

BG-MV41A

4x1 1080P FHD HDMI Switcher/Scaler/MultiViewer with IR/RS-232

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

- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- Unplug this device during lightning storms
- Clean only with a soft dry microfiber cloth.
- 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.
- Only use accessories specified by the manufacture
- Product specifications may be subject to technical upgrades without further notice



Introduction

The BG-MV41A is a 4X1 HDMI quad multiviewer with seamless switching capabilities. It supports four HDMI inputs which can be displayed on one screen in five different multiview modes. As a switcher, it can also seamlessly switch between the four HDMI inputs in full screen mode. The unit can be controlled through the front panel button, IR, or RS232 control.

Features

- HDMI 1.3a and HDCP 1.2 compliant
- 4 HDMI inputs and 1 output
- High Definition resolutions up to 1080p@60
- 4 by 1 Quad Multi-viewer and seamless switching
- Front panel button, IR control, and RS232 control
- · Upscaling and downscaling

Packing List

- 1x BG-MV41A
- 1x 12V/DC, 2A Power Supply
- 1x Remote control

- 1x User Manual
- 1x Quick Start Guide
- 1x 3-Pin Phoenix Connector

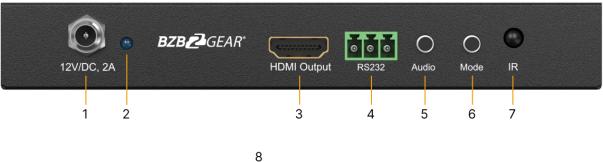


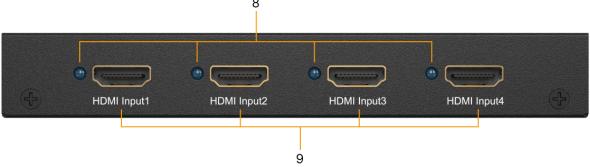
Specifications

Signal Inputs/Output				
Maximum Single Link Range	1920x1080@60			
HDMI Input/Output Connector	Type A 19 pin			
Operating Frequency				
Vertical Frequency Range	50/60Hz			
Video Amplifier Bandwidth	2.25Gbps			
Resolutions				
Input Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30/50/60Hz			
Output Resolution	720p, 1080p			
Mechanical Data				
Dimensions	5.8"(W) X 4.0"(D) X 0.83"(H) [148.5mm(W) X 103mm (D) X 21.5mm(H)]			
Weight	0.75 lbs [342g]			
Chassis Material	Metal			
Color	Black			
Environmental				
Operating Temperature	32°F to 158°F / 0°C to +70°C			
Operating Humidity	10% to 85% RH (no condensation)			
Storage Temperature	14°F to 176°F / -10°C to +80°C			
Storage Humidity	5% to 90% RH (no condensation)			
Power Requirement				
External Power Supply	12V DC@2A			
Power Consumption (max)	10W			
Regulatory Approvals				
Main Unit	FCC, CE			
Power Supply	UL, CE, FC C, REACH, ROHS			



Operation Controls and Functions





Front Panel

- 1. **12V/DC**: Plug the 12V DC power supply into the unit and connect the adapter to the AC wall outlet.
- 2. **Power LED**: Indicates unit is receiving power when lit.
- 3. **HDMI Output**: Connect to a display to view the signal sources.
- 4. **RS232**: Connect the RS232 port to a computer via a RS232 Cable.
- 5. Audio Button: Press this button to select the audio from the input sources.
- 6. **Mode Button**: Press this button to select the multiview display mode.
- 7. IR: Remote control receiver window.

Rear Panel

- 8. **HDMI Inputs 1-4 LEDs**: Blue LEDs illuminate when the device is connected to sources.
- 9. **HDMI Inputs 1-4**: Connect up to 4 HDMI sources.



IR Remote



ON/OFF: Power on/off switch.

