>KB1-020</td>
<td>Adesso ACK-540UB USB Mini-Touch Keyboard with Touchpad</td>
<td>2005</td>
<td>$59.95</td>
<td>Adesso Inc.</td>
<td></td>
<td></td>
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<tr>
<td>KB2-002</td>
<td>Nostromo n52</td>
<td>2006</td>
<td></td>
<td>Belkin</td>
<td></td>
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<td>N-Kbd-06</td>
<td>iGrip</td>
<td>2006</td>
<td>$99</td>
<td>AlphaGrip</td>
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<td>Model</td>
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<tr>
<td>N-Kbd-5</td>
<td>Model 80 Category 551 Tabletop Version w. Dual 2&quot; DuraTrackballs</td>
<td>Cortron</td>
<td><a href="http://www.cortro">http://www.cortro</a> ninc.com/W80RBTD2-2X.htm SN C98941 Date 1506</td>
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<tr>
<td>KB1-014</td>
<td>AKB13CA - Flexible Mobile Keyboard USB</td>
<td>2007</td>
<td>$19.99</td>
<td>Targus</td>
<td>Rubber roll up Keyboard</td>
<td>y</td>
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<tr>
<td>KB1-013</td>
<td>Fabric Keyboard</td>
<td>2007</td>
<td>$130.00</td>
<td>G-Tech</td>
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<tr>
<td>KB2-003</td>
<td>Laser Key CL-850</td>
<td>2007</td>
<td>Celluon</td>
<td>y</td>
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<td>KB2-005</td>
<td>Flip Keyboard</td>
<td>2009</td>
<td>$146.00</td>
<td>Econo-Keys</td>
<td>y</td>
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<td>Model</td>
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<tr>
<td>KB2-007</td>
<td>Mini Wireless Keyboard N5901</td>
<td>2009</td>
<td></td>
<td>Lenovo</td>
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<tr>
<td>N-Kbd-2</td>
<td>iPad Keyboard Dock</td>
<td>2010</td>
<td>$69.00</td>
<td>Apple</td>
<td>N</td>
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<tr>
<td>N-KB-05</td>
<td>Wedge Mobile Keyboard</td>
<td>2012</td>
<td>$79.95</td>
<td>Microsoft</td>
<td>Pre-production prototype</td>
<td>N</td>
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<tr>
<td>Product Code</td>
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<td>Price</td>
<td>Supplier</td>
<td>Feature</td>
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<tr>
<td>KB1-016</td>
<td>Ultra Mini Keyboard</td>
<td>2010</td>
<td>$59.99</td>
<td>Rii tek</td>
<td>Integrated laser pointer</td>
<td>y</td>
</tr>
<tr>
<td>KB1-017</td>
<td>iPazzPort</td>
<td>2010</td>
<td>$49.00</td>
<td>Unisen Group</td>
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## Handhelds: PDAs, Music Players

