

BG-4K-VP88

**4K60Hz HDMI 8X8 Seamless Matrix, Video Wall, & Multi-Viewer
with Audio Embedding and Extraction**

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.
- 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.



Introduction

The BG-4K-VP88 is a 4K60Hz HDMI 2.0 seamless matrix with 8 HDMI inputs and 8 HDMI outputs that also supports Multi-viewer & Video wall modes. The unit can be controlled through TCP / IP, RS232, the included remote controller or the front panel buttons. The BG-4K-VP88 has the ability to equalize and amplify HDMI signals to ensure that they are transmitted without loss of quality. The unit also features advanced EDID management as well as analog audio embedding and extraction.

Features

- 8 x HDMI Inputs and 8 x HDMI Outputs
- HDMI 2.0 4K60Hz YUV 4:4:4 up to 18Gbps
- Seamless matrix switching, multi-viewer, and video wall functionality
- HDCP 1. x / 2.2 compliant
- TCP/IP, RS232 Commands, IR and front panel buttons control
- EDID management and USB firmware upgradable
- PCM 2.0 analog audio embedding and audio extraction
- Audio can be independently switched
- 1U Rack design with rack ears

Packing List

- 1x BG-4K-VP88
- 1x DC 12V/3A power adapter
- 1x Remote control
- 1x Wide-Band IR Receiver cable
- 1x User Manual
- 1x 3 Pin Phoenix terminal plug



Specifications

HDMI Ports	16x HDMI Type A 19 pin, HDMI 2.0b Standard
HDMI Audio	LPCM 5.1, DTS 5.1, Dolby 5.1
HDMI Resolution	4K60/50/30/25/24hz 1080P60/50/30/25/24hz 720P60/50/30hz
HDMI Version	HDMI 2.0b/HDCP1.4/2.2
Max Resolution	4K60Hz (4:4:4)
Data Speed	18Gbps (6Gbps per color)
Clock	600Mhz
Color space	RGB, YUV, 4:4:4, 4:2:2
Bit	8bit, 10bit, 12bit
Distance	HDMI 2.0 (4K60) Input≤10m / Output≤10m, 4K30/1080P input≤15m / Output≤15m
Dimensions (L x W x H)	16" x 6.4"(W) x 1.7"(H) [414 x 163 x 44 mm]

Operation Controls and Functions

Front Panel



No.	Name	Function Description
1	LCD Screen	LCD Screen for showing the running data such as matrix status and menu items.
2	Output 1~8	Buttons for Matrix switching, Long press means all selected
3	Input 1~8	Button for Matrix switching, Long press means all selected
4	Preset	Used to set and recall preset configurations.
5	UP	Function button: UP
6	Lock	Press for over 1 second and the panel buttons will be locked. Re-press to unlock the front panel.
7	Menu	Open the onscreen menu.
8	Down	Function button: Down
9	Enter	Function button: Enter
10	IR Ext	Built in IR Receiver.
11	Power Indicator	Illuminated when the device is powered on.
12	IR Indicator	IR feedback indicator flashes when receiving remote controller commands.



Rear Panel



No.	Name	Function Description
1	Audio Embedded 1~8	3.5MM ports, Sampling Rate: 32K~192Khz
2	Audio Extraction 1~8	3.5MM ports, Sampling Rate: 32K~192Khz
3	SPDIF Extraction 1~8	Coaxial Port, Sampling Rate: 32K~192Khz
4	RS232 Port	3PIN Phoenix port: TX - GND - RX
5	IR EXT	3.5mm ports, supports 38~52Khz frequency
6	LAN Port	WEB GUI Control
7	HDMI Inputs 1~8	A type 19 PIN-HDMI Port
8	HDMI Outputs 1~8	A type 19 PIN-HDMI Port
9	Power	AC110V~240V

OSD Information

Signal switching includes 8 switching channels which can be configured as one-to-one or one-to-many to form a matrix of 1x8 ~ 8x8. Any input can go to any output.

Operation format: press the desired “output channel” and then press an “input channel.”

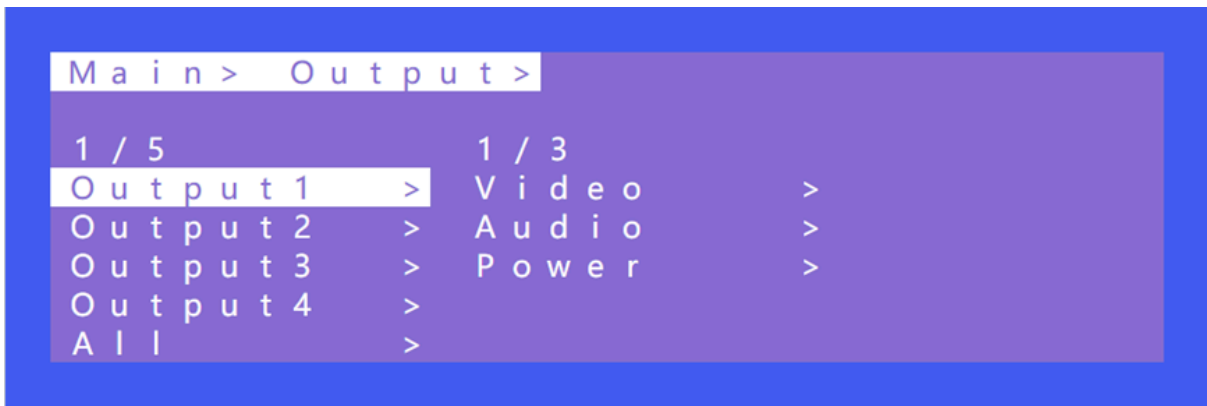


The Main menu includes 5 Modes: Output, Input, Preset, Config, and Info.

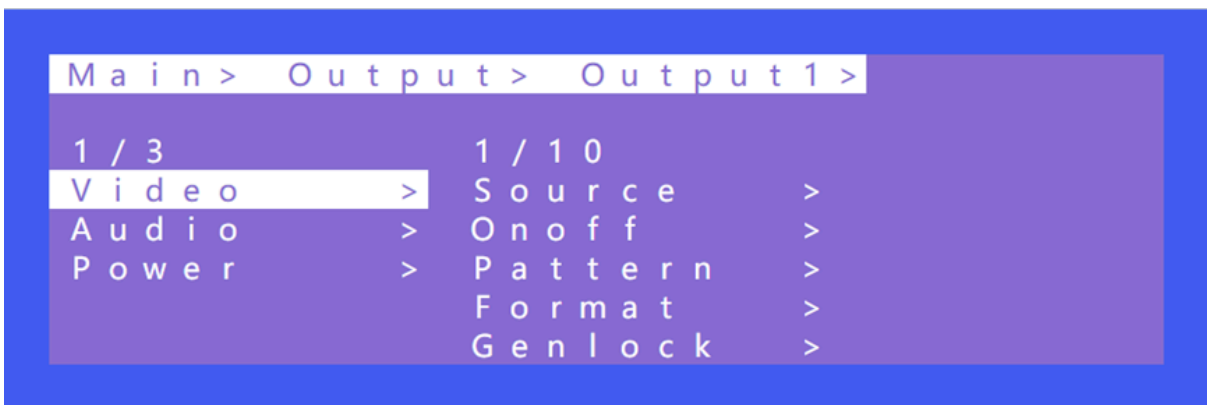




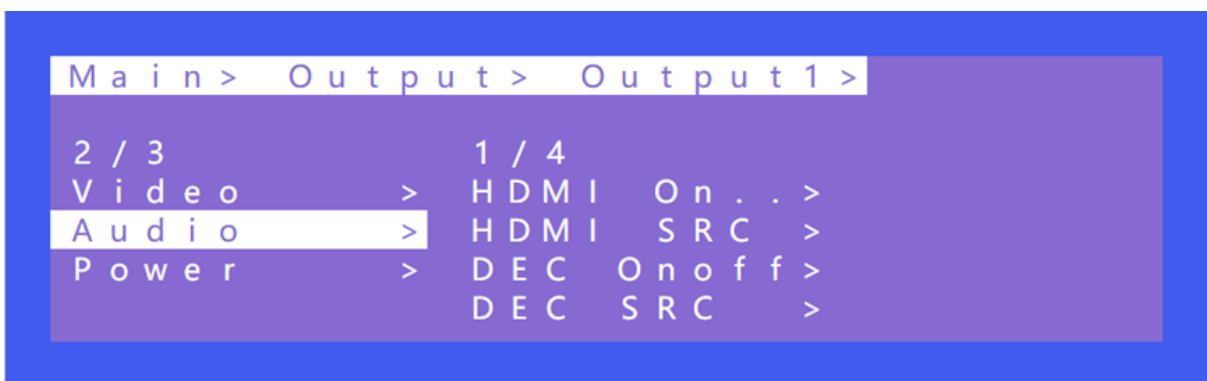
Output includes 9 sub-menus: output 1~8 & all, each channel with video, audio, and power options.



