BZB GEAR®
Solutions to Amplify Your World™

BG-UHD-KVM21A

2X1 1080P KVM Switcher with USB 2.0 and Audio Support

User Manual

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Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- Do not dismantle the housing or modify the module.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not put any heavy items on the extension cable in case of extrusion.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Unplug this device during lightning storms.
- Do not use liquid or aerosol cleaners to clean this unit. Clean only with a soft dry microfiber cloth.
- Always unplug the power to the device before cleaning.
- If an object or liquid falls or spills on to the housing, unplug the module immediately.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGEAR is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- Product specifications may be subject to technical upgrades without further notice.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

Introduction

The BG-UHD-KVM21A is a 4K HDMI USB 2.0 KVM switch. With support for resolutions up to 4K@30Hz, this device allows users to control two computers and share USB peripherals from a single workstation. Perfect for offices, software programmers, and technical support desks, users can easily switch between multiple operating systems without leaving their seat.

Features

- Share an HDTV or display, USB keyboard & mouse, and microphone between two USB/HDMI computers and devices
- Provides an additional USB 2.0 sharing ports with over-current detection and protection
- Switch between devices via front push button or hotkey
- Up to resolutions of 4K@30Hz and PC's UXGA 1920x1200
- Dolby True HD and DTS HD Master Audio formats
- HDMI1.4 & HDCP compliant
- Video bandwidth: up to 3Gb/s
- Metal housing for better RF shielding

Packing List

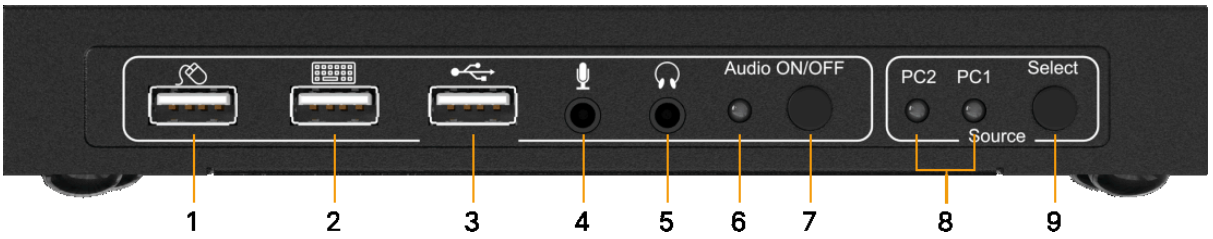
- 1x BG-UHD-KVM21A
- 1x Power Adapter
- 1x User Manual
- 1x Quick Start Guide

Technical Specifications

General	
Supports resolutions	Max input: 4K@60Hz; max output: 4K@30Hz
Input Ports	2 HDMI, 2 USB 2.0 Host, 3 USB 2.0 Peripheral, 1 analog audio
Output Ports	1 HDMI, 1 Analog Audio
Control	Panel Buttons
Power Supply	AC 100 - 240V 50/60Hz
Weight	9.1oz [258g]
Dimensions	6.15"(W) x 2.7"(D) x 1"(H) 156mm (W) x 69mm (D) x 25mm (H)
Housing	Metal Enclosure

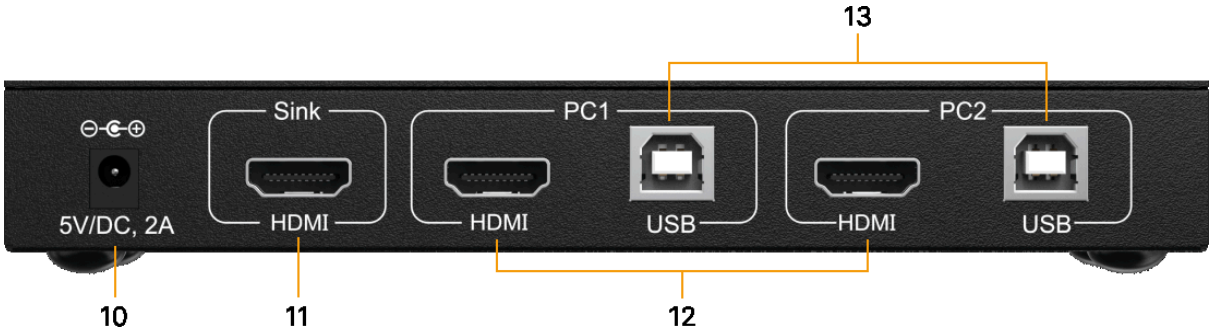
Operation Controls and Functions

Front Panel



1. **USB Mouse Port**: Connect to a USB mouse.
2. **USB Keyboard Port**: Connect to a USB keyboard.
3. **USB Port**: Connect to other USB devices.
4. **MIC**: Connect to a microphone.
5. **Audio out**: Connect to earphones.
6. **Audio LED**: Audio ON/OFF Indication.
7. **Audio Switch**: Switch to enable/disable the MIC/Audio out function.
8. **Port LED**: Indicate which HDMI source is selected.
9. **Port Select**: Switch between the HDMI sources.

