

BG-UHD-VW29

Crestron Driver 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
- Do not hot plug when it is working.



Introduction

This driver has been designed to provide control for the BZBGear BG-UHD-VW29 via TCP/IP.

Installation

- 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 TCP/IP for the connection use the following settings:**
 - **IP:** The IP you set for the product.
 - **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	S	Product information feedback input
GetInxFormatStatus	D	Get the status of the HDMI input format. Trigger on the rising edge.
GetSystemStatus	D	Get the status of the system. Trigger on the rising edge.
Source_A_to_all	D	Press to send Input A to all Output
Source_B_to_all	D	Press to send Input B to all Output
GetOutxTypeStatus	D	Get the status of the HDMI output type. Trigger on the rising edge.
GetOutxFormatStatus	D	Get the status of the HDMI output format. Trigger on the rising edge.
Preset_Recall[X]	D	Recall the saved preset (X range 1-10).
Preset_Save[X]	D	Save the preset (X range 1-10).
Set_B_MAIN_loop_out[X]	A	Input port X (range 1-2) to select the video output main loop. 1. Input A 2. Input B
Set_Audio_Output[X]	A	Input port X(range 1-2) to select the audio output. 1. Input A 2. Input B
OutxMarginLeft[X]	A	In splicing mode, adjust the size of the left margin of the output port x(range 1-9). [X] range 0-100.
OutxMarginRight[X]	A	In splicing mode, adjust the size of the right margin of the output port x(range 1-9). [X] range 0-100.
OutxMarginTop[X]	A	In splicing mode, adjust the size of the top margin of the output port x(range 1-9). [X] range 0-100.
OutxMarginBottom[X]	A	In splicing mode, adjust the size of the bottom margin of the output port x(range 1-9). [X] range 0-100.
TvWall_Mode_[X]	D	Configure the video wall mode [X] (range 1-12).
		1) 2x1 (row x column) 7) 2x2
		2) 1x2 8) 2x3
		3) 1x3 9) 3x3
		4) 3x1 10) 4x2



Command	Type	Description	
		5) 4x1	11) 2x4
		6) 1x4	12) 3x3
SetMargin1x2_Out[1]	D	Press to send margin output 1 to videowall 1x2.	
SetMargin1x2_Out[2]	D	Press to send margin output 2 to videowall 1x2.	
SetMargin1x3_Out[1]	D	Press to send margin output 1 to videowall 1x3.	
SetMargin1x3_Out[2]	D	Press to send margin output 2 to videowall 1x3.	
SetMargin1x3_Out[3]	D	Press to send margin output 3 to videowall 1x3.	
SetMargin3x1_Out[1]	D	Press to send margin output 1 to videowall 3x1.	
SetMargin3x1_Out[2]	D	Press to send margin output 2 to videowall 3x1.	
SetMargin3x1_Out[3]	D	Press to send margin output 3 to videowall 3x1.	
SetMargin4x1_Out[1]	D	Press to send margin output 1 to videowall 4x1.	
SetMargin4x1_Out[2]	D	Press to send margin output 2 to videowall 4x1.	
SetMargin4x1_Out[3]	D	Press to send margin output 3 to videowall 4x1.	
SetMargin4x1_Out[4]	D	Press to send margin output 4 to videowall 4x1.	
SetMargin1x4_Out[1]	D	Press to send margin output 1 to videowall 1x4.	
SetMargin1x4_Out[2]	D	Press to send margin output 2 to videowall 1x4.	
SetMargin1x4_Out[3]	D	Press to send margin output 3 to videowall 1x4.	
SetMargin1x4_Out[4]	D	Press to send margin output 4 to videowall 1x4.	
SetMargin2x2_Out[1]	D	Press to send margin output 1 to videowall 2x2.	
SetMargin2x2_Out[2]	D	Press to send margin output 2 to videowall 2x2.	
SetMargin2x2_Out[3]	D	Press to send margin output 3 to videowall 2x2.	
SetMargin2x2_Out[4]	D	Press to send margin output 4 to videowall 2x2.	
SetMargin3x2_Out[1]	D	Press to send margin output 1 to videowall 3x2.	
SetMargin3x2_Out[2]	D	Press to send margin output 2 to videowall 3x2.	
SetMargin3x2_Out[3]	D	Press to send margin output 3 to videowall 3x2.	
SetMargin3x2_Out[4]	D	Press to send margin output 4 to videowall 3x2.	
SetMargin3x2_Out[5]	D	Press to send margin output 5 to videowall 3x2.	
SetMargin3x2_Out[6]	D	Press to send margin output 6 to videowall 3x2.	



