X-keys® MWII Stick USB Specifications (XKS-79-USB-R)

- *16 Programmable Keys*
- *Clear, removable key caps for applying and changing legends*
- *Includes X-keys MacroWorks II Software*
- *Low profile tactile feel switches*
- *LED Backlighting*

The *X-keys® MWII Stick* uses X-keys MacroWorks II software to record key commands from the keyboard and send them to applications on the computer. Any sequence or combination of keystrokes from a standard keyboard may be assigned to any key on the X-keys. Mouse commands (click & scroll) may also be programmed. Simple, intuitive steps allow even non-technical users to program the X-keys instantly. Programming files may easily be copied and shared.

The USB X-keys may also be operated in Memory Resident Mode, saving all programming in an onboard non-volatile memory and emulating the PC keyboard port (PS/2) version of the X-keys.

Specifications

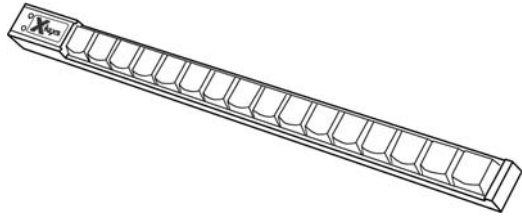|	
Operating System	**WINDOWS:** *2000, XP, Vista* **MAC:** *OSX*
Included Software	**WINDOWS:** MacroWorks II **MAC:** iKey for X-keys (Mac)
Switch Type	Low profile tactile feel, ¾" (19 mm) on center
Number of Keys	16 single keys -- with second layer: 30 programmable keys
Key Cap Type	5/8" (16 mm) sq. w/removable clear caps for easy labeling
Connector	USB "A"
Dimensions	14¼" x ⅞" x ⅝", (362 mm x 23 mm x 18 mm)
Weight	0.42 lbs. (0.19 kg)
Power Source	USB port, nominal voltage = 5 vdc
Power Consumption	Low power USB device – with backlighting off: less than 15 ma @ 5 vdc -- with backlighting on: less than 45 ma @ 5 vdc
Certifications	FCC class B, CE

In Boot Mode

Hardware System	Any architecture supporting USB, including Sun, SGI, and HP workstations
Operating System	Programming requires MacroWorks II software for Windows 2000, XP & Vista. Operates on any OS supporting USB including Unix, Sun and Mac OS-X
Memory Capacity	Each key is allocated 3 characters and a pool of 1000 additional keystrokes is available to any keys that require additional characters
Memory Type	EEPROM, non volatile memory (X-keys retains memory for over 200 years)
Number of Layers	2 layers – user selectable toggle and/or shift keys

Specifications subject to change without notice

scanmagnetics .com

X-keys ® *Stick*   PS/2 Programmable Keypad   (XKS-80-PS2)

- ◆ Add 16 programmable function keys to your keyboard
- ◆ Reduce complex and repetitive keyboard tasks to a single keystroke
- ◆ Store and accurately recall frequently typed information like names, addresses, and numbers

The *X-keys Stick* sends key commands to your computer like a standard keyboard. Any sequence or combination of keystrokes from a standard keyboard may be assigned to any key on the X-keys. Simple, intuitive steps allow even non-technical users to program the X-keys. A slide switch puts the X-keys into programming mode, the user taps the key to be programmed, enters the keystrokes/commands to be saved, taps the key on the X-keys to confirm, and slides the switch back to operating position.

Keys may be instantly reprogrammed. The clear key caps snap off for applying and changing key legends. No residual files are left on the computer. The X-keys stores scan codes in its internal memory and may be programmed on one system and used on another. A USB version of the X-keys Stick is also available.

Specifications

Hardware System	Any architecture with AT or PS/2 keyboard port, using scan codes 2 or 3
Operating System	All OS supporting PC type keyboards
Software	No drivers or special applications required
Memory Capacity	Each key is allocated 3 characters and a pool of 1000 additional keystrokes is available to any keys that require additional characters
Memory Type	EEPROM, non volatile memory (X-keys retains memory for over 200 years)
Switch Type	Low profile tactile feel, ¾" (19 mm) on center
Number of Keys	16 single keys -- with second layer: 30 programmable keys
Number of Layers	2 layers – user selectable toggle and/or shift keys
Key Cap Type	5/8" (16 mm) sq. w/removable clear caps for easy labeling
Connector	Mini-DIN 6-pin designed to pass through the main keyboard
Dimensions	14¼" x ⅞" x ⅝", (362 mm x 23 mm x 18 mm)
Weight	0.42 lbs. (0.19 kg)
Power Consumption	Low power device -- with backlighting off: less than 25 ma @ 5 vdc -- with backlighting on: less than 45 ma @ 5 vdc
Power Source	Keyboard port power, nominal voltage = 5 vcd
Certifications	FCC class B, CE

Specifications subject to change without notice

scanmagnetics.com

Box Contents – This package contains : 1- X-keys Device, 1- Installation CD, 1- Product Ma nual (this page), 2 - Vertical Double-keys, 1 - Horizontal Double-key, 1 - Key-pul ler, 1- Preprinted Legend Sheet and 1- Blank Legend Sheet.