Mode select button (M1-M5, H, 1/2, 3/4, Ch1-Ch4, $\frac{1|2}{3|4}$): Press these buttons to change and select the corresponding modes (see Detailed Display Descriptions section)

Blank button: No function

Audio Select button(11- 14): Press these buttons to select the audio from an input source

Mute button: Turn off Sound

H/S Resolution button: Upscale 720P signal to 1080P or downscale 1080P signal to 720P.

PC Controller User Guide

Preparation

- 1. Connect the PC to the multiviewer through a RS232 cable.
- 2. Power-up the multi-viewer
- 3. Double click BG-MV41A Quad multiviewer.exe icon to run the program.

RS-232:

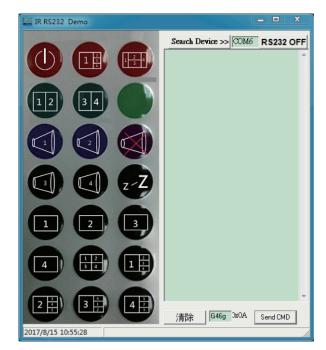
TX ÷ RX

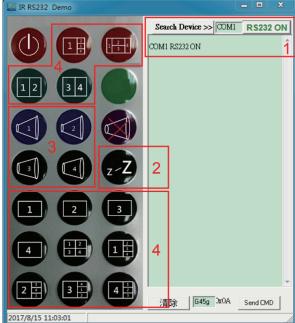


RS232

The unit provides a passthrough for RS232 signal. Connect to another RS232 device such as a PC, IP Camera, Creston control panel, Smart Matrix, and so on. It only functions when the Tx, Rx, and your RS232 control devices baud rates are the same.







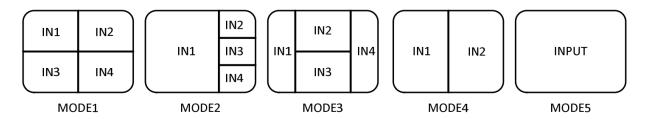
- 1. Select the PC COM port that is in use and ensure that your PC's COM port is the same as the software's COM port (default COM6). Next, click the "RS232 OFF" button to start the connection.
- 2. Select the HDMI output resolution.
- 3. Select the audio from the input source.
- 4. Select the output mode (see the Detailed Descriptions of Display Modes section).



Connection And Operation

- 1. Connect the signal sources such as a Blu-Ray player, game console, audio/video receiver, satellite receivers, or computer equipped with an HDMI output interface.
- 2. Connect the HDMI output of the HDMI switcher to a display device.
- 3. Connect the switcher to power.
- 4. The switcher can be controlled via the front push button, remote control, or RS232 controls.

Detailed Descriptions of Display Modes:



The product provides 5 multiview display modes as shown above.

MODE1: The four HDMI input sources are displayed in a 2x2 configuration on one screen.

MODE2: The four HDMI input sources are displayed with one bigger and three smaller windows on one screen.

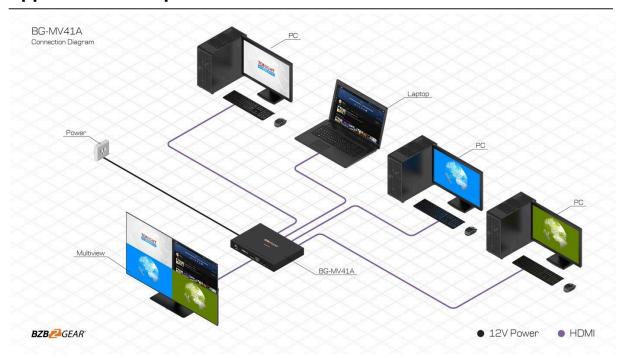
MODE3: The four HDMI input sources are displayed H-spilt on one screen.

MODE4: The two HDMI input sources are displayed in 2x1 on one screen.

MODE5: This is the full screen mode, pressing the IN1 ~ IN4 buttons will select the corresponding channel and display it in full screen.



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

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

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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