Command	Type	Description
SetMargin2x3_Out[1]	D	Press to send margin output 1 to videowall 2x3.
SetMargin2x3_Out[2]	D	Press to send margin output 2 to videowall 2x3.
SetMargin2x3_Out[3]	D	Press to send margin output 3 to videowall 2x3.
SetMargin2x3_Out[4]	D	Press to send margin output 4 to videowall 2x3.
SetMargin2x3_Out[5]	D	Press to send margin output 5 to videowall 2x3.
SetMargin2x3_Out[6]	D	Press to send margin output 6 to videowall 2x3.
SetMargin2x4_Out[1]	D	Press to send margin output 1 to videowall 2x4.
SetMargin2x4_Out[2]	D	Press to send margin output 2 to videowall 2x4.
SetMargin2x4_Out[3]	D	Press to send margin output 3 to videowall 2x4.
SetMargin2x4_Out[4]	D	Press to send margin output 4 to videowall 2x4.
SetMargin2x4_Out[5]	D	Press to send margin output 5 to videowall 2x4.
SetMargin2x4_Out[6]	D	Press to send margin output 6 to videowall 2x4.
SetMargin2x4_Out[7]	D	Press to send margin output 7 to videowall 2x4.
SetMargin2x4_Out[8]	D	Press to send margin output 8 to videowall 2x4.
SetMargin4x2_Out[1]	D	Press to send margin output 1 to videowall 4x2.
SetMargin4x2_Out[2]	D	Press to send margin output 2 to videowall 4x2.
SetMargin4x2_Out[3]	D	Press to send margin output 3 to videowall 4x2.
SetMargin4x2_Out[4]	D	Press to send margin output 4 to videowall 4x2.
SetMargin4x2_Out[5]	D	Press to send margin output 5 to videowall 4x2.
SetMargin4x2_Out[6]	D	Press to send margin output 6 to videowall 4x2.
SetMargin4x2_Out[7]	D	Press to send margin output 7 to videowall 4x2.
SetMargin4x2_Out[8]	D	Press to send margin output 8 to videowall 4x2.
SetMargin3x3_Out[1]	D	Press to send margin output 1 to videowall 3x3.
SetMargin3x3_Out[2]	D	Press to send margin output 2 to videowall 3x3.
SetMargin3x3_Out[3]	D	Press to send margin output 3 to videowall 3x3.
SetMargin3x3_Out[4]	D	Press to send margin output 4 to videowall 3x3.
SetMargin3x3_Out[5]	D	Press to send margin output 5 to videowall 3x3.
SetMargin3x3_Out[6]	D	Press to send margin output 6 to videowall 3x3.



Command	Type	Description
SetMargin3x3_Out[7]	D	Press to send margin output 7 to videowall 3x3.
SetMargin3x3_Out[8]	D	Press to send margin output 8 to videowall 3x3.
SetMargin3x3_Out[9]	D	Press to send margin output 9 to videowall 3x3.
SetVideoRouting[X]	A	Input port X (range 1-2) to select the video output source:
		1) Output 1 6) Output 6
		2) Output 2 7) Output 7
		3) Output 3 8) Output 8
		4) Output 4 9) Output 9
		5) Output 5
SetOutType[X]	A	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]	A	Output port X (range 1-14) select output format:
		1) 3840x2160p60 8) 1366x768p60
		2) 3840x2160p50 9) 1360x768p60
		3) 1920x1200p60 10) 1280x1024p60
		4) 1920x1080p60 11) 1280x768p60
		5) 1920x1080p50 12) 1280x720p50
		6) 1600x1200p60 13) 1280x720p60
		7) 1400x1050p60 14) 1024x768p60



Outputs

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

Command	Type	Description
TX_Buffer	S	Equipment control command issuance.
FB_InxFormat[X]	S	Input format feedback of input channel X (range 1-4).
FB_IN1_Audio-Route_LR	D	Source selected to route audio.
FB_IN2_Audio-Route_LR	D	Source selected to route audio.
FB_Preset[X]	D	Save a preset or recall the preset X (range 1-4) feedback
FB_TvWall_Mode_[X]	D	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]	A	Input port x (range 1-2) to select the video output source feedback: 1) Output 1 2) Output 2 3) Output 3 4) Output 4 5) Output 5 6) Output 6 7) Output 7 8) Output 8 9) Output 9
FB_OutxType[X]	A	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_OutxFormat[X]	A	Output port x (range 1-9) video type feedback [X] (range 1-14):
		1) 3840x2160p60 8) 1366x768p60
		2) 3840x2160p50 9) 1360x768p60
		3) 1920x1200p60 10) 1280x1024p60
		4) 1920x1080p60 11) 1280x768p60
		5) 1920x1080p50 12) 1280x720p50
		6) 1600x1200p60 13) 1280x720p60
		7) 1400x1050p60 14) 1024x768p60



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:

<u>Phone</u>	<u>Email</u>	<u>Live Chat</u>
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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