Video has 10 options: source, on/off, pattern, format, genlock, mirror, coord, PIP, wall, image.



Audio has 4 options: HDMI on/off, HDMI SRC, DEC on/off, DEC SRC to control audio switching, turn on or off.





Power: Turns on or off the HDMI Output 5V.

```

Main > Output > Output 1 >
3 / 3           2 / 2
Video          > Off
Audio          > On      @
Power         >
    
```

Input contains video, audio, and EDID options.

```

Main >
2 / 5           1 / 5
Output         > Input 1      >
Input         > Input 2      >
Preset        > Input 3      >
Config        > Input 4      >
Info          > All          >
    
```

```

Main > Input >
1 / 5           1 / 3
Input 1        > Video       >
Input 2        > Audio       >
Input 3        > EDID       >
Input 4        >
All           >
    
```



Video has on/off and Pattern options. Pattern is used to replace the picture of the signal with a static image.

```

Main > Input > Input 1 >
1 / 3          1 / 2
Video >       Onoff >
Audio >       Pattern >
EDID >
    
```

Audio delay range (0~50, auto), Default setting: auto

```

Main > Input > Input 1 >
2 / 3          1 / 1
Video >       Delay >
Audio >
EDID >
    
```

EDID includes Built-in EDID, User EDID, Copy EDID, Temp, Default setting is using: Default1

With Modify on and after copying the TVs EDID, the audio parameters are automatically changed to LPCM 2.0. If turned off, the copied EDID will not modify the audio parameters.

Default1	4K60 444-LPCM: 2.0-192Khz	Default2	4K60 420-LPCM: 2.0-192Khz
Default3	4K30 444-LPCM: 2.0-192Khz	Default4	1080P120 444-LPCM: 2.0-192Khz

```

Main > Input > Input 1 >
3 / 3          1 / 2
Video >       Copy >
Audio >       Modify . . >
EDID >
    
```



```

Main > Input > Input 1 > EDID >
1 / 2          11 / 13
Copy >        User 3
Modify . . >  User 4
              Output 1
              Output 2
              Output 3 @
    
```

```

Main > Input > Input 1 > EDID >
2 / 2          2 / 2
Copy >        Off
Modify au >   On @
    
```

Preset can save the current video, audio, EDID, system settings, and supports 8 different scenes/presets. Presets can be modified and called using the web interface, RS-232 commands and the front panel. The default preset is consistent with the factory settings. There are 4 options in the Preset menu as follows:

- **Clear:** Remove the selected preset.
- **Save:** Stores the current preset (can be overwritten).
- **Call:** Activates the currently selected preset.
- **Demo:** Plays the demo according to the scenes sequence.

```

Main >
3 / 5          1 / 4
Output >      Clear >
Input >       Save >
Preset >     Call >
Config >     Demo >
Info >
    
```



```

Main > Preset >
2 / 4          2 / 2
Clear >      Mode >
Save >       Scene >
Call >
Demo >
    
```

```

Main > Preset > Clear >
2 / 2          1 / 9
Mode >         Scene 1 @
Scene >        Scene 2
                Scene 3
                Scene 4
                Scene 5
    
```

Demo:

Timer can set the demo's switching time

Select function for selecting the demo modes

```

Main > Preset > Demo >
1 / 2          10 / 10
Timer >        1 M
Select >       1 M 30 S
                2 M
                3 M
                Endless @
    
```

```

Main > Preset > Demo >
2 / 2          1 / 27
Timer >        S - P2P >
Select >       S - Input 1 >
                S - Input 2 >
                S - Input 3 >
                S - Input 4 >
    
```



Config contains the Network, RS-232, LCD, OSD, MENU, user EDID, and system setting pages.

```

Main >
4 / 5          1 / 7
Output >      Network >
Input >       RS - 232 >
Preset >     LCD >
Config >     OSD >
Info >       Menu >
    
```

Network contains options for DHCP, IP, mask, gateway, port, and Mac ID.

Default IP: 192.168.1.200

```

Main > Config > Network >
1 / 6          1 / 2
DHCP >        No @
IP >          Yes
MASK >
Gateway >
Port >
    
```

TCP/UDP default Port: TCP 5000, UDP 5001

```

Main > Config > Network > Port >
1 / 2          5 0 0 0 / 6 5 5 3 4
TCP >         5 0 0 0 @
UDP >         5 0 0 1
                5 0 0 2
                5 0 0 3
                5 0 0 4
    
```



```

. . . >> Network > Port > TCP >
5000 / 65534
5000 @ DHCP : Off
5001 IP : 192 . 168 . 0 . 57
5002 MASK : 255 . 255 . 255 . 0
5003 GW : 192 . 168 . 0 . 1
5004 MAC : 4658 - 4E9E - 0A6B
    
```

```

Main > Config >
2 / 7          1 / 4
Network > Baud >
RS - 232 > Data >
LCD > Stop >
OSD > Parity >
Menu >
    
```

```

Main > Config > RS - 232 >
1 / 4          6 / 6
Baud > 9600
Data > 19200
Stop > 38400
Parity > 57600
          115200 @
    
```

LCD contains settings for screen brightness levels and screen idle time off settings.

```

Main > Config >
3 / 7          1 / 2
Network > Bright >
RS - 232 > Timer >
LCD >
OSD >
Menu >
    
```



```

Main > Config > LCD >
1 / 2          9 / 9
Bright >      4
Timer >       5
               6
               7
               8
               @
    
```

```

Main > Config > LCD >
2 / 2          6 / 1 1
Bright >      3 0 S
Timer >       1 M
               1 M 3 0 S
               2 M
               3 M
    
```

There are 4 options in OSD: User, Time, Menu, and Info.

User indicates the output coordinate time of OSD.

Time indicates the running time after the device is powered on.

Menu indicates that the LCD is mapped to the TV.

INFO indicates the displayed time of audio and video information.

When the parameter is set to 0 seconds the OSD display will be turned off. By default, User and time are infinite while menu and info are set to 30 seconds.

```

Main > Config >
4 / 7          1 / 4
Network >     User >
RS - 2 3 2 >  Time >
LCD >        Menu >
OSD >       Info >
Menu >
    
```



Timer is used to set the idle time before the system sends users back to the main menu (default is 30s).

“Select Run” is used to determine whether the confirm button of the last sub-menu is enabled.

If it is set to disable, you need to press “ENTER”. If it is set to enable, you do not need to press “ENTER.”

```

Main > Config >
5 / 7          1 / 2
Network      > Timer          >
RS - 232     > SelectRun >
LCD          >
OSD         >
Menu        >
    
```

```

Main > Config > Menu >
1 / 2          10 / 10
Timer         > 1 M
SelectRun > 1 M 30 S
              2 M
              3 M
              Endless @
    
```

```

Main > Config > Menu >
2 / 2          2 / 2
Timer         > Disable
SelectRun >  Enable @
    
```



User EDID: Users can store the EDID information of a connected output display device in the connection matrix to user 1~4, which can be stored in default, output, temp1, and then used in the EDID list.

```

Main > Config >
6 / 7          1 / 5
LCD           > User 1           >
OSD          > User 2           >
Menu         > User 3           >
User EDID > User 4           >
System      > All             >
    
```

System Setting includes reboot, power, and factory. Reboot is used to restart the device. Power is used to put the device into sleep mode. Factory is used for factory data reset which returns the device to original factory settings.

```

Main > Config >
7 / 7          1 / 3
LCD           > Reboot          >
OSD          > Power           >
Menu         > Factory         >
User EDID >
System      >
    
```

```

Main > Config > System >
1 / 3          1 / 2
Reboot        > No             @
Power         > Yes
Factory      >
    
```



Timed Off indicates timed standby, Timed On indicates timed wake up, and Auto Sleep.

```
Main > Config > System >
2 / 3          1 / 3
Reboot >      Timed Off >
Power >       Timed On >
Factory >     Auto Sl... >
```

Factory contains two options for factory reset.

