

## Thank You

It is our commitment to you that we provide the highest quality keyboards available in their price range. And we believe that the best path to achieving this is an honest approach to design. This is why our design efforts start by respecting the needs and desires of our customers and then analyzing the promises that other manufacturers have fallen short on delivering. To this end, we strictly use only high-quality, name brand, components and the latest manufacturing and quality control techniques to ensure reliability for years to come.

We encourage you to compare Keyed Up Labs keyboards to other competitive products, just as we do, in order to gain an appreciation for the exceptional typing experience that we believe caring for our customers helps us create!

Happy typing!

*P.S. Please visit us at [keyeduplabs.com](http://keyeduplabs.com) for the latest product info.*

### What's in the box?

1. ES-87 Keyboard
2. USB Cable
3. PS/2 Adapter
4. Keyboard Cover
5. Keycap Pulling Tool
6. Additional Keycaps: Esc, Caps Lock, Left Ctrl, Backspace, and Backslash.
7. This Guide

### Keyboard Specifications

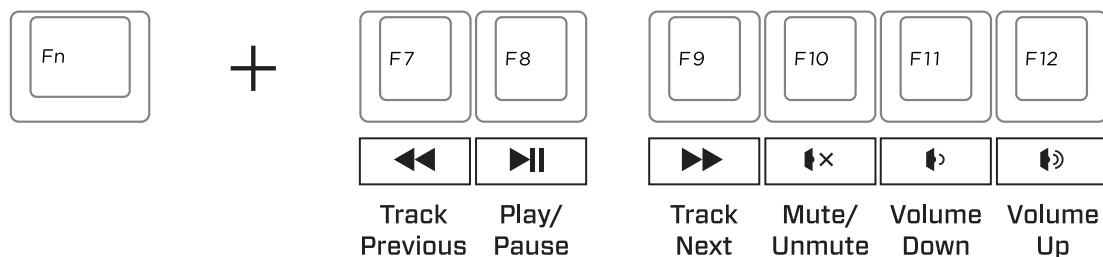
<b>Layout:</b>	Tenkeyless 87-key US ANSI layout w/US English legends
<b>Key Switches:</b>	Authentic Cherry MX Switches w/4mm keystroke and Gold-Silver (AuAg10) contacts
<b>OS Support:</b>	MS Windows and Apple OS X Compatible
<b>Electrical Interface:</b>	USB 1.1 Low Speed and PS/2 with included passive interface
<b>Cable:</b>	Detachable 2.0m A to Mini-B USB cable
<b>Dim/Weight:</b>	364 x 144 x 37mm (50mm with feet down) / 1.0kg
<b>Keycaps:</b>	ABS keycaps with lasered legends
<b>Illumination:</b>	LEDs on Caps Lock, Left Ctrl, Esc, and Scroll Lock keys
<b>Certifications:</b>	CE & FCC

### Keyboard Installation

This keyboard requires no software drivers to use with either the USB or PS/2 interfaces. However, PS/2 is not a hot-pluggable interface and using it will require that your computer is first shutdown before plugging it in.


### Media Keys

Media Keys are accessible by pressing **Fn + F7** through **F12**; accordingly depicted in the following diagram.



*Media Key Selection*

### Power Mode

The diamond  keys, which act as and are in the same position as Windows keys on most MS Windows specific keyboards, have the alternate function referred to as Power Mode.\*

To *enable or disable* Power Mode, press **Fn + Left Diamond + Right Diamond**. When Power Mode is enabled the Esc LED will be illuminated.

Keypress	Power Mode Output
Left Diamond key	Left Ctrl + Left Shift
Right Diamond key	Right Alt + Right Ctrl

*Power Mode Key Mapping*

\* Power Mode is only available while in Windows Mode (*see the section on DIP Switches*).

### DIP Switches

The DIP switches on the underside of the keyboard allow for several often requested keyboard features to be enabled or disabled. It is not normally required that the keyboard be unplugged when changing DIP switches, but may be necessary if the new configuration is not recognized by your OS.

SW#	OFF	ON
1	Windows Mode	OS X Mode
2	Left Ctrl = Left Ctrl	Left Ctrl = Caps Lock / Caps Lock = Left Ctrl
3	Esc = Esc	Esc = Backtick / Backtick = Esc
4	Backspace = Backspace	Backspace = Backslash / Backslash = Backspace
5	Shift + Fn = Menu	Fn = Menu / Shift + Fn = Fn
6	125Hz polling rate	1000Hz polling rate
7	6-key rollover USB	N-key rollover USB
8	Future Expansion	Future Expansion

*DIP Switch Quick Reference*

**Switch 1** Under OS X mode some keys are remapped to output Apple OS X friendly key codes. In addition to the special key mappings shown below, most standard hotkeys will work; from LCD adjustment with **Fn + F1** or **F2**, to issuing a Sleep command by pressing **Command+Option+Fn+Backspace**. \*\*

Keypress	OS X Mode Key
Diamond key (Windows key)	Option
Alt key	Command
Fn + Backspace keys	Media Eject

*OS X Mode Special Key Mapping*

\*\* Using OS X mode prevents the use of certain other features of the keyboard. These include DIP Switches #5 & 7, Fn + Shift does not output a “Menu” command, the “Power Mode” feature is disabled, and key rollover may be reduced by one key to 5-key rollover.

