

# **BZB-SW-41A**

4X1 4K 18Gbps UHD HDMI 2.0 Switcher with IR Remote Control

# **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 BZB-SW-41A HDMI 18Gbps 4x1 switcher can switch any of the 4 connected HDMI 2.0 sources to an HDMI 2.0 display. It supports 10 bit HDR (High Dynamic Range) pass through and HDMI high resolution digital audio bypass as well as HDCP and CEC bypass. It can also extract HDMI audio to L/R analog output (LPCM only).

#### **Features**

- HDMI 2.0b (18Gbps), HDCP 2.2, and DVI compliant
- Video resolutions up to 4K2K@50/60Hz (YUV444)
- 4x HDMI inputs and 1x HDMI output
- Built-in retiming and cable driver
- Extracts HDMI audio to L/R analog output (LPCM only)
- HDMI High Bit Rate(HBR) audio pass through
- Audio sample rates up to 192kHz
- 10 bits HDR (High Dynamic Range) pass through
- HDCP, 3D, and CEC bypass
- Automatic switching when a source is connected or disconnected

### **Packing List**

- 1x HDMI 4X1 Switcher unit
- 1x 5V/1A Power Adaptor
- 1x Remote Control unit

- 1x User Manual
- 1x Quick Start Guide



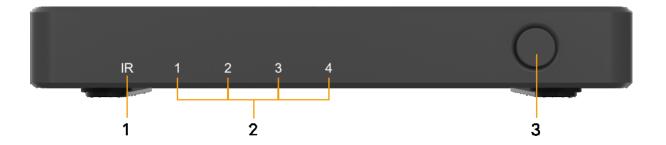
# **Technical Specifications**

Technical				
HDMI Compliance	HDMI 2.0b			
HDCP Compliance	HDCP 2.2 and HDCP 1.4			
Video Bandwidth	18 Gbps			
Video Resolutions	up to 4K2K@50/60Hz (YUV4:4:4),4K2K@30Hz,1080P@120Hz, and 1080P 3D@60Hz			
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2			
Color Depth	10-bit, 12-bit			
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X			
L/R Audio Formats	Analog Stereo 2CH			
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)			
Connections				
Inputs	4x HDMI Type A [19-pin female]			
Outputs	1x HDMI Type A [19-pin female] 1x L/R Audio Out [3.5mm Stereo Mini-jack]			
Mechanical				
Housing	Plastic Enclosure			
Color	Gray			
Dimensions	120.97mm [W] x 79.17mm [D] x 16mm [H]			
Weight	195g			
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)			
Power Consumption	1W (Max)			
Operation Temperature	32 - 104°F / 0 - 40°C			
Storage temperature	-4 - 140°F / -20 - 60°C			
Relative Humidity	20 - 90% RH (no condensation)			



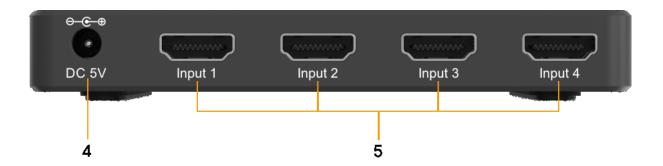
# **Operation Controls and Functions**

#### **Front Panel**



- 1. IR: Remote control receiver window.
- **2. HDMI Input LEDs 1-4**: The LED will illuminate when the corresponding HDMI input is selected.
- **3. Select Button**: Press this to switch between HDMI input sources.

#### **Rear Panel**



- **4. DC 5V**: Connect 5V/1A adapter to AC wall outlet for power supply.
- **5. HDMI Inputs 1-4**: Connect to HDMI source devices.
  - a. The BG-SW-41A will automatically switch to a new source when it is connected, or to the last connected source when a source is disconnected/turned off.



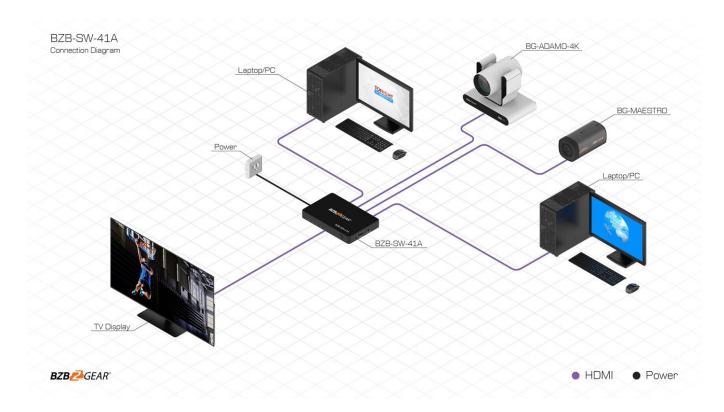
#### **Side Panel**



- **6. HDMI Output**: Connect to an HDMI display to view the input signal sources.
- 7. Audio Out: Connect to an external audio amplifier or TV L/R audio input port.



# **Application Example**





# **Tech Support**

Have technical questions? We may have answered them already!

Please visit BZBGEAR's support page (<u>bzbgear.com/support</u>) for helpful information and tips regarding our products. Here you will find our Knowledge Base (<u>bzbgear.com/knowledge-base</u>) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (<u>youtube.com/c/BZBTVchannel</u>), 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:

<u>Phone</u>	<u>Email</u>	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 <a href="mailto:bzbgear.com/warranty.">bzbgear.com/warranty.</a>

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

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#### **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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