Simple: Partially restores factory settings.

User: Restores all factory settings.

```
Main > Config > System >
3 / 3          1 / 2
Reboot >      Simple >
Power >       User >
Factory >
```

Query device information including input, output, system, and log. The information can only be queried and cannot be set or changed.

Input: resolution information of the signal sources input.

Output: EDID information of the TV of outputs.

System: System information includes web, version, and company info.

Log: Matrix log.

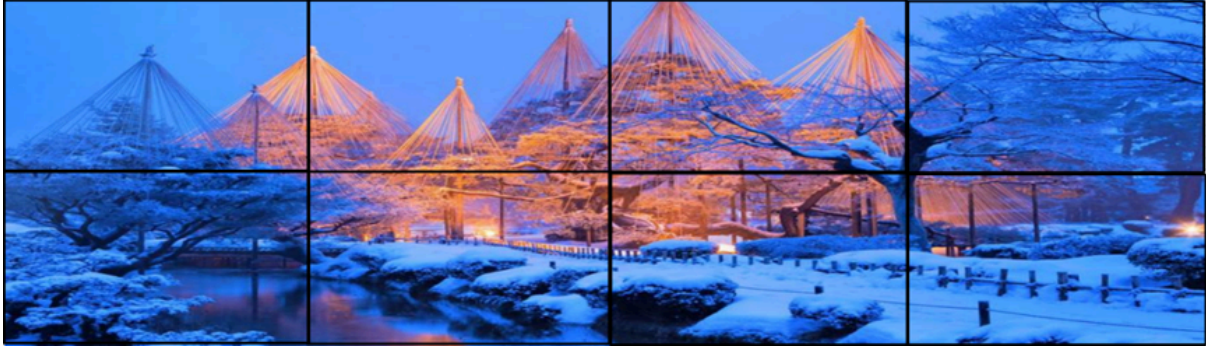
```
Main >
5 / 5          1 / 4
Output >      Input >
Input >       Output >
Preset >     System >
Config >     LOG >
Info >
```



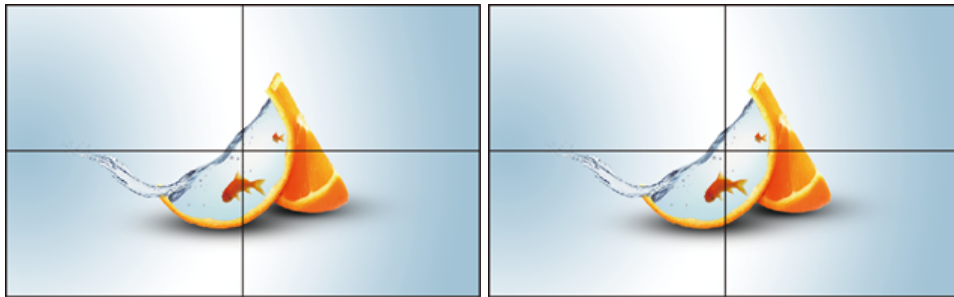
Video Wall Mode

1. Supports margin/bezel adjustments.
2. Supports seamless switching of the video wall (displays must have same resolution)
3. Support mirroring of displays in the video wall.
4. Supports multiple simultaneous video wall settings.

Video wall configurations are as shown:



W-2x4



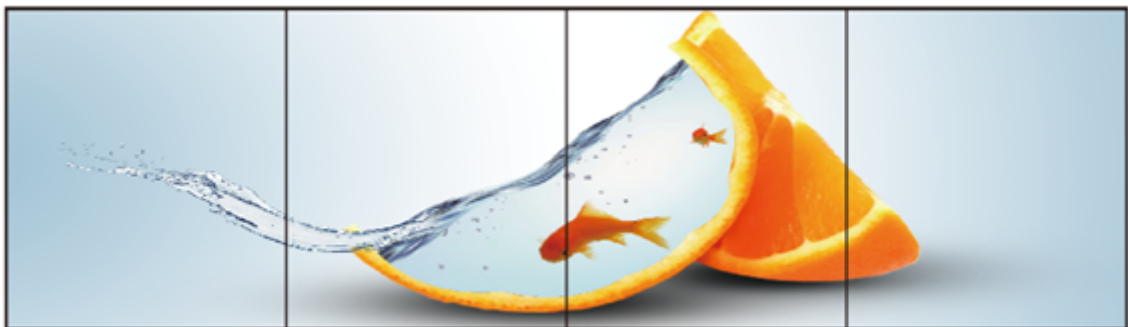
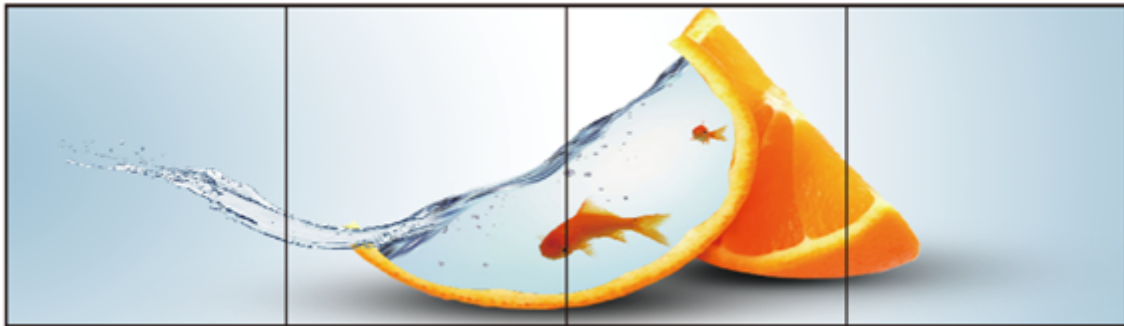
W-2x2



