X-keys® MWII Professional USB Specifications (XP-05-USB-R)

- *58 Programmable Keys*
- *Connects to any functional USB port*
- *Plays keystrokes on any USB compatible Operating System*
- *Rugged construction*
- *Durable Cherry® Mechanical switches for a long, reliable life*

The ***X-keys® MWII Professional*** 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	Cherry type MX mechanical switch, ¾" (19 mm) on center, silent tactile feel
Number of Keys	58 single keys – with second layer: 114 programmable keys
Key Cap Type	5/8" (16 mm) sq. w/removable clear caps for easy labeling
Connector	USB "A"
Dimensions	9" x 8" x 1", (230 mm x 200 mm x 25 mm)
Weight	17 ½ oz. (620 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 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

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X-keys ® Pro PS/2 Specifications (XP-04-PS2)

- 58 Programmable Keys
- Connects in-line with standard PS/2 keyboard
- Compatible with all PC operating systems with a standard, PS/2 keyboard port
- No drivers or adapters required
- Rugged construction
- Durable Cherry® Mechanical switches for a long, reliable life

The ***X-keys Desktop*** records key commands from your keyboard and sends them to your computer. 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 and keys may be instantly reprogrammed. The clear key caps snap off for applying and changing key legends. 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 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	None required. Compatible with all software which accepts keyboard input
Number of Keys	58 single keys
Number of Layers	2 layers – user selectable toggle and/or shift keys
Memory Capacity	Each key is allocated 3 characters and a pool of 900 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	Cherry type MX mechanical switch, ¾" (19 mm) on center, silent tactile feel
Key Cap Type	5/8" (16 mm) sq. w/removable clear caps for labeling (fits Cherry MX switch)
Connectors	Mini-DIN 6-pin designed to pass through the main keyboard
Dimensions	7" x 4¼" x 1" (177 mm x 108 mm x 25 mm)
Weight	9¼ oz. (260 grams)
Power Source	Keyboard port power, nominal voltage = 5 vcd
Power Consumption	Less than 15 ma @ 5 vdc plus the power used by the external keyboard
Accessories Included	Double-keys (one horizontal and two vertical), key puller
Optional Accessories	Large 1-3/8" (35 mm) square keys (replace 4 single keys), additional double-keys
Certifications	FCC class B, CE

Specifications subject to change without notice

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USB Programmable Devices

Product Manual for USB X-keys

Professional

58 Keys

P.I. Part # 1759

Designed, Maufactured and Sold by:

"The No Slogan Company"

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

X-keys USB – Quick Start

Run the installation program from the encl osed 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 installati on 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 d epartment: 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-ke ys 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 – Use the included legend sheets to select appropriate icons or print legends for your keys. The keycaps snap off with a fingernail or small screwdriver. Apply the label under the keycap, and replace it. To print legends o n 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).

Horizontal and Vertical Double-keys – The included double-keys replace two single keys on the X-keys. To install a double key cap, remove two adjacent keys with the provided key-puller by positioning the key-puller teeth under the key and pulling straight up on the key cap. Press the double-key in place over the two exposed switch stems.

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Scanmagnetics Oy | Helsinki, Finland | Puh : 09-271 2200 | Fax: +358-9-271 2210 | Eml: xkeys [a] scanmagnetics.com

Other Products by P.I. Engineering

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

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

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.

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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