X-keys USB – Quick Start

Run the installation program from the enclosed disc before plugging in your X-keys Desktop. After installation, the X-keys MWII Icon will appear in your Windows Taskbar. Plug in the X-keys and wait for Windows New Hardware Wizard to complete the installation.

Watch the demonstration video and tutorials on the installation disc or consult the MWII Help Menu for more tips and information.

Should you encounter difficulty installing any of our X-keys products, please check the troubleshooting guide on our web site (www.xkeys.com). If this does not resolve the issue, you may E-mail our technical support department: tech@xkeys.com or call our support desk: (517) 655-5523.

Compatibility – X-keys USB devices require MacroWorks II for Windows 2000, XP, and Vista. For older versions of Windows, please refer to our website (xkeys.com). For mac OS-X we offer iKey for X-keys software. Both programs are included on the installation disk and are free of charge. X-keys USB devices also have a "Boot Mode" which gives them the ability to mimic a USB keyboard and mouse on any USB enabled operating system (including Linux) after they have been programmed. Learn more about Boot Mode on our web site (www.xkeys.com) or contact our Technical Support Department: tech@xkeys.com.

Identifying the Keys – The sticker sheet included with your X-keys is provided for hand written legends. The keycaps snap off with a fingernail or small screwdriver. Apply the label under the keycap, and replace it. To print legends on a laser or inkjet printer, go to our web site (www.xkeys.com) for templates formatted for popular applications. The key caps hold a legend 0.575" wide and 0.5" high (14.6mm x 12.7mm).

Other Products by P.I. Engineering

X-keys® (xkeys.com)	Y-mouse® (ymouse.com)	RailDriver™ (raildriver.com)
• PS/2 Programmable Devices	• Dual Mouse Adapter	• Desktop Train Cab Controller
• Custom USB Input Hardware	• Dual Keyboard Adapter	• TrainMaster™ Simulation Software
• Professional Engineering Solutions	• Dual Monitor Adapter	• Historic Railroad Cyclopedias
• Software Developer Support	• PS/2 to USB Adapter	• Full Sized Control Components

How to Contact Us

Scanmagnetics oy | Finland | Tel : 09 271 2200 | Fax: 09 271 2210 | Eml: xkeys @ scanmagnetics.com

FCC Declaration of Conformity

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC Tested to Comply With FCC Standards
FOR HOME OR OFFICE USE

scanmagnetics.com

X-keys ®

USB Programmable Devices
Product Manual for USB X-keys

Stick
16 Keys

Designed, Maufactured and Sold by: P.I. ENGINEERING "The No Slogan Company"

P.I. Part # 1754

LIMITED WARRANTY -- For all X-keys products purchased and installed in the United States and Canada, P.I. Engineering warrants that the X-keys product will be free from defects in materials and workmanship under normal use and service, and will meet the specifications presented by P.I. Engineering at the time of original purchase, for one year as evidenced by a copy of the purchase receipt. Under this warranty, P.I. Engineering will, at its sole option, repair or replace any X-keys product which is defective, provided that you are responsible for (i) the cost of transportation of the product to P.I. Engineering or its designated service facility, and (ii) any loss or damage to the product resulting from such transportation.

Upon discovery of a defect in the product within the Warranty Period, you should notify P.I. Engineering Technical Support via telephone to obtain an RMA (return authorization number) and instructions for shipping the product to a service location designated by P.I. Engineering. You should send the product, shipping charges prepaid, to the designated location, accompanied by the return authorization number, your name, address, and telephone number, proof of purchase, and a description of the defect. P.I. Engineering will pay for return of product(s) to the customer.

P.I. Engineering shall have no responsibility to repair or replace the X-keys product if the failure has resulted from accident, abuse, mutilation, misuse, or repair/modification performed by any entity other than P.I. Engineering.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, WHETHER EXPRESSED, IMPLIED, OR STATUTORY. P.I. ENGINEERING DOES NOT WARRANT THIS X-keys PRODUCT FOR FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. P.I. ENGINEERING AND ITS EMPLOYEES SHALL NOT BE HELD LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES, EVEN IF ADVISED OF THEIR POSSIBILITY, ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT. SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATION OF CERTAIN LIABILITIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE.

In the event that the above limitations are held unenforceable, P.I. Engineering's liability for any damages to you or to any party shall not exceed the purchase price you paid, regardless of the form of any claim.

This limited warranty is valid for and only applies to products purchased and used inside the United States (and its territories) and Canada.

This limited warranty is governed by the laws of the United States of America and the state of Michigan.

X-keys Electronic design: P.I. Engineering, Inc., Williamston, Michigan
X-keys Pro & Desktop industrial design: Rienhold W eiss Design, Chicago, Illinois
Patent # 4964075

© 2007 P.I. Engineering, Inc. All rights reserved.

Y-mouse , Y-see two , Y-key key , X-keys , and the "P.I. Eclipse" are trademarks of P.I. Engin eering, Inc.
PS/2 is a registered trademark of International Bus iness Machines, Inc.
All other trademarks are property of their respecti ve owners.

www.piengineering.com   www.xkeys.com   www.ymo   use.com   www.raildriver.com