W-1x2



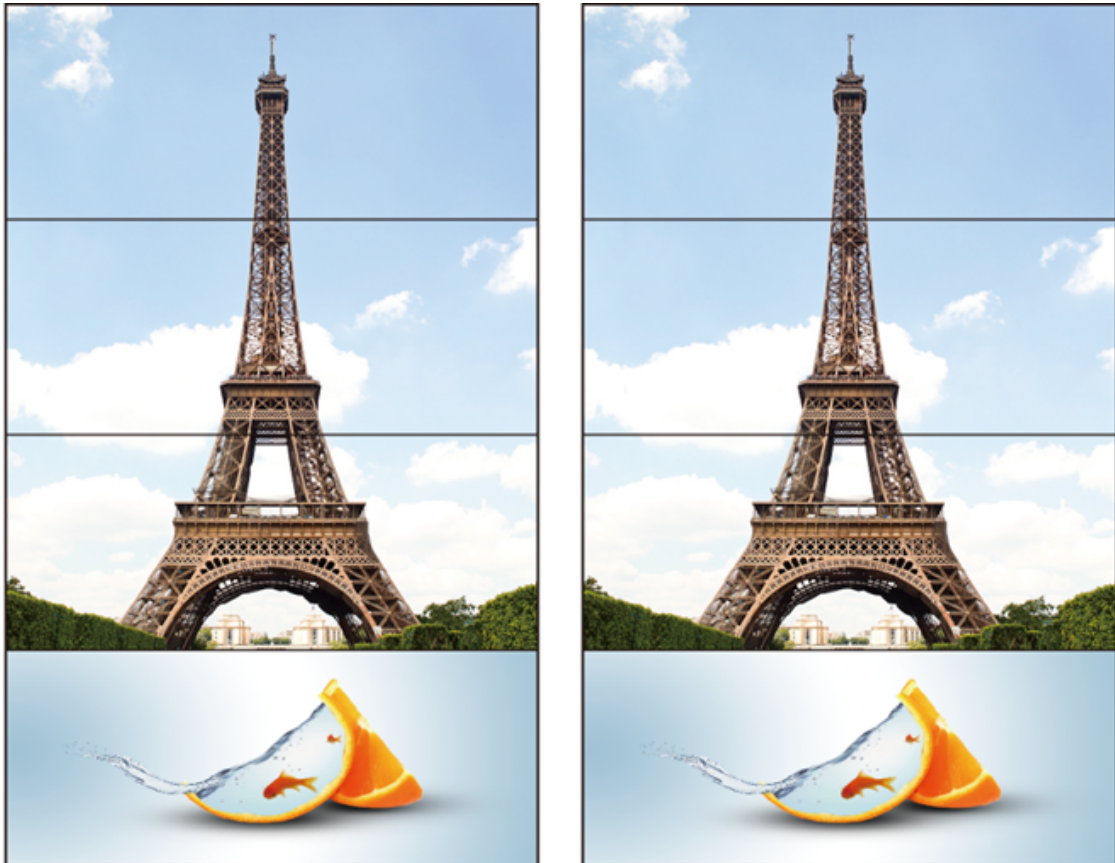
W-1x3



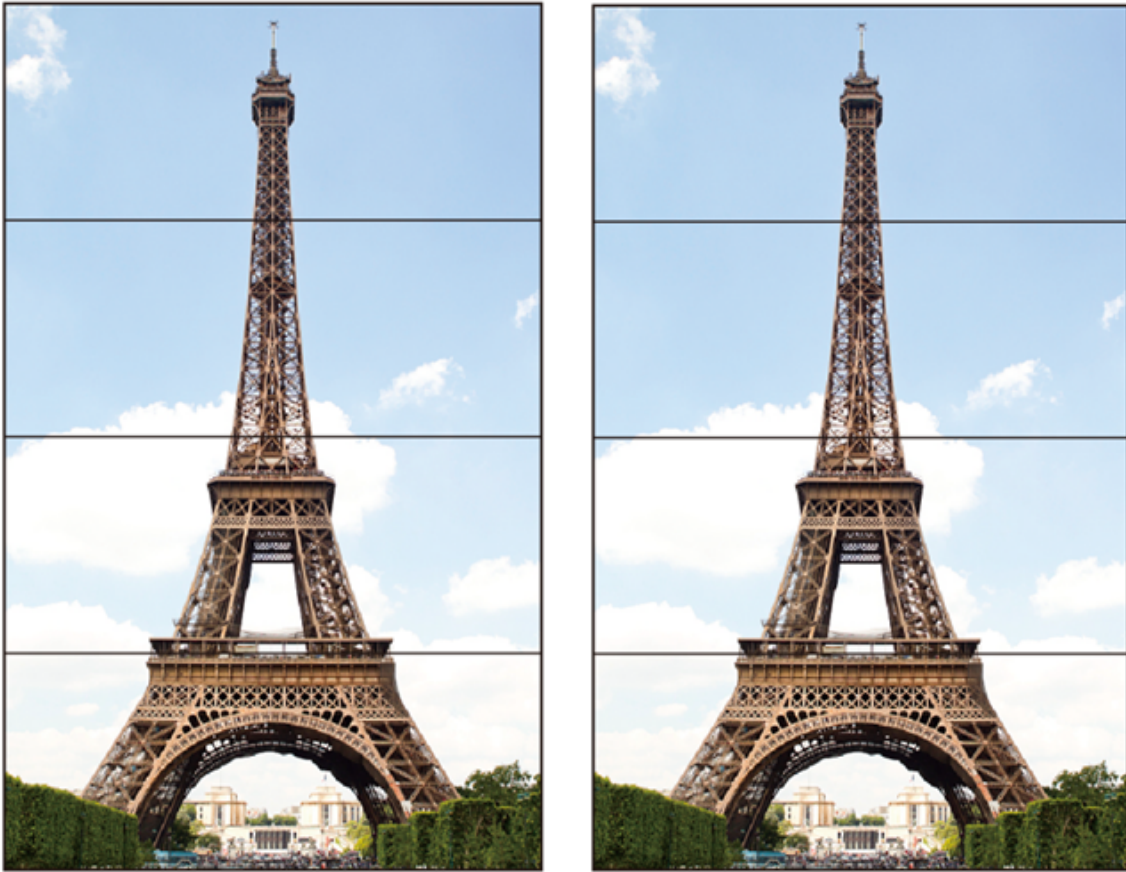
W-1x4



W-2x1 W-2x1



W-3x1



W-4x1

Multi-Viewer Mode

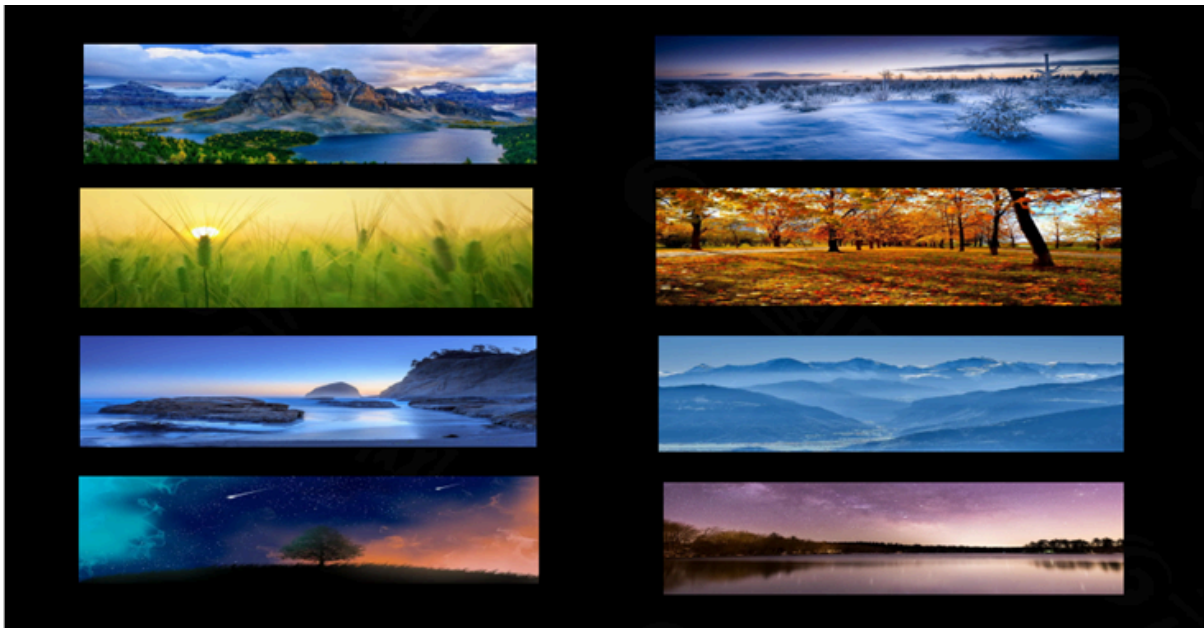
There are 6 different modes when the Multi-Viewer mode is enabled as shown below:



