

# Blustream ACM200 Q-SYS Plugin Installation and Usage Guide



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## Overview

The Blustream UHD Multicast distribution platform allows distribution of HDMI video over a 1GB Network switch. The ACM200 / ACM500 Advanced Control Module allows for control of the Multicast system from QSC Q-SYS via TCP/IP.

The FREE plugin developed by Chowmain will integrate the UHD Multicast distribution series of Blustream devices via the Blustream ACM200 / ACM500

# Features

- Full two way IP control & feedback.
- Output Page
  - Set Input
  - Fix Video Input
  - Fix Audio Input
  - Fix IR Input
  - Fix RS232 Input
  - Fix USB Input
  - Fix CEC Input
  - Analogue Output
  - HDMI Output
  - Dante Output
- Input Page
  - Set Audio
  - Set Analogue Input
  - Set HDMI Input
  - Set Dante Input
- Multiview
  - Output Preset
  - Output Layout
  - Set Output Multiview Window to Input
- Video Wall
  - Output Matrix Mode
  - Output Video Wall Mode
  - Set Input on Videowall ID to Config for Group
- Control
  - Input
  - Reboot
  - CEC Power On
  - CEC Power Off
  - CEC Video Left
  - CEC Video Right
  - CEC Video Up
  - CEC Video Down
  - CEC Video Enter
  - CEC Video Menu
  - CEC Video Back
  - CEC Video Backward
  - CEC Video Forward
  - CEC Video Play

- CEC Video Rew
- CEC Video FF
- CEC Video Pause
- CEC Video Stop
- CEC Volume Down
- CEC Volume Up
- CEC Volume Mute
- Send RS232
- Send IR
- Output
- Reboot
- Output On/Off
- Output Blank
- Output Pause
- Output Auto On
- CEC Power On
- CEC Power Off
- CEC Video Left
- CEC Video Right
- CEC Video Up
- CEC Video Down
- CEC Video Enter
- CEC Video Menu
- CEC Video Back
- CEC Video Backward
- CEC Video Forward
- CEC Video Play
- CEC Video Rew
- CEC Video FF
- CEC Video Pause
- CEC Video Stop
- CEC Volume Down
- CEC Volume Up
- CEC Volume Mute
- Send RS232
- Send IR

## Change Log

### Version #1.0.0.0 - 19-JUL-2023

- Initial Version

## Prerequisites

Before configuring the plugin:

- In a web browser, navigate to the Blustream ACM-200 / ACM-500's IP address to initially configure the device
- - Either Setup a static IP Address or reserve an IP address for the ACM-200 / ACM-500
  - If you plan on using the Transmitters or Receivers as serial outputs then please enable '**Serial Guest Mode**' on each device and pre-setup the baud rate, data bits, parity and stop bits that match the serial device. Note that if you use serial guest mode you will not be able to use fixed serial routing.
  - Pre-setup any **video wall configurations** and **multiview configurations**.

## Configuration Overview

1. Drag the plugin into your schematic
2. Select the plugin and fill in the properties. See Properties
3. Press F5 to save your design to the Core and run it. (Or, press F6 to emulate your design.)
4. In your schematic, double-click the plugin to open the component's control panel.
5. Click on the Setup page and configure the IP Address of the ACM-200 / ACM-500.
6. Test communications by switching outputs to inputs on the outputs page.

