

# BZ-MVS4X4-4K

## Crestron Driver User Manual







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## Statement

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

## Safety Precaution

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- 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
- Do not hot plug when it is working.



## Introduction

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This driver has been designed to provide control for the BZBGear BZ-MVS4X4-4K HDMI Matrix Switcher via RS232 and TCP/IP.

## Installation

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- You will need to copy all of the files in the folder to your project directory to allow Simpl Windows to recognize the driver module.
- **When using RS-232 for the connection use the following settings:**
  - **Baud Rate:** 9600
  - **Data Bits:** 8
  - **Stop Bits:** 1
  - **Parity:** None
- **When using TCP/IP for the connection use the following settings:**
  - **IP:** The IP you set for the product. (Default: 192.168.0.247)
  - **Port:** The port you set for the product. (Default: 23)



## Inputs

The module has the following commands available as inputs:

Command	Type	Description
RX_Buffer	String	Product information feedback input.
GetSystemStatus	Digital	Get the status of the system, trigger on the rising edge.
GetInxFormatStatus	Digital	Get the status of the HDMI input format, trigger on the rising edge.
GetOutxTypeStatus	Digital	Get the status of the HDMI output type, trigger on the rising edge.
GetOutxFormatStatus	Digital	Get the status of the HDMI output format, trigger on the rising edge.
Preset_Recall[X]	Digital	Recall the saved preset (X range is 1-8)
Preset_Save[X]	Digital	Save the preset (X range is 1-8)
AudioOnlyOpen	Digital	Turn on the standalone playback mode.
AudioOnlyClose	Digital	Turn off the standalone playback mode.
AudioModeManual	Digital	Set the sound mode: manual setting.
AudioModeAuto	Digital	Set the sound mode: follow video.
OutxMarginLeft[X]	Analog	In splicing mode, adjust the size of the left margin of output port x (x range 1-4). [X] = 0 min - 100 max
OutxMarginRight[X]	Analog	In splicing mode, adjust the size of the right margin of output port x (x range 1-4). [X] = 0 min - 100 max
OutxMarginTop[X]	Analog	In splicing mode, adjust the size of the top margin of output port x (x range 1-4). [X] = 0 min - 100 max
OutxMarginBottom[X]	Analog	In splicing mode, adjust the size of the bottom margin of output port x (x range 1-4). [X] = 0 min - 100 max
TVWallModeSelect[X]	Digital	Configure the video wall mode [X] (X range is 1-7) 1. 2x1 (row x column) 2. 1x2 3. 1x3 4. 3x1 5. 4x1 6. 1x4 7. 2x2
CancelTVWall	Digital	Cancel the TV wall screen splice.



Command	Type	Description
SetVideoRouting[X]	Analog	Output port X (range 1-4) to select the video input source: 1. Input 1 2. Input 2 3. Input 3 4. Input 4
SetAudioRouting[X]	Analog	Output port X (range 1-4) to select the audio input source: 1. Input 1 2. Input 2 3. Input 3 4. Input 4
SetInxAudioEmbedded[X]	Digital	Set the output X (range 1-4) audio to automatic mode. 0. invalid 1. open automatic mode
SetInxAudioLR[X]	Digital	Set the output X (range 1-4) Audio to external mode. 0. invalid 1. open external mode
SetOutType[X]	Analog	Set output X (range 1-4) video type: 1. UHD HDMI 2. UHD DVI 3. UHD HDMI 1.4 4. UHD HDMI 2.2
SetOutputFormat[X]	Analog	Output port X (range 1-4) select output format:
		1. 3840x2160p60      9. 1400x1050p60
		2. 3840x2160p50      10. 1366x768p60
		3. 3840x2160p30      11. 1360x768p60
		4. 3840x2160p25      12. 1280x1024p60
		5. 1920x1200p60      13. 1280x768p60
		6. 1920x1080p60      14. 1280x720p50
		7. 1920x1080p50      15. 1280x720p60
		8. 1600x1200p60      16. 1024x768p60



## Outputs

The module has the following commands available to be used as feedback outputs:

Command	Type	Description
TX_Buffer	String	Equipment control command issuance.
FB_InxFormat[X]	String	Input format feedback of input X (range 1-4) channel.
FB_Preset[X]	Digital	Save a preset or recall the preset X (range 1-4) feedback.
FB_AudioOnlyOpen	Digital	Independent audio playback mode feedback: 0. invalid 1. support independent playback.
FB_AudioOnlyClose	Digital	Independent audio playback mode feedback: 0. invalid 1. No independent playback.
FB_AudioModeManual	Digital	Audio manual mode setting feedback: 0. invalid 1. open manual mode.
FB_AudioModeAuto	Digital	Audio auto mode setting feedback: 0. invalid 1. open auto mode.
FB_TVWall_Mode[X]	Digital	Spliced wall mode X (range 1-7) feedback: 0. the preset was recalled or saved successfully. 1. The preset was not recalled or saved.
FB_SetVideoRouting[X]	Analog	Output port X (range 1-4) to select the video input source feedback: 1. Input 1 2. Input 2 3. Input 3 4. Input 4
FB_SetAudioRouting[X]	Analog	Output port X (range 1-4) to select the audio input source feedback: 1. Input 1 2. Input 2 3. Input 3 4. Input 4
FB_SetInxAudioEmbedded[X]	Digital	Output X (range 1-4) audio to automatic mode feedback. 0. invalid 1. open automatic mode





FB_SetInxAudioLR[X]	Digital	Output X (range 1-4) Audio to external mode feedback. 0. invalid 1. open external mode	
FB_OutxType[X]	Analog	Set output X (range 1-4) video type feedback: 1. UHD HDMI 2. UHD DVI 3. UHD HDMI 1.4 4. UHD HDMI 2.2	
FB_SetOutputFormat[X]	Analog	Output port X (range 1-4) select output format feedback:	
		1. 3840x2160p60	9. 1400x1050p60
		2. 3840x2160p50	10. 1366x768p60
		3. 3840x2160p30	11. 1360x768p60
		4. 3840x2160p25	12. 1280x1024p60
		5. 1920x1200p60	13. 1280x768p60
		6. 1920x1080p60	14. 1280x720p50
		7. 1920x1080p50	15. 1280x720p60
		8. 1600x1200p60	16. 1024x768p60



## Tech Support

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Have technical questions? We may have answered them already!

Please visit BZBGear's support page ([bzbgear.com/support](http://bzbgear.com/support)) for helpful information and tips regarding our products. Here you will find our Knowledge Base ([bzbgear.com/knowledge-base](http://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](http://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:

<u>Phone</u>	<u>Email</u>	<u>Live Chat</u>
1.888.499.9906	<a href="mailto:support@bzbgear.com">support@bzbgear.com</a>	<a href="http://bzbgear.com">bzbgear.com</a>

## Warranty

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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](http://bzbgear.com/warranty).

For questions, please call 1.888.499.9906 or email [support@bzbgear.com](mailto:support@bzbgear.com).

## Mission Statement

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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.

## Copyright

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