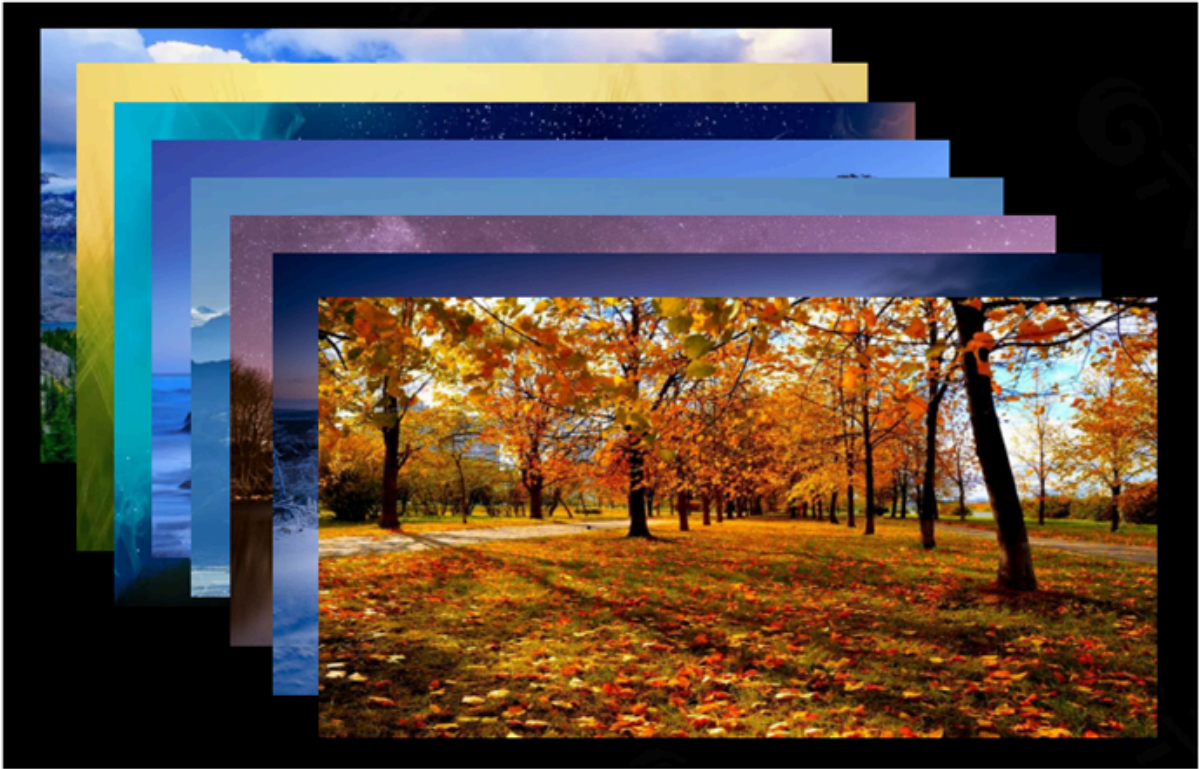
Mode 1



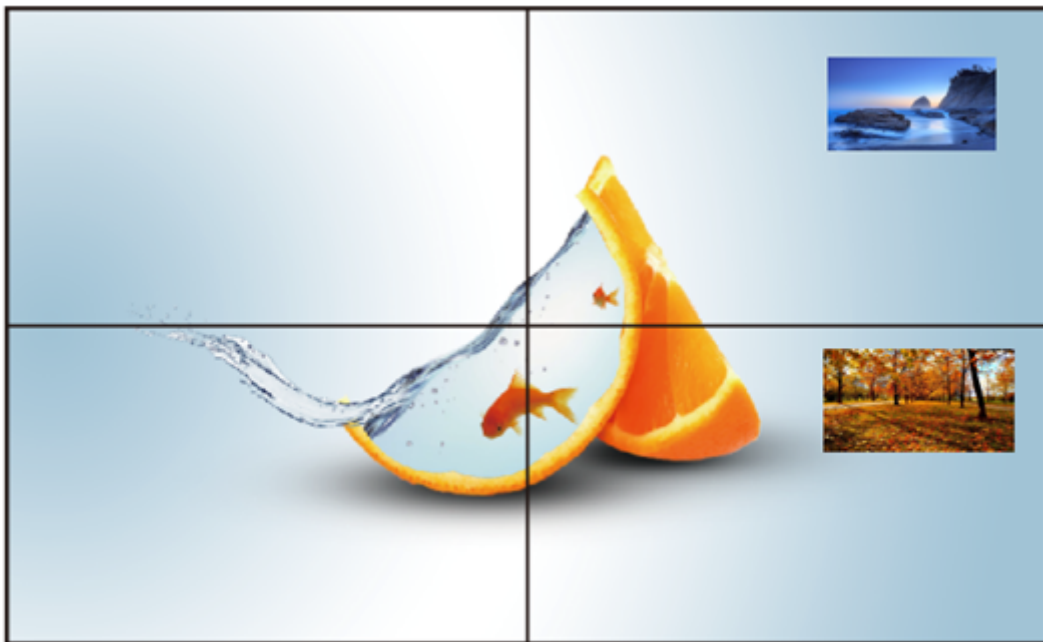
Mode 2



Mode 3



Mode 4



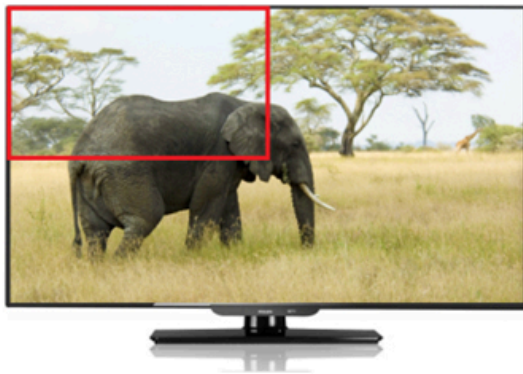
Mode 5



Mode 6

Image Cropping and TV Coordinate Changes

- Input starting point: CROP X0(0), CROP Y (0),
- Input ending point: CROP X1(3000), CROP Y0(3000)
- Input scaling starting point: ZOOM X0(0), ZOOM Y0(0),
- Input scaling ending point: ZOOM X1(6000), ZOOM Y0(6000)



Before cropping



After cropping

Changing coordinates is only supported in the on-screen display menu;
 Default wall coordinates output 1 (0,0) output 2 (1,0) output 3 (0,1) output 4 (1,1);
 Output 1 wall width=2 and height=2. Other outputs must be to auto.

If output 1 and output 2 are flipped your coordinates would be as follows:
 Output 1 (1,0) output 2 (0,0) output 3 (0,1) output 4 (1,1);
 Output 2 wall width=2 and height=2. Other outputs must be set to auto.



Audio Description

By default the HDMI outputs support uncompressed audio PCM, LPCM 2.0, and SPDIF: 5.1.

The maximum sampling rate supports 192KHZ.

COPY EDID audio formats are forced into LPCM 2.0.























HDMI Source:

1. ENC1~8 indicates which HDMI outputs have selected the embedded audio.
2. HDMI1~8 indicates that HDMI outputs have selected another audio source.
3. Auto HDMI indicates that the input signal source is switched with the matrix, but the audio state is not switched.
4. Auto ENC indicates the HDMI sound will be overwritten and replaced with the corresponding embedded audio.



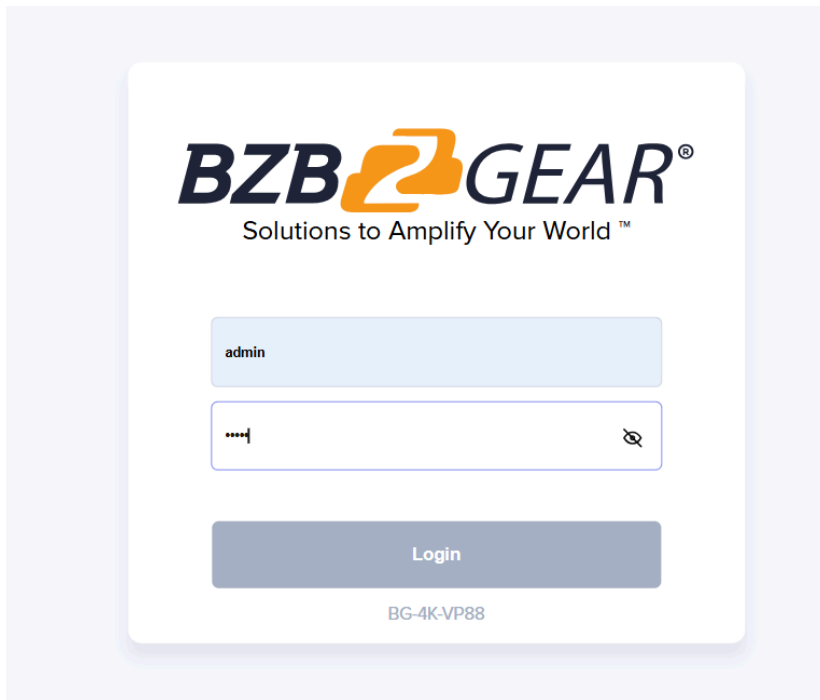
Remote Control

-  : Standby or power on
-  : Mute button
-  : Return to upper level
-  : Move to next level
-  : Picture off
-  : Page turn by 100 of the last sub-menu
-  : Page turn by 10 of the last sub-menu
-  : Menu
-  : All output
-  : Up
-  : Menu
-  : OK
-  : Enter
-  : Down
-  : Return or exit
-  : Menu
-  When selecting Output, means Out1--out8
-  When selecting Input, means In1--In8
-  : Preset
-  : (N/A)
-  : Point to Point 1-1, 2-2, 3-3, 4-4...