<table>
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<tr>
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<th>Name</th>
<th>Year</th>
<th>Price</th>
<th>Company</th>
<th>Notes</th>
<th>Pivot?</th>
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</thead>
<tbody>
<tr>
<td><img src="image1" alt="Handheld" /></td>
<td>HH-02</td>
<td>Mini</td>
<td>1972</td>
<td>$60.00</td>
<td>Casio</td>
<td>Hand-held calculator that broke the price-barrier and brought them into the very affordable (and caused a shake-down in the industry).</td>
<td>N</td>
</tr>
<tr>
<td><img src="image2" alt="Handheld" /></td>
<td>HH-02</td>
<td>Card Time (ST-24)</td>
<td>1978</td>
<td>$39.95</td>
<td>Casio</td>
<td>card-sized calculators. The Mini Card (LC-78, 3.9mm thick) and Card Time (ST-24)</td>
<td>N</td>
</tr>
<tr>
<td><img src="image3" alt="Handheld" /></td>
<td>TC-D5</td>
<td>Stereo Cassette-Corder</td>
<td>1978</td>
<td>$650.00</td>
<td>Sony</td>
<td>Stepping stone to Walkman.</td>
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<td><img src="image4" alt="Handheld" /></td>
<td>MP-01</td>
<td>TCM-600 Cassette-Corder</td>
<td>1978</td>
<td></td>
<td>Sony</td>
<td>Stepping stone to Walkman</td>
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<td><img src="image5" alt="Handheld" /></td>
<td>MP-01</td>
<td>TPS-L2 with Model MDR-3L2 Headphones</td>
<td>1979</td>
<td>$275 ¥33,00</td>
<td>Sony</td>
<td>First Walkman with original headphones</td>
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<td>Model</td>
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<td>Year</td>
<td>Company</td>
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<tr>
<td>G-01</td>
<td>Donkey Kong Game &amp; Watch</td>
<td>1982</td>
<td>Nintendo</td>
<td>Introduced cross-shaped control pad, used in most game controllers since. Compare with DS of 22 years later! 2x LR44 Batteries</td>
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<td>HH-01</td>
<td>Watchman FD-210</td>
<td>1982</td>
<td>Sony</td>
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<td>G-01</td>
<td>Donkey Kong 2 (Jr) Game &amp; Watch</td>
<td>1983</td>
<td>Nintendo</td>
<td>2x LR44 Batteries</td>
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<td>HH-01</td>
<td>DynaTAC 8000M</td>
<td>1983/89</td>
<td>Motorola</td>
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<td>HH-02</td>
<td>Data Bank PF-3000</td>
<td>1983</td>
<td>Casio</td>
<td>Casio’s 1st step beyond calculator to PDA Arguably the first device to qualify as a PDA</td>
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<td>MP-01</td>
<td>Discman D-50</td>
<td>1984</td>
<td>Sony</td>
<td>I think mine is D-90, 1989 Check</td>
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<td>HH-01</td>
<td>Watchman FD-20A</td>
<td>1984</td>
<td>Sony</td>
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<td>HH-02 X2</td>
<td>Data Bank PF-8000</td>
<td>1984</td>
<td>Casio</td>
<td>X 2 stored together</td>
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<td>HH-02</td>
<td>CB-100 Checkbook Electronic Calculator</td>
<td>1985</td>
<td>Casio</td>
<td>(x2: 1 without cover) DP-008</td>
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<td>HH-04</td>
<td>Organizer II Model: CM</td>
<td>1986</td>
<td>Psion</td>
<td>With 32K Datapak In box</td>
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<td>PD-004</td>
<td>IF-8000</td>
<td>1986</td>
<td>Casio</td>
<td></td>
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<td>HH-04</td>
<td>1990</td>
<td></td>
<td>Dycam</td>
<td>First consumer digital camera. 320 x 240 x 8-bit monochrome image. Compatible with Mac and PC. White version sold under license by Logitech as the Fotoman. Stores 32 pictures.</td>
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<td>HH-02</td>
<td>1992</td>
<td>NFS</td>
<td>Xerox PARC</td>
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<td>HH-04</td>
<td>1993</td>
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<td>Apple Computer</td>
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<td>HH-02</td>
<td>GRIDPAD 2390</td>
<td>1993</td>
<td>AST Research Inc</td>
<td></td>
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| HH-01 | Simon x 2      | 1993 | $900.00          | IBM & Bell South
One in original box, the other not. Both in same bin |
| HH-03 | Digital Rolodex EC340 | 1993 | $150.00          | Radio Shack |
| HH-03 | Voice Organizer Model 5200 | 1994 | $179.95          | Voice Powered Technology |
| HH-02 | Newton Message Pad 120 | 1996 | $600.00          | Apple Computer |
| HH-03 | Pilot 5000      | 1996 (March) | $369.00          | Palm (US Robotics)
1000 model with less memory $299.00
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<tr>
<th>Model</th>
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<td>HH-04</td>
<td>Cassiopeia A-10</td>
<td>1997</td>
<td>$499.00</td>
<td>Casio</td>
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<td>MessagePad 2000</td>
<td>1997</td>
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<td>Apple</td>
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<td>HH-02</td>
<td>Series-5 PDA</td>
<td>1997</td>
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<td>Psion</td>
<td>(x2) DP-001</td>
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<td>HH-02</td>
<td>Rolodex REX</td>
<td>1997</td>
<td>$49.99 (?)</td>
<td>Franklin</td>
<td>X2, 2\textsuperscript{nd} in original package</td>
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<td>Brand</td>
<td>Year</td>
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<td>HH-03</td>
<td>Palm Pilot Modem</td>
<td>3Com</td>
<td>1997</td>
<td>$129</td>
<td>Both in same box</td>
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<tr>
<td>MP-02</td>
<td>Words to Go</td>
<td>Audible</td>
<td>1997</td>
<td></td>
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<tr>
<td>HH-03</td>
<td>Palm III</td>
<td>Palm (3Com)</td>
<td>1998</td>
<td>$399.99</td>
<td>1st from Palm Computing division of 3Com. Both in same new box 1st to support beaming</td>
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<td>HH-03</td>
<td>Data Rover 840</td>
<td>General Magic</td>
<td>1998</td>
<td></td>
<td>Magic Cap Software X2</td>
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<td>HH-02</td>
<td>BlackBerry 950 Wireless Handheld</td>
<td>Research in Motion (RIM)</td>
<td>1998</td>
<td></td>
<td>Have 6 units. Only 1 has good screen (one in holster)</td>
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<tr>
<td>MP-01</td>
<td>mpMan Digital Stereo Player</td>
<td>Saehan</td>
<td>1998</td>
<td>$250</td>
<td>1st portable MP3 Player Later licensed to Eiger Labs for NA market 1st shown CEBIT Hannover, March / production in May 98.</td>
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<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Brand</td>
<td>Notes</td>
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<tr>
<td>MP-01</td>
<td>mpMan Digital Stereo Player</td>
<td>1998</td>
<td>$250</td>
<td>Saehan</td>
<td>See previous unit. This is in box, and Eiger-Labs version</td>
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<tr>
<td>MP-01 K2</td>
<td>Rio PMP300</td>
<td>1998</td>
<td>$200</td>
<td>Diamond</td>
<td>2\textsuperscript{nd} portable MP3 player, 1\textsuperscript{st} to get traction Released Sept. 1998 Both in same original.</td>
</tr>
<tr>
<td>HH-02</td>
<td>revo</td>
<td>1999</td>
<td>$399.00</td>
<td>Psion</td>
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<tr>
<td>PD</td>
<td>PalmV</td>
<td>1999</td>
<td>$449.00</td>
<td>3Com</td>
<td><a href="https://the-gadgeteer.com/1999/02/28/palm_v_review/">https://the-gadgeteer.com/1999/02/28/palm_v_review/</a> Packed with Vx</td>
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<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
<td>Link</td>
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<tr>
<td>MP-02</td>
<td>raveMP 2000</td>
<td>1999</td>
<td>$299.00</td>
<td>Sensory Science</td>
<td>First MP3 Player to offer built-in microphone with voice recording.</td>
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<tr>
<td>MP-02</td>
<td>JU-100 Play!</td>
<td>1999</td>
<td>$219.95</td>
<td>i-Jam (Black Rhino)</td>
<td>Small, light, 1&lt;sup&gt;st&lt;/sup&gt; with radio, 1&lt;sup&gt;st&lt;/sup&gt; with colours (5: Black Rhino, Silver Bullet, Lemon Drop, Razz Jazz Red, &amp; Chi-Town Blue)</td>
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<tr>
<td>MP-02</td>
<td>JU-100 Play!</td>
<td>1999</td>
<td>$219.95</td>
<td>i-Jam (Chi-Town Blue)</td>
<td>Small, light, 1&lt;sup&gt;st&lt;/sup&gt; with radio, 1&lt;sup&gt;st&lt;/sup&gt; with colours (5: Black Rhino, Silver Bullet, Lemon Drop, Razz Jazz Red, &amp; Chi-Town Blue)</td>
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<tr>
<td>MP-02</td>
<td>JU-100 Play!</td>
<td>1999</td>
<td>$219.95</td>
<td>i-Jam (Silver Bullet)</td>
<td>Small, light, 1&lt;sup&gt;st&lt;/sup&gt; with radio, 1&lt;sup&gt;st&lt;/sup&gt; with colours (5: Black Rhino, Silver Bullet, Lemon Drop, Razz Jazz Red, &amp; Chi-Town Blue)</td>
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<tr>
<td>MP-01</td>
<td>JU-100 Play!</td>
<td>1999</td>
<td>$219.95</td>
<td>i-Jam (Razz Jazz Red)</td>
<td>Small, light, 1&lt;sup&gt;st&lt;/sup&gt; with radio, 1&lt;sup&gt;st&lt;/sup&gt; with colours (5: Black Rhino, Silver Bullet, Lemon Drop, Razz Jazz Red, &amp; Chi-Town Blue)</td>
</tr>
<tr>
<td>Model</td>
<td>Name</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
<td>Notes</td>
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<td>MP-02</td>
<td>NOMAD</td>
<td>1999</td>
<td>$170 (32MB)</td>
<td>Creative Labs</td>
<td>Released June 1999</td>
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<td>HH-03</td>
<td>CSM 150 Barcode Scanner</td>
<td>2000</td>
<td>$159.00</td>
<td>Symbol</td>
<td>For Handspring</td>
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<td>HH-02</td>
<td>2000</td>
<td>1999</td>
<td>Symbol</td>
<td>x2 (scanner) DP-009</td>
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<td>MP-01</td>
<td>Expanium EXP101 Portable CD/MP3 Player</td>
<td>2000</td>
<td>Philips</td>
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<td>MP-01</td>
<td>Personal Jukebox PJB-100</td>
<td>2000</td>
<td>$799.00</td>
<td>HanGo (Remote Solutions)</td>
<td>First hard-disk based portable Mp3 Player</td>
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<td>HH-03</td>
<td>iPAQ pocket PC Model 3650</td>
<td>2000</td>
<td>(2002?)</td>
<td>Compaq</td>
<td>Packed together. One with “backpack”</td>
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N: New 
Y: Used
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<td>HH-02</td>
<td>Cassiopeia E-115</td>
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<td>Casio</td>
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<td>HH-02</td>
<td>SPT 1700 Terminal</td>
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<td>Symbol</td>
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<td>MP-02</td>
<td>6GB NOMAD Jukebox C</td>
<td>2001</td>
<td>Creative Labs</td>
<td>First disk-based MP3 Player to get traction in market</td>
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<td>PD-011</td>
<td>Palm m500</td>
<td>2001</td>
<td>Palm</td>
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<td>MP-02</td>
<td>SL45</td>
<td>2001</td>
<td>Siemens</td>
<td>First phone with integrated MP3 player</td>
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<td>HH-04</td>
<td>iPAQ H3970</td>
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<td>$750.00</td>
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<td>SPH-A500</td>
<td>Samsung</td>
<td>2003</td>
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<td>MP-01</td>
<td>iPod G1</td>
<td>Oct, 2001</td>
<td>$399.00</td>
<td>Apple</td>
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<td>MP-01</td>
<td>iPod G2</td>
<td>July 2002</td>
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<td>iPod G3</td>
<td>April 2003</td>
<td>$399.00</td>
<td>Apple</td>
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<td>MP-01</td>
<td>iPod G4</td>
<td>July 2004</td>
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<td>iPod Minis, Gold, Pink, Silver, Green, Blue (x2)</td>
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<td>Advantage X7501 Smartphone</td>
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<td>$899.00</td>
<td>HTC</td>
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<td>iPhone (G1)</td>
<td>Intro Jan 2007</td>
<td>$499 4GB, $599 8GB</td>
<td>Apple</td>
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<td>Touch P3450</td>
<td>June 2007</td>
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<td>HTC</td>
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<td>HH-01</td>
<td>N2 Mobile Phone</td>
<td>2007</td>
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<td>Neonode</td>
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<td>HH-02</td>
<td>Rolodex Electronics Organizer Model RK-8203</td>
<td>2008</td>
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<td>Franklin</td>
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<td>X2 With LunaTik</td>
<td>iPod Nano G6</td>
<td>2010</td>
<td>$149 (8GB) / $179 (16GB)</td>
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<td>HH-01</td>
<td>Kin Two (pre-production model)</td>
<td>2010</td>
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<td>Microsoft</td>
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<td>PD-016</td>
<td>UMPC Prototype</td>
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<td>Microsoft</td>
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## e-Readers