Rear Panel



10. Power Jack: Connect to the included power adapter.

11. HDMI Sink: Connect to local HDMI Display.

12. PC1/2 HDMI Inputs: Connect to the source/remote device's HDMI output.

13. PC1/2 USB Type-B Port: Connect to the source/remote PC's USB port for USB control.

Hardware Installation

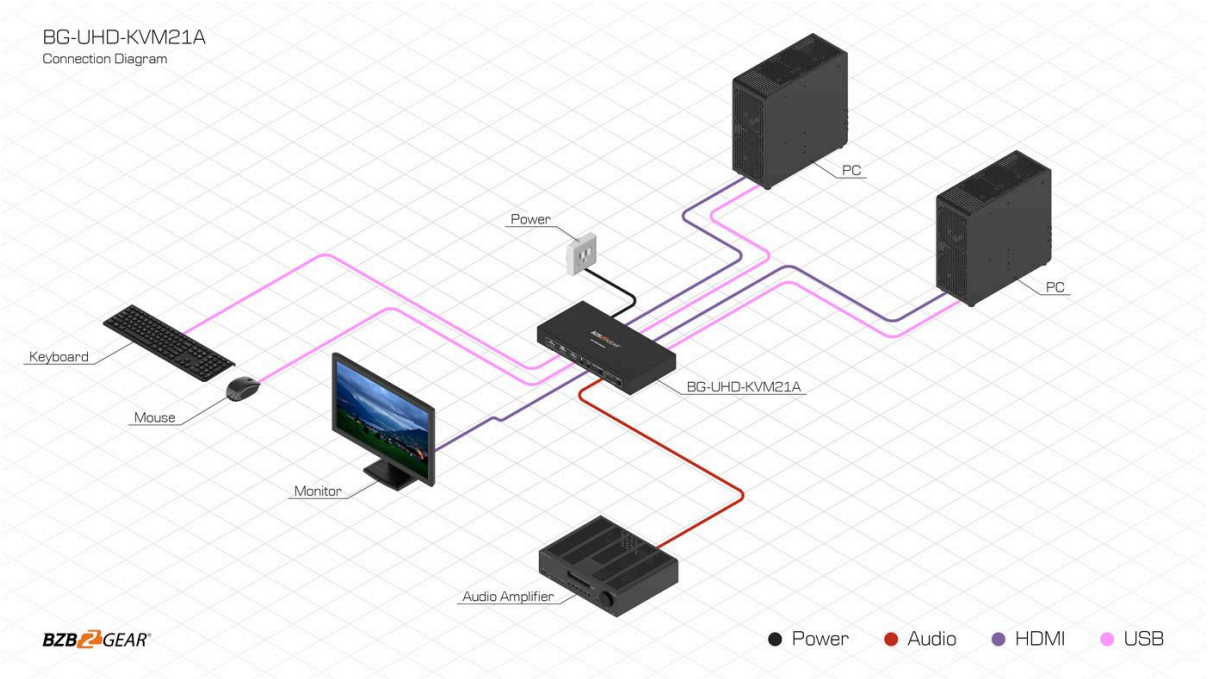
1. Power off all devices you plan to connect to the 2x1 USB HDMI KVM Switch 4K2K.
2. Connect a monitor/display to HDMI OUTPUT of the switch by an HDMI cable.
3. Connect a USB keyboard and a USB mouse to the USB keyboard and Mouse ports of the switch.
4. Connect the computer's HDMI connector to the switch's INPUT 1 connector using the HDMI cable.
5. Connect the computer's USB port to the switch's PC1 connector (USB Type B) using the included USB cable.
6. For the second computer, follow steps 4 to 5 to connect the preferred system/device to INPUT 2 and PC2.
7. Optional: Connect other USB peripherals you wish to share between the connected computers/devices to the extra USB ports on the switch.
8. Connect the power adapter into the switch's Power Jack.
9. Power up the first computer/device and wait until it is fully booted up. Make sure the keyboard and mouse work properly.
10. Once the first computer system is successfully setup, press the Switch button and power up the second computer/device to verify the setup properly.
11. The installation is complete and the 2x1 USB HDMI KVM Switch is ready for use.

Note: At least 1 connected device has to be a PC with a USB port or the switching mechanism will not function.

Hotkey Commands

Command	Function
[Caps Lock]+[Caps Lock]+1	Switch to PC1
[Caps Lock]+[Caps Lock]+2	Switch to PC2
[Caps Lock]+[Caps Lock]+ → or ↓	Switch to next PC
[Caps Lock]+[Caps Lock]+ ← or ↑	Switch to previous PC
[Caps Lock]+[Caps Lock]+S	Auto-scan mode every 10 seconds
[Caps Lock]+[Caps Lock] +S+n	Set auto-scan rate, [Esc] switch to regular mode

Application Example



Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGEAR's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

Phone	**Email**	**Live Chat**
1.888.499.9906	support@bzbgear.com	bzbgear.com

Warranty

BZBGEAR Pro AV products and cameras come with a three-year warranty. An extended two-year warranty is available for our cameras upon registration for a total of five years.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Mission Statement

BZBGEAR is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGEAR delivers quality products designed with users in mind.

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