BG-4K-VP88 Web GUI Overview



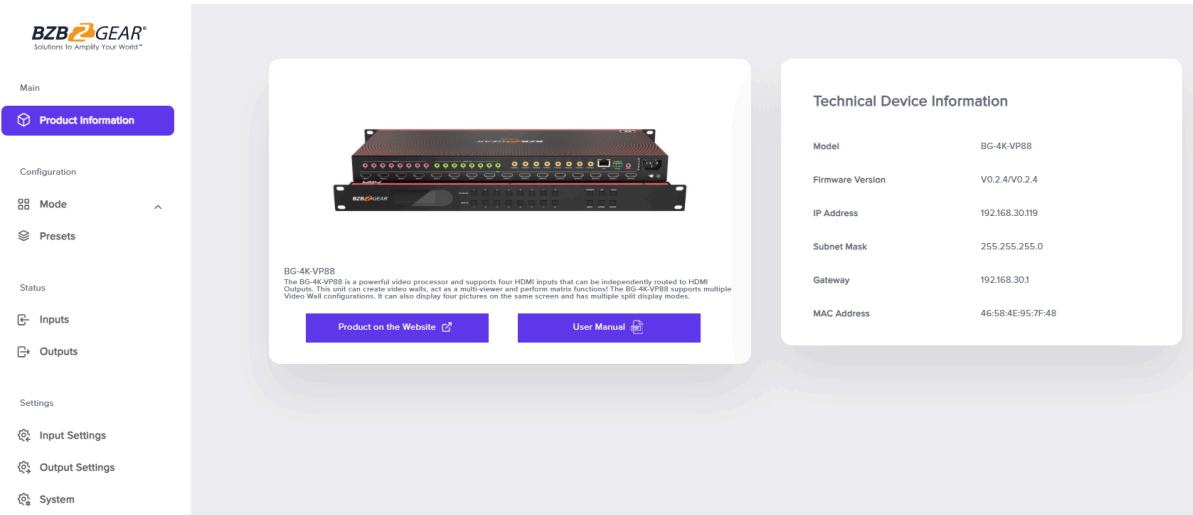
The BG-4K-VP88 features an intuitive Web GUI interface, allowing users to configure and manage the device with ease.

Accessing the Web GUI

1. Ensure the BG-4K-VP88 is connected to the same network as your PC.
2. Enter the device's IP address into your browser's address bar.
3. The login page will appear.
 - **Default Username:** admin
 - **Default Password:** admin



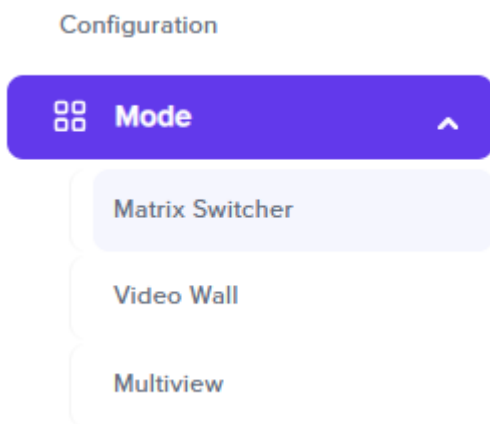
Product Information



The **Product Information** tab provides essential details about the device and links to product resources. This includes:

- Model name
- Firmware versions (MCU/HTML)
- IP address
- Subnet Mask
- Gateway
- MAC address

Available Configuration Modes



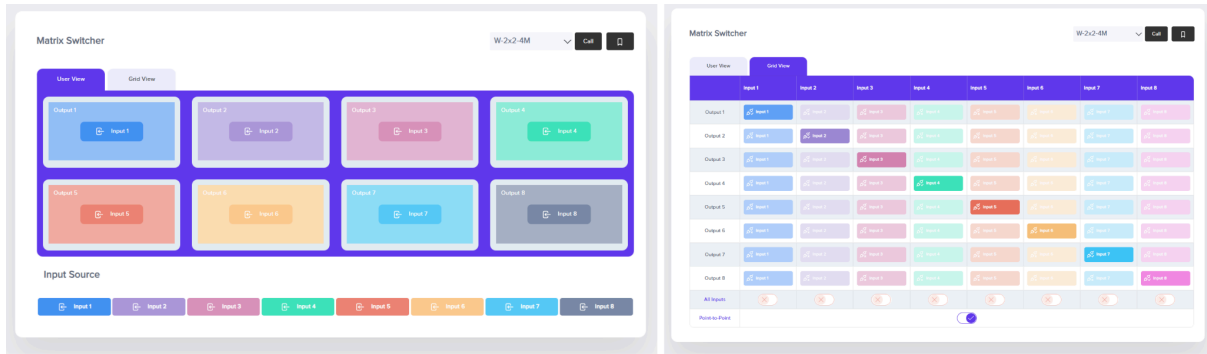
The BG-4K-VP88 supports three distinct configuration modes:

- **Matrix Switcher**
- **Video Wall**
- **Multiview**

Note: Any changes made in the active mode are applied immediately to the video outputs.

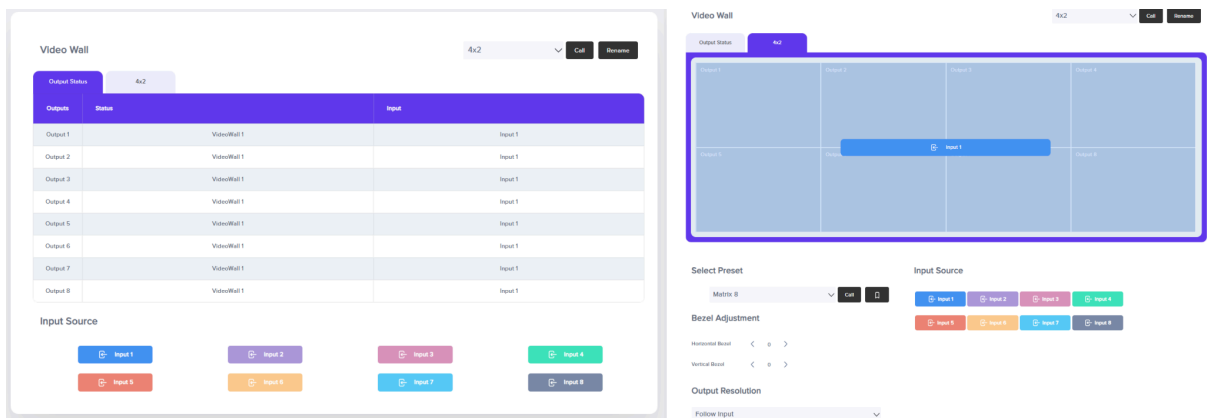


Matrix Switcher Mode



- Live View:**
 View the current system configuration. Drag and drop input sources onto output ports for quick and precise routing.
- Grid View:**
 Access all input and output ports displayed in a grid layout for efficient switching and configuration.