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<th>Pivot?</th>
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<td><img src="image1.png" alt="EB-001" /></td>
<td>EB-001</td>
<td>Marvin Minsky's Society of Mind</td>
<td>1994</td>
<td></td>
<td>Voyager</td>
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<td>y</td>
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<td><img src="image2.png" alt="EB" /></td>
<td>EB</td>
<td>Rocket eBook</td>
<td>1998</td>
<td></td>
<td>Franklin (NuvoMedia)</td>
<td>Franklin announced being distributor Jan 1999.</td>
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<td><img src="image3.png" alt="EB-011" /></td>
<td>EB-011</td>
<td>eBookMan EBM-911</td>
<td>1999</td>
<td>$187.00</td>
<td>Franklin</td>
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<td><img src="image4.png" alt="EB-002" /></td>
<td>EB-002</td>
<td>eBook REB 1100</td>
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<td>$300.00</td>
<td>RCA</td>
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<td><img src="image5.png" alt="EB-003" /></td>
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<td>eBook REB 1200</td>
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<td>Price</td>
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<td>EB-004</td>
<td>PRS-500 Personal Reader System</td>
<td>2006</td>
<td>$300.00</td>
<td>Sony</td>
<td></td>
<td>y</td>
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<td>(a)EB-005 (b) PC-07</td>
<td>iLiad</td>
<td>2006</td>
<td>$699.00</td>
<td>iRex</td>
<td>2 units. (b) missing stylus</td>
<td>y</td>
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<td>CyBook Gen 3</td>
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<td>$350.00</td>
<td>Bookeen</td>
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<td>Kindle (G1)</td>
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<td>EB-009</td>
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<td>Kindle Keyboard</td>
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<td>$139.00</td>
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<td>With wifi; Plus 3G was $189.00</td>
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<td>Kindle Lighted Leather Cover</td>
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<td>$59.99</td>
<td>Amazon</td>
<td><a href="https://www.amazon.com/gp/product/B003DZ166Q/?tag=gnlt-20">https://www.amazon.com/gp/product/B003DZ166Q/?tag=gnlt-20</a></td>
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**Pen Computers**

