X-keys® MWII Switch Interface (XSI-38-US-R)

USB Specifications

- *Includes X-keys MacroWorks II Software*
- *Rugged construction*
- *Program switches to perform mouse functions*
- *12 inputs for industry standard 3.5mm mono plugs*
- *Also includes a 25 pin socket*

The Using the same reliable hardware as our **X-keys® Programmable Keyboards**, the **X-keys® Switch Interface** 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, shared, and locked to prevent alteration.

The USB X-keys may also be operated in Boot Mode, saving all programming in an onboard non-volatile memory.
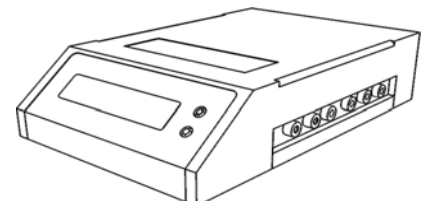
Specifications

Operating System	**WINDOWS:** *2000, XP, Vista* **MAC:** *OSX*
Included Software	**WINDOWS:** MacroWorks II **MAC:** iKey for X-keys (Mac)
Number of Inputs	12 mono jacks
Input Connector	3.5 mm mono plug (Not Included)
Output Connector	USB "A" Plug
Dimensions	4.5" x 3.125" x 1.25", (115 mm x 80 mm x 32 mm)
Weight	6.8 oz. (210 g)
Power Source	USB port, nominal voltage = 5 vdc
Power Consumption	Low power USB device: less than 15 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 matrix point is allocated 3 characters and a pool of 1060 additional keystrokes is available to any switches 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
Optional Accessories	Buddy Button, Big Buddy Button and Treadle Pedal Switches

Specifications subject to change without notice

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Box Contents – This package contains: 1- X-keys USB Switch Interface, 1- USB Cable, 1- Installation CD, 1- Product Manual (this page).
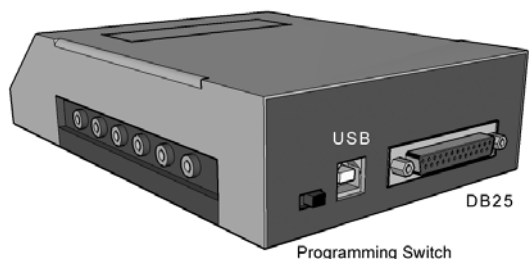
X-keys USB – Quick Start

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). 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.

The X-keys USB Switch Interface has a DB25 connector on the back panel which serves as an alternative connection to the 12 ports. If both the ports and the DB25 connector are used, the switches are in parallel. If either switch is pressed, the programmed macro will be fired.

The wiring for the pins is as follows:

PIN #	Definition	PIN #	Definition
1	Ground	14	Port 12
2	"	15	Port 11
3	"	16	Port 10
4	"	17	Port 9
5	"	18	Port 8
6	"	19	Port 7
7	"	20	Port 6
8	"	21	Port 5
9	"	22	Port 4
10	"	23	Port 3
11	"	24	Port 2
12	"	25	Port 1
13	Ground		

How to Contact Us

Technical Support	Our Shipping Address:
Web: www.piengineering.com	P.I. Engineering
E-mail: tech@piengineering.com	101 Innovation Parkway
Phone: 1-517-655-5523	Williamston, MI 48895-1663 USA

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.
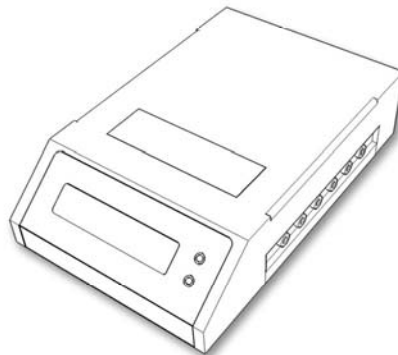
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USB Programmable Devices
Product Manual for USB X-keys

Switch Interface
12 Switch Ports

Designed, Maufactured and Sold by:

P.I. Part # 1755

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 Weiss Design, Chicago, Illinois
Patent # 4964075
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