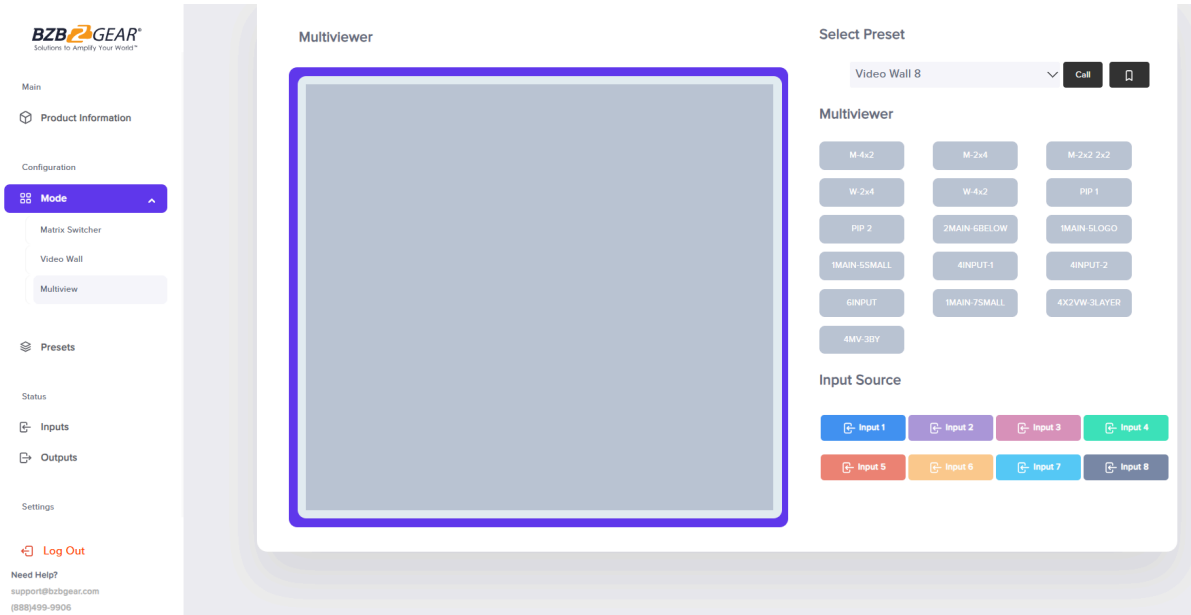
Video Wall Mode



- Output Status:**
 View the current input/output assignments for your video wall layout.
- Configuration:**
 Configure the video wall settings by selecting from preset layouts, assigning input sources, and saving your setup. Additional controls include:
 - Bezel adjustment
 - Output resolution configuration
 - Saving and recalling presets



Multiview Mode



In Multiview mode, users can:

- Select a multiview layout from available configurations
- Drag and drop input sources into each window
- Save layouts as presets for easy recall



Presets

The screenshot shows the 'Presets' tab in the BZB Gear web interface. The sidebar on the left contains navigation options: Main, Product Information, Configuration, Mode (Matrix Switcher, Video Wall, Multiview), Presets (highlighted), Status, Inputs, Outputs, Settings (Input Settings, Output Settings, System), and Log Out. The main content area displays three tables:

- Matrix Switcher:** A table with 8 rows. The first row is 'W-2x2-4M'. The remaining rows are 'Matrix 1' through 'Matrix 7'. Each row has an 'Apply Preset' button (blue with a checkmark) and a 'Clear Preset' button (red with a trash icon).
- Video Wall:** A table with 8 rows. The first row is 'Matrix 8'. The remaining rows are 'Video Wall 1' through 'Video Wall 7'. Each row has an 'Apply Preset' button (blue with a checkmark) and a 'Clear Preset' button (red with a trash icon).
- Multiviewer:** A table with 8 rows. The first row is 'Video Wall 8'. The remaining rows are 'pip custom', 'Multiview 2', 'Multiview 3', 'Multiview 4', 'Multiview 5', 'Multiview 6', and 'Multiview 7'. Each row has an 'Apply Preset' button (blue with a checkmark) and a 'Clear Preset' button (red with a trash icon).

The **Presets** tab stores and manages presets across all three operating modes (**Matrix Switcher, Video Wall, and Multiview**). Load saved configurations with a single click.

Input Status

The screenshot shows the 'Input Status' tab in the BZB Gear web interface. The sidebar on the left contains navigation options: Main, Product Information, Configuration, Mode (Matrix Switcher, Video Wall, Multiview), Presets, Status, Inputs (highlighted), Outputs, Settings, and Log Out. The main content area displays a table titled 'Input Status' with the following data:

	Connected	Resolution	Color	Audio	HDCP
Input 1	● Active	3840x2160P 59.94	RGB 8bit SDR	PCM-2 48K 24bit	None
Input 2	● Active	3840x2160P 59.94	RGB 8bit SDR	PCM-2 48K 24bit	HDCP2.2
Input 3	● Active	3840x2160P 59.94	RGB 8bit SDR	PCM-2 48K 24bit	HDCP2.2
Input 4	● Active	3840x2160P 59.94	RGB 8bit SDR	PCM-2 48K 24bit	None
Input 5	● Active	1920x1080P 60	4:4:4 8bit SDR	PCM-2 44.1K 24bit	None
Input 6	● Active	4096x2160P 30	4:4:4 8bit SDR	PCM-2 44.1K 24bit	None
Input 7	● Active	1920x1080P 59.94	4:4:4 8bit SDR	COMPRESSED-1 0K 24bit	HDCP2.2
Input 8	● Active	1920x1080P 60	4:4:4 8bit SDR	PCM-2 44.1K 24bit	None



Displays detailed information for all input ports, including:

- Connection status
- Source resolutions
- Color format
- Audio format
- HDCP status

Output Status

Output	Connected	Resolution	Color	Audio
Output 1	● Active	4096x2160P 60	4:2:0 HLG	MAT-8 192K
Output 2	● Active	4096x2160P 60	4:4:4 HLG	MAT-8 192K
Output 3	● Active	4096x2160P 60	4:2:0 HLG	MAT-8 192K
Output 4	● Active	4096x2160P 60	4:4:4 HLG	MAT-8 192K
Output 5	● Active	4096x2160P 60	4:4:4 HLG	MAT-8 192K
Output 6	● Active	4096x2160P 60	4:4:4 HLG	MAT-8 192K
Output 7	● Active	4096x2160P 60	4:2:0 HLG	MAT-8 192K
Output 8	● Active	4096x2160P 60	4:2:0 HLG	MAT-8 192K

Shows the current status of all output ports, including:

- Connection status
- Maximum supported resolution of connected displays
- Color format
- Audio format



Input Settings

Input Settings

Input	Edit Name	Video	Copy EDID From
In 1	Input 1	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 2	Input 2	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 3	Input 3	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 4	Input 4	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 5	Input 5	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 6	Input 6	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 7	Input 7	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
In 8	Input 8	<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0
All		<input checked="" type="checkbox"/>	Default 1:4096x2160P@60-444 HDR:None LPCM:2.0

Copy EDID From: Default 1:4096x2160P@60-444 HDR:Nor to User 1 **Set**

Select Custom EDID File: **Browse** to User 1 **Upload**

Manage your input devices through the **Input Settings** page:

- Assign custom names to each input
- Enable or disable video streams
- Configure EDID settings