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<td>PC-03</td>
<td>GRiPAD</td>
<td>1910</td>
<td>1989</td>
<td>$2,370</td>
<td>GRiD</td>
<td>The GRiDpad wasn’t the first commercial tablet computer—the Linus WriteTop came earlier—but it was the first to succeed. Designed by Jeff Hawkins, it featured his handwriting recognition software, which led to Graffiti on the PalmPilot.(Computer History Museum)</td>
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<td>Model/ID</td>
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<td>CB-002</td>
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<td>1991</td>
<td>Momenta</td>
<td>Cardboard Box 002</td>
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<td>PC-03</td>
<td>3125 Slate</td>
<td>1991</td>
<td>NCR</td>
<td>GO Operating system (1992) 1st pen computer to run both MS Windows fr Pen Computing &amp; GO OSs</td>
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<td>PC-05</td>
<td>GRiDPad 2050</td>
<td>1992</td>
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<td>PC-03-008(A)</td>
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<td>PC-01-008 (B) is power supply</td>
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<td>GRiDPad 2270</td>
<td>??</td>
<td>GRiD</td>
<td>Superficially same as 2260. Check out differences.</td>
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<td>Fujitsu</td>
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<td>PC-01-001 (A)</td>
<td>Safari 3115</td>
<td>1993</td>
<td>NCR</td>
<td>PC-01-001(B) is power supply x2 DP-005(A) DP-005(B) N</td>
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<td>PCI-03-003 x 2</td>
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<td>Penpoint</td>
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<td>PC-08 X3 +</td>
<td>Desktop Replacement DTR-1</td>
<td>1994</td>
<td>Dauphin</td>
<td>X3 Note: extensive documentation, floppies, and floppy drive with unit 3 in</td>
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<td>PCI-01-001</td>
<td>CruisePAD</td>
<td>1995</td>
<td>Zenith Data Systems</td>
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<td>Forté CommView Win Pen Computer F2154A</td>
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<td>PC-02-002</td>
<td>DATA EATA MD Data PDF-5</td>
<td>1996</td>
<td>Sony</td>
<td>Printer and accessories in same bin</td>
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<td>MT-01</td>
<td>eMate 300</td>
<td>1997</td>
<td>$800</td>
<td>Apple</td>
<td>Was Apple Newton in new skin. 7.5v, 1.2A, C+ X 2 - 2nd in box</td>
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<td>PC-04 x 3</td>
<td>CrossPad XP</td>
<td>1998</td>
<td>$399</td>
<td>AT Cross Company</td>
<td>Original larger version released in 1997. X2 – 2nd unit new in box (donation James Landy) 2 units- (b) is new in box. Donation James Landay</td>
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<td>MT-01</td>
<td>mimio</td>
<td>2000 (or before)</td>
<td></td>
<td>Virtual Ink</td>
<td>Designed by Fitch See Design Secrets: Products, p 170-173.</td>
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<td>PC-04 x 2</td>
<td>TransNote</td>
<td>2001</td>
<td>$3,000</td>
<td>IBM</td>
<td>James Landy donation <a href="http://pencomputing.com/frames/ibm_transnote.html">http://pencomputing.com/frames/ibm_transnote.html</a> x2 PC-04 has all documentation</td>
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<td>PC-02-006</td>
<td>E-Pen USB Version EP-100R</td>
<td>2001</td>
<td>E-Pen InMotion</td>
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<td>型号</td>
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<td>PC-04</td>
<td>Tablet PC Prototype</td>
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<td>Microsoft</td>
<td>Prototype for in-house use of First Gen MS Tablet PC, launched Nov 7, 2002</td>
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<td>InkLink Smart Pad</td>
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<td>LOCATE</td>
<td>Tablet PC TC1000</td>
<td>2002</td>
<td>Compaq</td>
<td>3 units – some branded Hewlett Packard (HP)</td>
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<td>PC-07 X2</td>
<td>Sahara Series Tablet PC</td>
<td>2002</td>
<td>TabletKiosk</td>
<td>Have 2 of this model. 1 Black &amp; 1 white</td>
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<td>PC-07</td>
<td>Sahara Touch-It Slate PC</td>
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<td>TabletKiosk</td>
<td>$1,995 20 V DC 3.25 amp, tip positive</td>
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<td><img src="image1" alt="DesXscape 150DM" /></td>
<td>DesXscape 150DM</td>
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<td>$1185</td>
<td>Philips Consumer Electronics</td>
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<td>PC-02-010 O Personal Digital Pen</td>
<td>2002</td>
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<td>Logitech</td>
<td>Uses Anoto Technology</td>
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<td><img src="image3" alt="PC-04-004" /></td>
<td>PC-04-004 Pen + Mouse</td>
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<td>EPOS</td>
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<td>located in same box as PC-01-009</td>
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<td><img src="image4" alt="PC-01-009" /></td>
<td>PC-01-009 Pen + USB Key</td>
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<td>EPOS</td>
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<td>located in same box as PC-01-004</td>
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<td>PC-07 DigiMemo A502</td>
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<td>ACECAD</td>
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<td>Livescribe echo smartpen</td>
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<td>Flyer</td>
<td>2011</td>
<td>$499.99</td>
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<td>HH-01</td>
<td>Galaxy Note 3</td>
<td>2013</td>
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<td>Samsung</td>
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<td>See also Samsung Gear watch</td>
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<td></td>
<td>Time Computer</td>
<td>1975</td>
<td>$550.00</td>
<td>Pulsar</td>
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<td>Orient</td>
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<td>Quartz Crystron Calculator Watch, Model 49-9315, Calibre: 9130</td>
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<td>LC 914</td>
<td>1978</td>
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<td>Citizen</td>
<td>Citizen Quartz Crystron Calculator Watch, Model 49-9421. Third version of LC-909 released the previous year. Illustrates the speed of innovation/progress in the technology.</td>
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<td>C-801-1</td>
<td>1980</td>
<td>$69.95</td>
<td>Casio</td>
<td>First Casio Calculator Watch Module 133. This is the primary version of this watch. The C-80, which is the same watch in a less expensive case/strap, is to illustrate the “what is a touch interface?” narrative.</td>
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<td>1980</td>
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<td>Casio</td>
<td>First Casio Calculator Watch Module 133. A less expensive (plastic) version of the C-801-1. Intended to be part of the “what is a touch interface?” narrative during exhibitions.</td>
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<td>April 1981, Vol 6, No. 4</td>
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<td>ORCA Industries</td>
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<td>TC-500</td>
<td>Feb 1983</td>
<td>Casio</td>
<td>Casio’s first touch screen calculator watch Module 119</td>
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<td>RF-01-020</td>
<td>AT-550-7</td>
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<td>$99.95</td>
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<td>RF-01-020 AT-550-7</td>
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<td>(x2 working + 3rd for parts)</td>
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<td>Casio</td>
<td>285</td>
<td>Released August 1984, 1st to recognize hand writer words</td>
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<td>Seiko</td>
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<td><img src="image2.png" alt="Image" /></td>
<td>RF-01-023 RC-4400-Pocket-Terminal</td>
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<td><img src="image3.png" alt="Image" /></td>
<td>RC-4000</td>
<td>1985</td>
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<td><img src="image4.png" alt="Image" /></td>
<td>RF-01-024 RC-4000 (Wrist-Mac)</td>
<td>1985</td>
<td>Seiko</td>
<td>(x2: neither working)</td>
<td>y</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>Module 509 Pulse</td>
<td>1987</td>
<td>Casio</td>
<td>Available in either yellow or blue buttons</td>
<td>N</td>
</tr>
</tbody>
</table>