## Properties

Property	Function	Default / Range
ACMType	The ACM-500 unit supports Multiview where the ACM-200 does not. This shows / hides the Multiview page.	ACM500 / ACM200
Number of Inputs	This is the total number of transmitters (inputs) on the ACM-200 / ACM-500 unit.	Default 5
Number of Outputs	This is the total number of receivers (outputs) on the ACM-200 / ACM-500 unit.	Default 5
Enable Controls Page	This enables the Controls Page / Pins. Set to False on larger installations	False / False
Enable Input CEC Controls	This enables the input CEC Controls / Pins. Set to False on larger installations	False / False
Enable Output CEC	This enables the output CEC Controls / Pins. Set to False on larger	False / False

Property	Function	Default / Range
Controls	installations	

## Controls

### Setup Page

Control	Function	Default / Range
IP Address	Used to input the IP address of the ACM-200 / ACM-500. Note must be a valid xxx.xxx.xxx.xxx IP address	IP Address
Device Status	Shows the device status	N/A

### Output Page

Control	Function	Default / Range
Output x Set Input	Switches the receiver to a transmitter	1 - Number of Inputs
Output x Fix Video Input	Fixes the receiver's Video source to a transmitter	1 - Number of Inputs
Output x Fix Audio Input	Fixes the receiver's Audio source to a transmitter	1 - Number of Inputs
Output x Fix IR Input	Fixes the receiver's IR source to a transmitter	1 - Number of Inputs
Output x Fix RS232 Input	Fixes the receiver's RS232 source to a transmitter	1 - Number of Inputs
Output x Fix USB Input	Fixes the receiver's USB source to a transmitter	1 - Number of Inputs
Output x Fix CEC Input	Fixes the receiver's CEC source to a transmitter	1 - Number of Inputs
Output x Analogue Output	Sets source for the receiver's Analogue Output	HDMI / Dante
Output x HDMI Output	Sets source for the receiver's HDMI Output	HDMI / Dante
Output x Dante Output	Sets source for the receiver's Dante Output	HDMI / SPDIF

### Input Page

Control	Function	Default / Range
Input x Set Audio	Sets the transmitter's audio to hdmi or embedded analogue	Auto / HDMI / Embedded Analogue
Input x Set Analogue Input	Sets the transmitter's analogue input to hdmi or embedded analogue audio	HDMI / Dante



Control	Function	Default / Range
Input x Set HDMI Input	Sets the transmitter's hdmi audio to analogue output, hdmi output or dante output.	Analogue Output / HDMI Output / Dante Output
Input x Set Dante Input	Sets the transmitter's dante audio to analogue output or hdmi output	Analogue Output / HDMI Output

## Multiview Page (ACM-500 Only)

Control	Function	Default / Range
Output x Preset	Switches the Output to a multiview preset	1-Number of Presets
Output x Layout	Switches the Output to a multiview layout	1-Number of Layouts
Multiview Window Output	Is the Output used in the Multiview. Used in conjunction with Output, ID, Input and Set.	1-Number of Outputs
Multiview Window ID	Is the Multiview ID used in the Multiview. Used in conjunction with Output, ID, Input and Set.	1-Number of Window IDs
Multiview Window Input	Is the Input used in the Multiview. Used in conjunction with Output, ID, Input and Set.	1-Number of Inputs
Multiview Set	Sets the Multiview Output's ID and Input. Used in conjunction with Output, ID, Input and Set.	Set Button

## Video Wall

Control	Function	Default / Range
Output x Matrix Mode	Switches Output to Matrix Mode	Button
Output x Video Wall Mode	Switches Output to Video Wall Mode	Button
Set Video Wall ID	This is the Video Wall ID you want to set. Used in conjunction with ID, Config, Group, Input and Set.	1-Number of Video Wall IDs
Set Video Wall Config	This is the Video Wall Config you want to set. Used in conjunction with ID, Config, Group, Input and Set.	1-Number of Video Wall Configs
Set Video Wall Group	This is the Video Wall Group you want to set. Used in conjunction with ID, Config, Group, Input and Set.	1-Number of Video Wall Groups
Set Video Wall Input	This is the input you want to switch to the Video Wall. Used in	1-Number of Inputs

Control	Function	Default / Range
	conjunction with ID, Config, Group, Input and Set.	
Set Video Wall Set	Sets the Videowall's ID, Config, Group and Input. Used in conjunction with ID, Config, Group, Input and Set.	Set Button