Output Settings

Output Settings

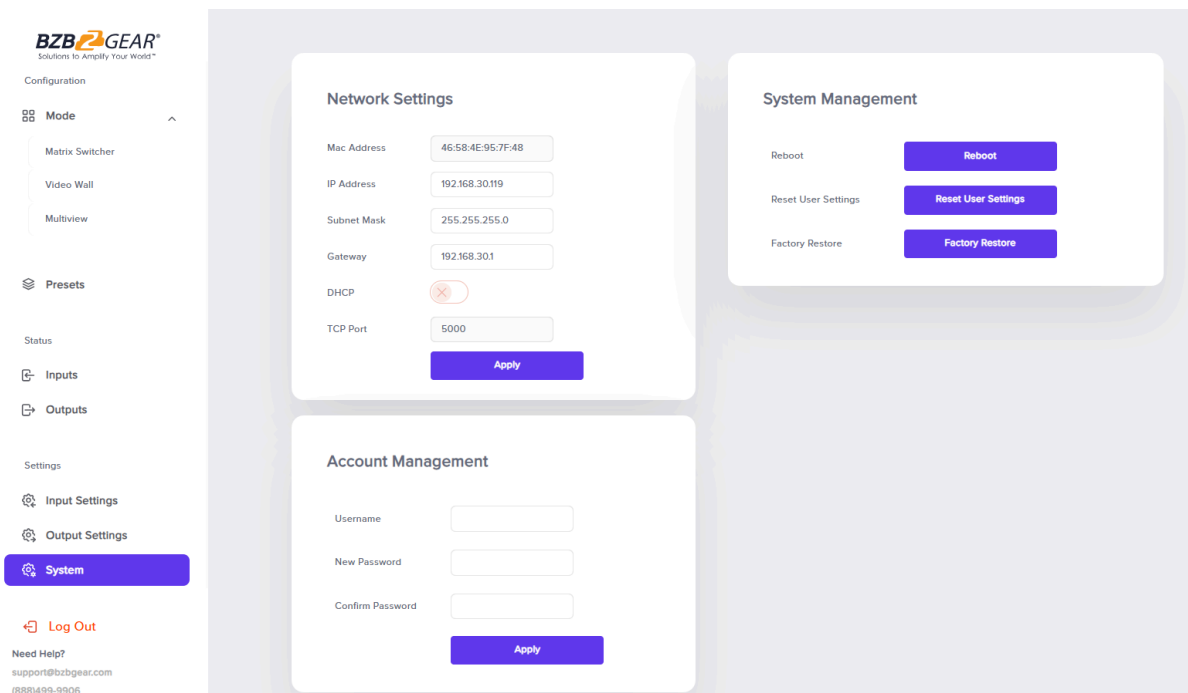
Output	Edit Name	Video	HDMI Audio	Audio Source	Audio Extraction	Resolution	Rotation
Out 1	Output 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 2	Output 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 3	Output 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 4	Output 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 5	Output 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 6	Output 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 7	Output 7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
Out 8	Output 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>
All		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Audio Follow	<input checked="" type="checkbox"/>	Follow Inpu	<input checked="" type="checkbox"/>



Customize each output port's behavior:

- Assign custom names to each output
- Enable or disable video and HDMI audio streams
- Select the audio source for each output
- Enable or disable audio extraction
- Adjust the output resolution
- Rotate the video output by 180° when needed

System Settings



The **System Settings** page offers complete system management:

- **Network Settings:**
 - MAC Address
 - IP Address
 - Subnet Mask
 - Gateway
 - DHCP configuration
 - TCP Port settings



- **System Management:**
 - Reboot the device
 - Reset user settings
 - Perform a factory reset

- **Account Management:**
 - Create and manage user accounts



HDCP

HDMI Output	Device1 HDCP2.2/1.4	Device2 HDCP1.4	Device3 NO HDCP
HDCP2.2	HDCP2.2	/	No signal
HDCP1.4	HDCP1.4	HDCP1.4	No signal
Off HDCP	NO HDCP	NO HDCP	NO HDCP

Factory Default Setting

1) Video: P-to-P, 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8

2) Audio: Audio Embedding turn off, HDMI Output audio on, Extraction on

3) Network:

- Static IP address
- 192.168.1.200
- Sub net: 255.255.255.000
- Gateway: 192.168.1.1
- Port: TCP: 5000, UDP:5001, Telnet:23
- Web GUI & Telnet:
- Login: admin
- Password: admin
- MAC Address (cannot be modified)



BZBGear Switch Control App

BG-Switch-Control | Quick User Guide



BZBGear Switch Control App



Overview

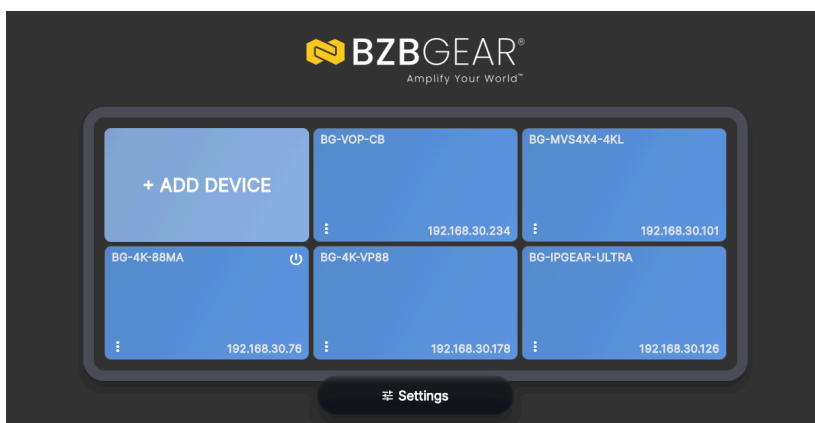
The **BZBGear Switch Control App (BG-Switch-Control)** is a multi-platform network control application for compatible BZBGear matrix switchers. It provides centralized control of **video routing, audio routing, presets, and video wall configurations** through an intuitive graphical interface.

Platform Compatibility

Supported operating systems:

- **Windows**
- **macOS**
- **iOS**
- **Android**
- All control devices must be connected to the **same local network** as the matrix switcher.

Connection & Startup



1. Connect the BZBGear matrix switcher to the local network.
2. Connect the control device (PC, tablet, or smartphone) to the same network.
3. Launch the **BG-Switch-Control App**.



4. Select the correct product from the (Add Device) drop-down list
5. Fill in the device information (IP address, name, etc.)

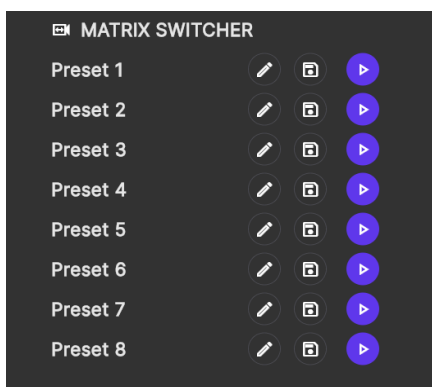
Matrix Switching



- Rename input and output sources (Optional)
- Press and hold an input source.
- Drag the input from the **Inputs panel** to the desired output.
- Release to complete the assignment.
- A single input can be routed to **multiple outputs simultaneously**.

Preset Management

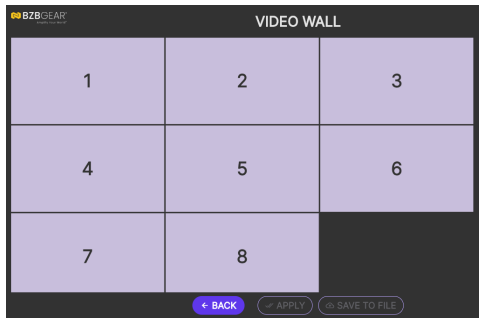
Presets allow quick saving and recall of system configurations.



1. Configure routing or video wall settings.
2. Select **Save as Preset**.
3. Assign a preset number and name.
4. Recall presets at any time to instantly restore configurations.



Video Wall Control



- Select **Create Video Wall**.
- Drag and arrange outputs into the desired layout.
- Select a source to span across the video wall.
- Select **Set Video Wall** to apply.
 - Video walls appear on the main screen and support **real-time switching** and **preset storage**.

Pass-Through Mode

Pass-Through mode restores a direct, default input-to-output mapping.

This mode is useful for:

- System resets
- Testing
- Simplified routing

Refresh Data

The **Refresh Data** function resynchronizes the app with the connected switcher.

Use this if configuration changes are made or if the interface appears out of sync.

App Capabilities

- Matrix video routing
- Video wall creation and control
- Preset save and recall
- Audio matrix control (*supported devices*)
- Multi-user access with role-based permissions
- Multi-platform operation



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

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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