[Available link](http://www.digital-watch.com/DWL/1work/casio-jp-100w/)
<p>| CMD-10 Wrist Remote Controller | 1992 | $90.00 | Casio | Module 1028 | N |
| Data Link Watch | 1994 | $130 | Timex / Microsoft | N |
| RF-01-022 Databank 150 (DBC150) | 1995 | $69.95 | Casio | Module 1477 | y |
| DBC-V500 Module: 1591 | 1999 | | Casio | Built in voice recorder X 2 : one good, other for parts | N |
| PRT-1 GPS PROTREK | 1999 | | Casio | First GPS watch Module 1840 | N |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Year</th>
<th>Price</th>
<th>Brand</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WMP-1V</td>
<td>Wrist Audio Player</td>
<td>March</td>
<td>$249</td>
<td>Casio</td>
<td>First watch MP3 Player</td>
</tr>
<tr>
<td>XQV-1</td>
<td>Wrist Camera Model WQV-1 + optional PC Link Kit</td>
<td>2000</td>
<td>$199</td>
<td>Casio</td>
<td>Module 2220 First camera watch X2 – 2nd has rubber strap X2 2nd black</td>
</tr>
<tr>
<td>FX2008</td>
<td>Wrist PDA FX2008</td>
<td>2005</td>
<td>$249.00</td>
<td>Fossil</td>
<td>PDA on your wrist. Runs Palm OS 4.1.2 but not Graffiti</td>
</tr>
<tr>
<td>---</td>
<td>-----------------</td>
<td>------</td>
<td>--------</td>
<td>-------------------------------------------------</td>
<td>---</td>
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<tr>
<td></td>
<td>LG-GD910</td>
<td>2009</td>
<td>$808 / £500</td>
<td>LG Electronics</td>
<td>N</td>
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<tr>
<td></td>
<td>LunaTik</td>
<td>$129.95</td>
<td>Minimal</td>
<td>Leather Aluminum watch Band wrist Strap for iPod Nano G6</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>Smart Watch 2012</td>
<td>2012</td>
<td>$150</td>
<td>Sony</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>Nike+ FuelBand</td>
<td>2012</td>
<td>$149</td>
<td>Nike</td>
<td>N</td>
</tr>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>Galaxy Gear SM-V700</td>
<td>2013</td>
<td>$299</td>
<td>Samsung</td>
<td>See also Samsung Galaxy note 3 phone</td>
</tr>
<tr>
<td></td>
<td>Pebble</td>
<td>2013</td>
<td>$150</td>
<td>Pebble Technology Corporation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W-02 X2 Band</td>
<td>2014</td>
<td>$199</td>
<td>Microsoft</td>
<td>One Black, other baby blue.</td>
</tr>
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</table>
## Wearables: Gloves, Rings, Heads, etc.

<table>
<thead>
<tr>
<th>Photo</th>
<th>Code</th>
<th>Name</th>
<th>Year</th>
<th>Price</th>
<th>Company</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td><a href="#">Image</a></td>
<td>MP-01</td>
<td>Bone Fone</td>
<td>1979</td>
<td>$69.95</td>
<td>JS&amp;A Group</td>
<td></td>
</tr>
<tr>
<td><a href="#">Image</a></td>
<td>Bone Phone Print Ad</td>
<td>1980</td>
<td></td>
<td></td>
<td></td>
<td>Gary Kelley Art (?)</td>
</tr>
<tr>
<td><a href="#">Image</a></td>
<td>WH-01 (1 of 2)</td>
<td>HeadMaster View Control System (VCS)</td>
<td>1985</td>
<td>$199</td>
<td>Personics</td>
<td>WH-01 unit in box with puff tube, etc.,</td>
</tr>
<tr>
<td><a href="#">Image</a></td>
<td>MS-002 (2 of 2)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><a href="#">Image</a></td>
<td>MP-01</td>
<td>Liveboard Communicator</td>
<td>1989</td>
<td>NFS</td>
<td>Xerox PARC</td>
<td>My liveboard scarf</td>
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<tr>
<td>Model</td>
<td>Company</td>
<td>Year</td>
<td>Price</td>
<td>Features</td>
<td></td>
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<tr>
<td>MT-01</td>
<td>Virtual</td>
<td>Spectrum Ring Mouse</td>
<td>1994</td>
<td>Kantek Inc.</td>
<td></td>
<td></td>
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<tr>
<td>GF-01</td>
<td>Virtual</td>
<td>Bin-4 I Glasses</td>
<td>1994</td>
<td>$599.00 Virtual I/O</td>
<td>Personal Display System</td>
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<tr>
<td>MT-01</td>
<td>Reality Quest</td>
<td>The Glove</td>
<td>1997</td>
<td>Reality Quest</td>
<td></td>
<td></td>
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<tr>
<td>Code</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Vendor</td>
<td>URL</td>
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<tr>
<td>WH-01</td>
<td>EPOC Neuroheadset</td>
<td>2008</td>
<td>$299</td>
<td>Emotiv</td>
<td>Seems like it may not have shipped until 2010. Check.</td>
<td></td>
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<tr>
<td>MT-01</td>
<td>3D Optical Mouse: The Lord of the Rings</td>
<td>2008</td>
<td></td>
<td>HDE</td>
<td></td>
<td></td>
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<tr>
<td>MT-01</td>
<td>CHAMS Gloves</td>
<td>2010</td>
<td>$12.99</td>
<td>Smart Touch</td>
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<tr>
<td>Code</td>
<td>Name</td>
<td>Manufacturer</td>
<td>Year</td>
<td>Price (in dollars)</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>------</td>
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<td>------</td>
<td>-------------------</td>
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<td></td>
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<tr>
<td>WH-01</td>
<td>Google Glass V2.0 XE-C Tangerine w/ Active Shade</td>
<td>Google</td>
<td>2013 (2014 public)</td>
<td>$1,500</td>
<td></td>
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<tr>
<td>MT-01 GF-01</td>
<td>Wireless Ring Mouse</td>
<td>Genius</td>
<td>2011</td>
<td>$69.99</td>
<td>“Wireless Thumb Cursor Controller”</td>
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<tr>
<td>MT-01 GF-01</td>
<td>hi-Call Bluetooth Talking Glove</td>
<td>hi-Fun</td>
<td>2012</td>
<td>$69.99</td>
<td></td>
<td></td>
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<tr>
<td>MT-01 GF-01</td>
<td>Mycestro-001</td>
<td>Innovative Devices Inc</td>
<td>2014</td>
<td>$149.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rift Development Kit DK 1</td>
<td>Oculus</td>
<td></td>
<td>2014</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>WHO-1</td>
<td>Soundscape Prototype Headphones</td>
<td>Microsoft / Aftershox</td>
<td>2014</td>
<td></td>
<td>Commercially available “bone conduction” non-occluding headphones, augmented by an IMU (i.e., integrated accelerometer, gyro and compass) To sense head movement</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
<td>Notes</td>
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<td></td>
<td><a href="https://www.wired.com/2015/12/avegant-glyph-is-a-different-kind-of-face">https://www.wired.com/2015/12/avegant-glyph-is-a-different-kind-of-face</a></td>
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<td><a href="https://www.engadget.com/2015/03/05/avegant-glyph-video-headset/">https://www.engadget.com/2015/03/05/avegant-glyph-video-headset/</a></td>
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</tr>
<tr>
<td>WH-01</td>
<td>Insight</td>
<td>2015</td>
<td>$299.00</td>
<td>Emotiv</td>
<td>5 Channel mobile EEG</td>
<td></td>
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<tr>
<td>WH-01 x2</td>
<td>Cardboard</td>
<td>2015</td>
<td>$5.00</td>
<td>Google</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MP-02</td>
<td>The Dash</td>
<td>2015</td>
<td>$299.00</td>
<td>Bragi</td>
<td>Important step in the evolution of mobile music players as The Dash earbuds. (with the additional capability of functioning as wireless earbuds).</td>
<td></td>
</tr>
<tr>
<td>MT-01</td>
<td>Bin-4</td>
<td>2015</td>
<td></td>
<td>Beartek</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bin-4</td>
<td>View-Master Deluxe VR Viewer</td>
<td>2016</td>
<td>$29.99</td>
<td>Mattel</td>
<td>Is essentially an enhanced Google Cardboard with a twist. May have been released Oct 2015</td>
<td></td>
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</tbody>
</table>
### Hacking Stem Glove