## Controls

Control	Function	Default / Range
Input x Reboot	Reboots the transmitter	Button
Input x CEC Power On	Sends a CEC Power On Command	Button
Input x CEC Power Off	Sends a CEC Power Off Command	Button
Input x CEC Video Left	Sends a CEC Video Left Command	Button
Input x CEC Video Right	Sends a CEC Video Right Command	Button
Input x CEC Video Up	Sends a CEC Video Up Command	Button
Input x CEC Video Down	Sends a CEC Video Down Command	Button
Input x CEC Video Enter	Sends a CEC Video Enter Command	Button
Input x CEC Video Menu	Sends a CEC Video Menu Command	Button
Input x CEC Video Back	Sends a CEC Video Back Command	Button
Input x CEC Video Backward	Sends a CEC Video Backward Command	Button
Input x CEC Video Forward	Sends a CEC Video Forward Command	Button
Input x CEC Video Play	Sends a CEC Video Play Command	Button
Input x CEC Video Rew	Sends a CEC Video Rew Command	Button
Input x CEC Video FF	Sends a CEC Video FF Command	Button
Input x CEC Video Pause	Sends a CEC Video Pause Command	Button
Input x CEC Video Stop	Sends a CEC Video Stop Command	Button
Input x CEC Volume Down	Sends a CEC Volume Down Command	Button
Input x CEC Volume Up	Sends a CEC Volume Up Command	Button
Input x CEC Volume Mute	Sends a CEC Volume Mute Command	Button

Control	Function	Default / Range
Input x Send RS232	Sends a one-way RS232 string	RS232 String (ASCII or raw bytes)
Input x Send IR	Sends a Pronto Hex encoded IR code	IR String (Pronto Hex encoded)
Output x Reboot	Reboots the receiver	Button
Output x Output On/Off	Turns the receiver On or Off	ON / OFF
Output x Output Blank	Sets the receiver's output to blank or unblank	ON / OFF
Output x Output Pause	Pauses / Unpauses the receiver's video output	ON / OFF
Output x Output Auto On	Sets the receiver to auto on / off	ON / OFF
Output x Show ID	Shows the ID of the receiver on the display	Button
Output x Hide ID	Hides the ID of the receiver	Button
Output x CEC Power On	Sends a CEC Power On Command	Button
Output x CEC Power Off	Sends a CEC Power Off Command	Button
Output x CEC Video Left	Sends a CEC Video Left Command	Button
Output x CEC Video Right	Sends a CEC Video Right Command	Button
Output x CEC Video Up	Sends a CEC Video Up Command	Button
Output x CEC Video Down	Sends a CEC Video Down Command	Button
Output x CEC Video Enter	Sends a CEC Video Enter Command	Button
Output x CEC Video Menu	Sends a CEC Video Menu Command	Button
Output x CEC Video Back	Sends a CEC Video Back Command	Button
Output x CEC Video Backward	Sends a CEC Video Backward Command	Button
Output x CEC Video Forward	Sends a CEC Video Forward Command	Button
Output x CEC Video Play	Sends a CEC Video Play Command	Button
Output x CEC Video Rew	Sends a CEC Video Rew Command	Button
Output x CEC Video FF	Sends a CEC Video FF Command	Button
Output x CEC Video Pause	Sends a CEC Video Pause Command	Button
Output x CEC Video Stop	Sends a CEC Video Stop Command	Button

Control	Function	Default / Range
Output x CEC Volume Down	Sends a CEC Volume Down Command	Button
Output x CEC Volume Up	Sends a CEC Volume Up Command	Button
Output x CEC Volume Mute	Sends a CEC Volume Mute Command	Button
Output x Send RS232	Sends a one-way RS232 string	RS232 String (ASCII or raw bytes)
Output x Send IR	Sends a Pronto Hex encoded IR code	IR String (Pronto Hex encoded)

