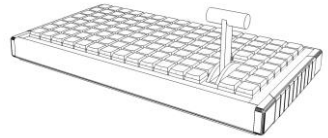




XKE-124 T-bar USB Controller Product Manual

- ❑ Model XK-1370-UFB124-R
- ❑ 124 Keys + T-bar Control
- ❑ Individual Key Backlighting
- ❑ Designed, Sold, and Supported in USA
- ❑ From P.I Engineering
- ❑ USA: www.xkeys.com
- ❑ UK: www.keyboardspecialists.co.uk



Box Contents

This package contains:

- 1- X-keys XKE-124 T-bar
- 1- Double key set (2 tall, 1 wide, 1 key puller)
- 2- Angled feet
- 4- Legend Sheets (two pre-printed, two blank)
- 1- Product Manual

Software Development Kits

P.I. Engineering offers a free Software Development Kit with code samples in C#, C++ and .NET. We also offer an SDK for Linux and Android application samples. Please visit the Developers section on our website: xkeys.com/PISupport/Developer.php.

Mac Users

Install ControllerMate for X-keys from the X-keys Mac page in the Software section of our website (free download). ControllerMate for X-keys is published by OrderedBytes in partnership with P.I. Engineering. For full programming instructions and support, please visit www.orderedbytes.com/controllermate/xkeys/.

Support

Should you encounter difficulty with the installation or programming, please check the SDK or ControllerMate help files or check the troubleshooting guide on our web site. You may also contact technical support.

USA: tech@xkeys.com | Phone: 1-517-655-5523

UK: info@keyboardspecialists.co.uk | Tel +44 (0)20 3474 0234

Identifying the Keys

Select appropriate icons or use the blank legend sheet to create your own key legends. The keycaps snap off with a fingernail or small screwdriver. Apply the label under the keycap, and replace it. The key caps hold a legend 0.575" wide and 0.5" high (14.6mm x 12.7mm). Other options are available for printing legends for multiple units. Contact our Sales Department (sales@xkeys.com) for more information.

Tall and Wide 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. Press the double-key in place over the two exposed switch stems. See more information in the SDK help files regarding special handling of large keys.

Key Blockers

Replace any key or group of keys with optional key blockers by simply removing the key caps and snapping a blocker over the exposed stem. We recommend removing the key plunger when installing blockers.

Light Pipe Key Blockers

A special key blocker with a light pipe is available to convert X-keys backlighting LEDs into indicators. Blockers with single and double light pipes allow the user to configure a red or blue indicator or one of each. The key plunger must be removed before installing a light pipe blocker.

Backlighting

All keys on the XKE-124 have two backlighting colors (red and blue). Both the SDK and ControllerMate enable individual manipulation of the LEDs. The SDK also grants ability to adjust the intensity of each bank.

Compatible Accessories

Please visit the Accessories page on our website for details on the following.

- ❑ X-keys USB Extender – up to 150 feet via CAT 5 cable
- ❑ Tall and wide keycaps
- ❑ Colored and transparent key caps
- ❑ Blank key blockers
- ❑ Light pipe key blockers
- ❑ Acrylic printed keys

Other Products from P.I. Engineering

- ✘ X-keys XK-24/XK-60/XK-80 – 24, 60 or 80 programmable keys
- ✘ X-keys XK-12 Joystick – 12 keys with a precision joystick
- ✘ X-keys XK-12 Jog & Shuttle – 12 keys with jog & shuttle
- ✘ X-keys XK-3 Foot Pedal – three programmable pedals
- ✘ X-keys XK-4 Stick – four programmable keys
- ✘ X-keys XK-8 Stick – eight programmable keys
- ✘ X-keys XK-16 Stick – sixteen programmable keys
- ✘ X-keys XK-68 Joystick - 68 keys with a precision joystick
- ✘ X-keys XK-68 Jog & Shuttle – 68 keys with jog & shuttle
- ✘ X-keys USB 12 Switch Interface – 12 switch ports
- ✘ X-keys USB 3 Switch Interface – 3 switch ports
- ✘ X-keys Encoder Board – 128 switch points

FCC Declaration of Conformity

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.



CE Declaration of Conformity

We, P.I. Engineering, Inc., declare that the X-keys is in conformance with:

- EMC Directive 2004/108/EC, tested in accordance with EN 55022 and 55024
- Certificate of compliance on file at P.I. Engineering, 101 Innovation Pkwy, Williamston, MI 48895



Contact Us

USA Sales sales@piengineering.com Phone: 1-517-655-5523 www.xkeys.com	USA Technical Support tech@piengineering.com Phone: 1- 517-655-5523 www.xkeys.com/support.php	USA Shipping Address P.I. Engineering 101 Innovation Parkway Williamston, MI 48895-1663
UK Sales info@keyboardspecialists.co.uk Tel +44(0)20 3474 0234 www.keyboardspecialists.co.uk	UK Technical Support www.keyboardspecialists.co.uk info@keyboardspecialists.co.uk Tel +44(0)20 3474 0234	UK Shipping Address Keyboard Specialists Ltd Unit 3, Cable Street Wolverhampton WV2 2HX United Kingdom

Limited Warranty

For all X-keys products purchased and installed in the United States, Canada and the United Kingdom, 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 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), Canada, and the United Kingdom.

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., Patent # 4964075
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USA: www.pieengineering.com ■ www.xkeys.com

UK: www.keyboardspecialists.co.uk

PI Part#1412



"The No Slogan Company"