<table>
<thead>
<tr>
<th>Code</th>
<th>Company</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MT-01</td>
<td>Orii</td>
<td>Voice Powered Ring</td>
</tr>
<tr>
<td>GF-01</td>
<td></td>
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</tbody>
</table>

### Pedals

<table>
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<tr>
<th>Photo</th>
<th>Code</th>
<th>Name</th>
<th>Year</th>
<th>Price</th>
<th>Company</th>
<th>Notes</th>
<th>Pivot?</th>
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<tbody>
<tr>
<td><img src="image1.jpg" alt="Photo" /></td>
<td>EB-011</td>
<td>Transcription Control Pedals</td>
<td></td>
<td></td>
<td>Infinity</td>
<td></td>
<td>y</td>
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<td><img src="image2.jpg" alt="Photo" /></td>
<td>EB-012</td>
<td>FootMouse</td>
<td>1984</td>
<td>$149</td>
<td>Versatron</td>
<td></td>
<td>y</td>
</tr>
<tr>
<td></td>
<td>Product</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
<td>To Order</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>--------</td>
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<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>PC-Pedal</td>
<td>1985</td>
<td>$79.95</td>
<td>Brown &amp; Company</td>
<td>To Order</td>
<td></td>
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<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>EB-013 No Hands Mouse</td>
<td>2009</td>
<td>$349</td>
<td>Hunter Digital</td>
<td>y</td>
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<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>EB-014 USB Foot Switch</td>
<td></td>
<td></td>
<td>Unknown</td>
<td>y</td>
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<tr>
<td>Photo</td>
<td>Code</td>
<td>Name</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
<td>Notes</td>
<td>Pivot?</td>
</tr>
<tr>
<td>-------</td>
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<tr>
<td><img src="image1.jpg" alt="Image" /></td>
<td>Odyssey</td>
<td>1972</td>
<td>$100</td>
<td>Magnavox</td>
<td>First home game console. No sound. Power: 9v DC, 40 mA or 6 C-cell batteries</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td><img src="image2.jpg" alt="Image" /></td>
<td>Odyssey Shooting Gallery</td>
<td>1972</td>
<td></td>
<td>Magnavox</td>
<td>First lightgun for a home video game system</td>
<td>N</td>
<td></td>
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<tr>
<td><img src="image4.jpg" alt="Image" /></td>
<td>2600 Home Video Game Console</td>
<td>1977</td>
<td>$199.00</td>
<td>Atari</td>
<td>Discontinued Jan 1983</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Brand</td>
<td>Model</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
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<tr>
<td>G-09</td>
<td>Intellivision</td>
<td>1980</td>
<td>$299.00</td>
<td>Mattel Electronics</td>
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<td>G-09</td>
<td>FAMICOM Game System</td>
<td>1983</td>
<td></td>
<td></td>
<td>Nintendo (Famicom)</td>
<td></td>
<td></td>
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<tr>
<td>G-01</td>
<td>Famicom Video Shooting HVC-005</td>
<td>1984 (Feb.)</td>
<td></td>
<td></td>
<td>Nintendo (Famicom)</td>
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<tr>
<td>G-01</td>
<td>ZAPPER Gun Game Controller</td>
<td>1985</td>
<td></td>
<td></td>
<td>Nintendo</td>
<td></td>
<td></td>
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<tr>
<td>G-09</td>
<td>Nintendo Entertainment System (NES) Console</td>
<td>1985</td>
<td></td>
<td></td>
<td>Nintendo</td>
<td></td>
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</table>

F-09 FAMICOM
Game System
1983
Nintendo (Famicom)
Japanese version. Released in different version in 1985 as NES – Nintendo Entertainment System. To best of knowledge, first of now standard stand-alone controllers which are held in two hands and operated by the thumbs.

**Power Adaptor:** 10 VDC 850 maP (-) pole

G-01 Famicom Video Shooting HVC-005
1984 (Feb.)
Nintendo (Famicom)
Japanese predecessor to NES Zapper.
Game: Wild Gunman
a.k.a. Beam Gun?

G-01 ZAPPER Gun Game Controller
1985
Nintendo
For NES system.
Repackaging of Famicom Video Shooting / Beam Gun for US market.