**Switch 2** Swaps Left Ctrl with Caps Lock.

**Switch 3** Swaps Esc with Backtick.

**Switch 4** Swaps Backspace with Backslash.

**Switch 5** Changes Fn to Menu. Fn is still accessible with Shift + Fn.

**Switch 6** Increases the keyboard’s USB polling rate request to 1ms (1000Hz); the default request is 8ms (125Hz). However, this feature is limited to OS support (very limited) and has no effect over the PS/2 interface.

**Switch 7** Increases key rollover\*\*\* while using the USB interface from 6-key to N-key (unlimited keys). Note, the default USB rollover is not N-key due to incompatibilities with the BIOS of older PCs.

**Switch 8** Unused.

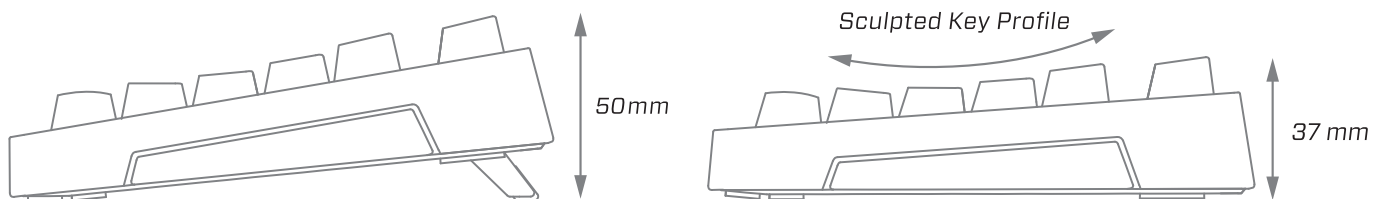
\*\*\* **Key Rollover** specifies the number of keys that can simultaneously be transmitted to the host computer at one time and is dependent on keyboard feature support and the interface used. PS/2 by design, has unlimited rollover, also known as N-key rollover; whereas most basic USB keyboards are limited to 6-key rollover without additional hardware support.

### General Usage and Care

**Proper typing posture and ergonomics:** Posture and workspace ergonomics can greatly effect your productivity and health. So it is important to have a good understanding of how your keyboard can help you, but more importantly, how you can help yourself.

Numerous typing ergonomics studies have shown that strain on your upper arms and back can be reduced by sitting up straight, keeping your back straight and elbows at your sides, and having your keyboard at a level and position on your desk such that your forearms form a 90 degree angle with your upper arms. A movable keyboard tray or a height adjustable chair (if sitting) is often recommended.

Also, wrist strain due to typing can be reduced when your palms float freely in the air and do not rest on your desk or palm rest. The sculpted key profile of this keyboard is meant to compliment this typing position. In addition, the fold-out feet allow for a fine tuning of the keyboard angle for your comfort.



**Cleaning:** Besides just dirt and dust; studies have shown that keyboards frequently have higher concentrations of harmful germs and bacteria than any other surface in our homes and offices! Fortunately, cleaning your keyboard is easy. A light cleaning can be achieved with a small brush to remove dust between keys and a soft cloth with 70% isopropyl alcohol to disinfect the keytops and case edges. When a deeper cleaning is necessary, the keycaps can be removed using the supplied keycap pulling tool and a soft brush or compressed air can be used to clean out dirt and other contaminants from the keyboard tray. The keycaps themselves can be cleaned in warm (not hot) soapy water and should be thoroughly dried with a soft towel before reinstallation.

**Cleaning warning:** Spraying compressed air or cleaners into keyswitches can damage them permanently! Please take care to avoid introducing contaminants under keycaps and into keyswitches.

**Food and beverage warning:** This keyboard uses mechanical key switches that are only partially sealed to the environment and are susceptible to damage from food and beverage spills and very dirty environments. Should heavy exposure or an accident happen, particularly involving a liquid, the following steps may save your keyboard from irreparable damage and voidance of the warranty.

**Step 1. Unplug your keyboard from the host computer immediately!**

**Step 2.** Turn your keyboard over and shake out or allow the bulk of the spill to drain out the top side of the keyboard for several minutes.

**Step 3.** Use the keycap pulling tool to remove the keycaps around the spill area and use a soft towel to soak up any remaining liquid.

**Step 4.** Allow the keyboard to dry in a warm location for 48 hours before reconnecting to your computer.

### Limited Manufacturer Warranty

**Period of Limited Warranty:** 2 years for the cost of parts and labor, up to, but not exceeding the original purchase price. Repair coverage outside normal distribution regions is subject to regional support limitations and purchase location. Please contact your retailer for further information.

**Outside of Limited Warranty Coverage:** The warranty shall not cover damages caused by inappropriate use; including usage in high humidity or high dust environments, acts of nature, or failure due to connecting the keyboard to inappropriate devices. The warranty shall also not cover damages resultant to the loss of data or software or equipment that the product is attached to.