

# X-keys® XKE-40 Specifications

for XK-1500-USK40-R or XK-1540-USK40R-R



- 40 programmable keys
- Clear, removable key caps for applying and changing legends
- Includes programming software for Windows and Mac
- Free software development kits for developers
- Two color addressable backlighting (red and blue)

The X-keys XKE-40 features 40 keys with independent backlighting. MacroWorks 3.1 software for Windows and ControllerMate software for Mac OS X combine ease of programming with a wide and flexible range of options. P.I. Engineering's Pi3 firmware supports direct communication for the software developer and our new reflector feature sends messages to even the most reluctant software. The XKE-40 may also be configured as a standalone USB keyboard with macros programmed in onboard non-volatile memory.

Free software development kits support all input and output data. Our SDK includes examples for C#, C++, and VB.NET and a separate SDK for Linux. Unique unit ID supports multiple units on the same system.

## Specifications

<b>Operating System</b>	Use: Any OS via USB HID   Programming: Windows XP through 10, Mac OS X 10.4 through 10.10
<b>Free Programming Software</b>	Windows: MacroWorks 3.1
<b>Free Software Development Kits</b>	Windows (C++, C#, VB.NET), OS X, Linux (C++), Android (Java), raw HID (any language/OS)
<b>Emulation Modes</b>	HID keyboard, HID mouse, HID game controller, HID multimedia
<b>Switch Type</b>	Full-travel rubber dome, carbon on gold contacts, guaranteed for over 1 million operations
<b>Number of Keys</b>	40 single keys
<b>Actuation Force</b>	Approx. 2.5 oz (72g) break-over, approx. 1.5 oz (42g) hold
<b>Keycaps</b>	0.625" (16mm) sq.; relegendable with Cherry MX compatible stem
<b>Key Spacing</b>	0.75" O.C.
<b>Optional Keys</b>	2x1, 1x2, 2x2, and 1x1 blocker
<b>Backlighting</b>	40 blue and 40 red LEDs, individually addressable
<b>Connector</b>	Wired USB standard "A" plug
<b>Cord Length</b>	118" (3 m)
<b>Dimensions and Weight</b>	19" x 1.75" x 1.4", (483 mm x 44 mm x 10 mm), 21 oz. (600 g)
<b>USB type</b>	USB 1.1 compatible through 3.0 Type-c with adapter
<b>Power Source</b>	USB port, nominal voltage = 5 VDC
<b>Current Draw</b>	No BL: 40 mA, All Blue: 80 mA, All Red: 110 mA, All Red and Blue: 140 mA
<b>Temperature Range</b>	-20 to 60 C
<b>Memory Capacity</b>	Approximately 21,000 keystrokes or commands in onboard memory
<b>Memory Type</b>	EEPROM, non-volatile memory (X-keys retains memory for over 200 years)
<b>Environmental Rating</b>	IP 40, typical indoor office environment
<b>Certifications</b>	FCC class B, CE, RoHS, WEEE compliant

Specifications subject to change without notice