G-09 Nintendo Entertainment System (NES) Console
1985
Nintendo
Power supply, TV adaptor, 6 games

**Power Adaptor:** 9 VAC 1.3 A
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Device</th>
<th>Year</th>
<th>Manufacturer</th>
<th>Notes</th>
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<tbody>
<tr>
<td>G-02 G-09</td>
<td>NES-004 Game Controller</td>
<td>1985</td>
<td>Nintendo</td>
<td>Have 2, one to be used with Mother Ship. One in G-09 with MES Machine.</td>
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<tr>
<td>G-01</td>
<td>Mother Ship</td>
<td>1985</td>
<td>Suncom</td>
<td>For Nintendo NES controllers.</td>
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<tr>
<td>G-04 (X2)</td>
<td>Power Pad</td>
<td>1988</td>
<td>Nintendo</td>
<td>X2</td>
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<td>RF001 G-01</td>
<td>Power Glove</td>
<td>1989</td>
<td>Mattel</td>
<td>$75</td>
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<tr>
<td>G-04</td>
<td>Roll &amp; Rocker</td>
<td>1989</td>
<td>LJN Toys</td>
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<tr>
<td>G-02</td>
<td>Channel F Fairchild Video Entertainment System Controller</td>
<td></td>
<td>Fairchild</td>
<td>2 per unit $169.95 for console</td>
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<tr>
<td>G-02</td>
<td>CX 40 Joystick</td>
<td>1977</td>
<td>Atari</td>
<td>Atari 2600 (VCS) $199.00</td>
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<td>G-02</td>
<td>Video Command</td>
<td>1982?</td>
<td>Atari (Zircon?)</td>
<td>Fairchild Channel F controller</td>
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<td>G-01</td>
<td>Ergostick</td>
<td>1988</td>
<td>WICO</td>
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<td>Product</td>
<td>Year</td>
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<td>Manufacturer</td>
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<td>G-02</td>
<td>Powerplayer</td>
<td>1988</td>
<td></td>
<td>Mindscape, Inc., 3444 Dundee Road, Northbrook, IL 60062.</td>
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<tr>
<td>G-02</td>
<td>CX30 Paddles</td>
<td>1977</td>
<td>$21.95</td>
<td>Atari</td>
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<td>G-03</td>
<td>Trak-Ball</td>
<td>1983</td>
<td></td>
<td>Atari</td>
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<td>G-02</td>
<td>CX-24 Pro-Line</td>
<td>1984</td>
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<td>Atari</td>
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<tr>
<td>G-02</td>
<td>Quickshot 1</td>
<td>1982</td>
<td></td>
<td>Spectravideo for Atari 2600 VGS. 1st ergonomic joystick for games.</td>
</tr>
<tr>
<td>Code</td>
<td>Model</td>
<td>Year</td>
<td>Price</td>
<td>Manufacturer</td>
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<tr>
<td>G-02</td>
<td>Archer Quickshot 1</td>
<td>1982</td>
<td>Tandy</td>
<td>Rebranded version of Spectravideo Quickshot</td>
</tr>
<tr>
<td>G-02</td>
<td>PointMaster</td>
<td>1983</td>
<td>$19.95</td>
<td>Discwasher</td>
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<tr>
<td>G-02</td>
<td>Gemstik VG170B</td>
<td>1984</td>
<td>$7.99</td>
<td>Gemini Industries</td>
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<tr>
<td>G-01</td>
<td>Stick Stand</td>
<td></td>
<td>K Byte</td>
<td>For Atari 2600</td>
</tr>
<tr>
<td>G-01</td>
<td>QuickShot XXI Deluxe Joyball Controller</td>
<td></td>
<td>Spectravideo</td>
<td>The IX version from 1983. 'ball' is not a complete sphere, merely a large dome attached to a switching mechanism that slides forward, backward, left, and right. The Quickshot can be changed fro right to left hand use via a slider switch on the side of the unit.</td>
</tr>
<tr>
<td>Model</td>
<td>Product</td>
<td>Year</td>
<td>Price</td>
<td>Company</td>
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<td>JS-005</td>
<td>U-Force X2</td>
<td>1989</td>
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<td>G-07</td>
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<td>JS-02</td>
<td>SideWinder 3D Pro</td>
<td>1995</td>
<td>$59.95</td>
<td>Microsoft</td>
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| G-02X2| Spaceorb 360       | 1996 | $99.00| Spacetec IMC Corp.| Make sure to include in spacebal / space mouse chronology
<p>|       |                    |      |       |                  | 2ND UNIT IN BOX WITH MANUAL, ETC          |
| G-03  | Furby              | 1998 | $35.00| Tiger Electronics|                                            |
| G-05  | b Force-Feedback Wheel | 1998 |       | Microsoft        | Fi                                        |</p>
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<th>Description</th>
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<th>Price</th>
<th>Brand</th>
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| G-06 CB Box | WingMan Formula Force Racing Realistic PC Racing System | 2000 | | Logitech | Designed by IDEO San Francisco  
See details in Design Secrets: Products 100-103  
New in box |
| PCI-03-004 | P5 3D Game Controller Virtual Glove | 2001 | $149.00 | Essential Reality | (x3): 1  
- DP-010 x1 (no box)  
- G-08 x 2 (both in box) |
<p>| In studies in own box | Falcon 3D Force Feedback Game Controller | | | Novint Technologies | |
| | Guitar Hero Controller | 2005 | | RedOctane | |</p>
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<td>Xbox 360 Wireless Controller</td>
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<td>TB-001</td>
<td>Gametrak JS-02</td>
<td>2006</td>
<td>Mad Katz Inc.</td>
<td>Y For Real World Golf game. X2</td>
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<td>Kinect Prototype Archive 2-5</td>
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<td>Kinect Prototype Beta DK TAF-04 with Agra</td>
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<td>Slate Clip-On Controllers</td>
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<td>John Helmes</td>
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### Remote Controls

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<td>N/A</td>
<td>Saturday Evening Post</td>
<td>Philco Advertisement (February 18, 1939, p. 3)</td>
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<td>Saturday Evening Post</td>
<td>Philco Advertisement (December 9, 1939)</td>
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<td>Tele-Zoom TV Remote Control</td>
<td>1949</td>
<td>Garod</td>
<td>First TV remote control (contrary to conventional wisdom)</td>
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<td>RC-01</td>
<td>Lazy Bones Remote Control</td>
<td>1950</td>
<td>$30.00</td>
<td>Zenith</td>
<td>Second (but often claimed to be 1\textsuperscript{st} TV remote. But was first remote channel changer</td>
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<td>Relates to design of Zenith FlashMatic Remote control</td>
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<td>Test Generator for Discriminator Alignment S40466</td>
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<td>RMT-V5A Space Control</td>
<td>1990</td>
<td>Sony</td>
<td>(x2) Came with Sony Video Cassette Recorder SLV-R5UC</td>
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<td>RC-01X2</td>
<td>RM-V30 Remote Commander</td>
<td>1994</td>
<td>Sony</td>
<td>Use as reference object for Rock’n Mouse 2nd in original packaging</td>
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<td>Pronto TS1000</td>
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<td>Philips</td>
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### Dials

