

Disassembling the KVM switcher



Article Overview

Disassembling a KVM switch involves removing the case screws, separating the metal housing, and inspecting the internal PCBs for HDMI, USB, and control chips.

General Disassembly Steps

- **Power Off and Disconnect** Ensure the KVM switch is unplugged from all computers, monitors, and power sources to prevent electrical hazards.
- **Remove Case Screws** Most KVM switches use Phillips screws to secure the metal or plastic casing. For example, the Monoprice Blackbird 4K HDMI 2.0 KVM uses a Phillips #1 bit to remove four screws, allowing the case to be separated into front/sides and back/top/bottom pieces ().
- **Separate the Housing** Slide or lift the top and bottom panels off carefully. Some models have the front panel attached to the PCB, so avoid forcing the case to prevent damage ().

Internal Components

- **HDMI/Video Switching** HDMI signals are typically routed through dedicated multiplexer chips. For instance, generic HDMI KVMs use IT66341TE chips for 4-to-1 HDMI muxing and IT66321E for switching between streams (). High-end models like TESmart HDC202-X24 maintain Ethernet and audio links with separate chips to preserve connectivity during switching ().
- **USB and Keyboard/Mouse Control** USB ports are managed by microcontrollers or ASICs, such as the CH559L, which monitors key codes for input switching (). PS/2 ports, if present, are usually directly connected to the main PCB ().
- **Audio and Ethernet** Some KVMs include audio and Ethernet chips that remain con...

Article Content

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KVM switch

A KVM switch (with KVM being an abbreviation for "keyboard, video, and mouse") is a hardware device that allows a user to control

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Learn about the different components and connections of a KVM switch with our informative diagram. Explore how KVM switches

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Control of the Switcher Hotkey Function One USB 1.1 port on front panel of the switcher supports keypad Hotkey function. Connect a

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Connect the shared USB keyboard, mouse, two or four DisplayPort monitors, speaker/headphone and microphone to corresponding

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User Manual

This User Manual provides all the details you'll need to install and operate your new Switch, in addition to expert troubleshooting

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This article describes FAQs about KVM switches. This content can help you better understand KVM switches in order

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KVM Switches KVM0108A and KVM0116A Installation Manual Date: Jun 03 2022 Type: User guide Languages: English

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It can be used both as a setup guide and a troubleshooting step. KVM RESET/SET UP PROCEDURE Start by ensuring everything is

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Comprehensive instruction manual for the UGREEN 8K@60Hz Displayport KVM Switch, enabling two computers to share dual

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Cracking open a KVM switch

At this stage of disassembly, the KVM switch's top and bottom halves must be rotated to provide access to

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How to Set Up a KVM Switch Step by Step

In this blog, we will guide you step by step on how to set up a KVM switch. If you have multiple computers but only

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Monoprice Blackbird 4K HDMI 2.0 and USB 3.0 2x1 KVM Switch

Introduction ... Product # 42643 Universal Product Code 889028168349 This teardown is not a repair guide. To repair

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KVM SWITCHES | QUICK SETUP GUIDE

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