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<td><img src="image1" alt="In small transparent plastic bin" /></td>
<td>50AL</td>
<td>“Candlestick” Dial Phone</td>
<td>1919</td>
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<td>Western Electric</td>
<td>First Western electric dial phone</td>
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<td><img src="image2" alt="D-01" /></td>
<td>Model 302 Rotary Dial Phone</td>
<td>1937</td>
<td></td>
<td>Western Electric</td>
<td>Designed by Henry Dreyfuss First Western Electric integrated dial phone. Relate to 1939 Philco Mystery Control, the 1st wireless radio remote control.</td>
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<td>~1937</td>
<td>How to Use the Dial Telephone</td>
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<td>Michigan Telephone</td>
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<td>First wireless remote control for radios (Duplicate entry)</td>
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<td><img src="image1" alt="Chronotherm Ad from Sat. Evening Post" /></td>
<td>Chronotherm Ad from Sat. Evening Post</td>
<td>1947</td>
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<td>Honeywell</td>
<td>Example of thermostat design prior to Dreyfuss’ round Filed with D-01</td>
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<td><img src="image2" alt="Honeywell Round, T86 Thermostat" /></td>
<td>The Honeywell Round, T86 Thermostat</td>
<td>1953</td>
<td>$12.80</td>
<td>Honeywell</td>
<td>• T86 was original. • Was reference design for Nest Thermostat • Dreyfuss design</td>
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<td><img src="image3" alt="Honeywell Round, T86 Thermostat Advert" /></td>
<td>Honeywell Round, T86 Thermostat Advert</td>
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<td>Honeywell</td>
<td>Life Magazine, Nov. 9, 1954, pp. 84-85 Also in Saturday Evening Post</td>
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<td>LogiCad3D / 3Dconnexion</td>
<td>Rebranded SpaceMouse in 2003</td>
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<td>With DOS Disks</td>
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<td>1983</td>
<td>$2,795</td>
<td>Hewlett Packard (HP)</td>
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<td>PC Convertible Model 5140</td>
<td>$1,995</td>
<td>1986</td>
<td>IBM</td>
<td>1st IBM • Laptop • PC to run on batteries • To have 3.5” floppy drive(s) • Convertible – snap-on printer • First to use 3 ½” floppys • Convertible SMDs, ..</td>
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<td>PC-05 GRiDCASE 1550sx</td>
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<td>1990</td>
<td>GRiD</td>
<td>the first portable PC to be designed specifically to operate the MSWindows environment. Other firsts included optional CDROM and Gas Plasma VGA Display.</td>
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<td>MM16 MIDI Manager Control</td>
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<td>Donation of Penny+Giles (Andrew Clarke) Uses 16 P+G PGF7000 Endless Belt Digital Controller. Compare to UofT slider Box and TASA Ferinstat</td>
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<td>MS-003 ScanMan Handheld Scanner</td>
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<td>Logitech</td>
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<td>1994</td>
<td>Apple</td>
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<td>camera</td>
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<td>MS-009</td>
<td>FM³ MIDI Mixer</td>
<td>1996</td>
<td>JL Cooper</td>
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<tr>
<td>Model</td>
<td>Description</td>
<td>Year</td>
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<td>MS-010 BB³ MIDI Transport Controller</td>
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<td>Black Clysdale Case Monkey</td>
<td>1990</td>
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<td>Digital Image Design (DID)</td>
<td>Design by Brad Paley. Donated by Autodesk Research</td>
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<td>CoolPix 100</td>
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<td>Nikon</td>
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<td>27 EXP Power Flash 1X Use Disposable Camera</td>
<td>2010</td>
<td>CVS</td>
<td>N</td>
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<td>MS-001</td>
<td>iMac G5 Poster</td>
<td>August 2004</td>
<td>Apple</td>
<td>“From the creators of the iPod” (Note: the Apple II was launched in 1977)</td>
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<td>MS012(A)</td>
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<td>Redfly Mobile Companion C8</td>
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<td>$399</td>
<td>Celio Corp.</td>
<td>Price dropped to $299, and then $199. But remember, the iPhone!</td>
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<td>Olympic Memory Stick Thumb Drive</td>
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|   | NomusNavigator | 2010 | ??? | Sun-Flex | See also
- Contour Roller-Mouse
- GRiDCASE 1550sx with Alps Isopoint |
<p>| RF-01 | iPad (G1) | 2010 |   | Apple | Box in Bin. iPad in use | Y |</p>
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<tr>
<th>PC-02-007</th>
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<td>Code</td>
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<td>Brewster Pattern Lenticular Stereoscope</td>
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<td><a href="117x299">Image</a></td>
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<td><a href="84x219">Image</a></td>
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<td>In greenbinder</td>
<td>The Upper Yellowstone Falls</td>
<td>1872</td>
<td>Thomas Moran</td>
<td>From 1872 Hayden Expedition</td>
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<td>Stenograph Ad from Saturday Evening Post, Nov. 29, 1913, p. 51. 26.5 x 35 mm / 10.5” x 13.75”</td>
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<td>Price included matching case. Was coloured version of Vest Pocket Kodak Series III.</td>
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<td>Description</td>
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<td>Scribner’s, Oct. 1928</td>
<td>Advertisement for the Vanity Kodak, featuring the “Redbreast” (Red) model</td>
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<td>Image</td>
<td>Model</td>
<td>Year</td>
<td>Model</td>
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<td><img src="image2" alt="Vanity Kodak Sea Gull (Gray) Ad" /></td>
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<td><img src="image5" alt="Lazy-X Radio Ad" /></td>
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<td>Bin-4</td>
<td>View-Master Model A</td>
<td>1939</td>
<td>$1.50</td>
<td>Used film strips. Enabled narrative through sequencing 35mm meant large Strips awkward and fragile. But fragile film protected in round compact cardboard protector, which automatically cued sequence for replay at end.</td>
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<td>Bin-4</td>
<td>Tru-Vue Viewer</td>
<td>1933</td>
<td>Tru-Vue Co.</td>
<td>Used film strips. Enabled narrative through sequencing 35mm meant large Strips awkward and fragile.</td>
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<td>PERKINS BRAILLER</td>
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<td>Perkins School for the Blind</td>
<td>1st shown in 1939; however, WWII delayed production until 1951. Production continued through 2008.</td>
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<td><img src="image" alt="Bin-4 Viewmailer" /></td>
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<td>Find mine! <a href="https://en.wikipedia.org/wiki/Photo_CD">https://en.wikipedia.org/wiki/Photo_CD</a> The 1993 Apple Color Printer was their 1st inkjet color printer / Quicktake 1994 ColorOne Scanner 1991 was first Apple color scanner 1st gen display: Monitor 100 (max 560x192). Only 1998, late 3rd generation, that G3 All-in-One started to get reasonable 1024x768 (still low by today's standards).</td>
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<td>Odyssey Atlasphere</td>
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