## Control Pins

Pin Name	Value	String	Pins Available
Input~Analogue Input		HDMI / Dante	Input / Output
Input~Audio		Auto / HDMI / Embedded Analogue	Input / Output
Input~CEC Power Off Command	trigger		Input / Output
Input~CEC Power On Command	trigger		Input / Output
Input~CEC Video Back Command	trigger		Input / Output
Input~CEC Video Backward Command	trigger		Input / Output
Input~CEC Video Down Command	trigger		Input / Output
Input~CEC Video Enter Command	trigger		Input / Output
Input~CEC Video FF Command	trigger		Input / Output
Input~CEC Video Forward Command	trigger		Input / Output
Input~CEC Video Left Command	trigger		Input / Output
Input~CEC Video Menu Command	trigger		Input / Output
Input~CEC Video Pause Command	trigger		Input / Output
Input~CEC Video Play Command	trigger		Input / Output
Input~CEC Video Rew Command	trigger		Input / Output
Input~CEC Video Right Command	trigger		Input / Output

Pin Name	Value	String	Pins Available
Input~CEC Video Stop Command	trigger		Input / Output
Input~CEC Video Up Command	trigger		Input / Output
Input~CEC Volume Down Command	trigger		Input / Output
Input~CEC Volume Mute Command	trigger		Input / Output
Input~CEC Volume Up Command	trigger		Input / Output
Input~Dante Input		Analogue Output / HDMI Output	Input / Output
Input~HDMI Input		Analogue Output / HDMI Output / Dante Output	Input / Output
Input~IR Command		Pronto Hex Encoded IR code	Input / Output
Input~Reboot	trigger		Input / Output
Input~RS232 Command		ASCII or raw byte RS232 command	Input / Output
Multiview~Input		0-number of inputs	Input / Output
Multiview~Output		0-number of outputs	Input / Output
Multiview~Set	trigger		Input / Output
Multiview~Window ID		0-number of windows	Input / Output
Output~Analogue Output		HDMI / Dante	Input / Output
Output~Auto On		On / Off	Input / Output
Output~CEC Power Off Command	trigger		Input / Output
Output~CEC Power On Command	trigger		Input / Output
Output~CEC Video Back Command	trigger		Input / Output
Output~CEC Video Backward Command	trigger		Input / Output
Output~CEC Video Down Command	trigger		Input / Output
Output~CEC Video Enter Command	trigger		Input / Output
Output~CEC Video FF Command	trigger		Input / Output
Output~CEC Video Forward Command	trigger		Input / Output

Pin Name	Value	String	Pins Available
Output~CEC Video Left Command	trigger		Input / Output
Output~CEC Video Menu Command	trigger		Input / Output
Output~CEC Video Pause Command	trigger		Input / Output
Output~CEC Video Play Command	trigger		Input / Output
Output~CEC Video Rew Command	trigger		Input / Output
Output~CEC Video Right Command	trigger		Input / Output
Output~CEC Video Stop Command	trigger		Input / Output
Output~CEC Video Up Command	trigger		Input / Output
Output~CEC Volume Down Command	trigger		Input / Output
Output~CEC Volume Mute Command	trigger		Input / Output
Output~CEC Volume Up Command	trigger		Input / Output
Output~Dante Output		SPDIF / HDMI	Input / Output
Output~HDMI Output		HDMI / Dante	Input / Output
Output~Hide ID	trigger		Input / Output
Output~Input	0-number of inputs		Input / Output
Output~Input Audio	0-number of inputs		Input / Output
Output~Input CEC	0-number of inputs		Input / Output
Output~Input IR	0-number of inputs		Input / Output
Output~Input RS232	0-number of inputs		Input / Output
Output~Input USB	0-number of inputs		Input / Output

Pin Name	Value	String	Pins Available
Output~Input Video	0-number of inputs		Input / Output
Output~IR Command		Pronto Hex Encoded IR code	Input / Output
Output~Matrix Mode	trigger		Input / Output
Output~Multiview Layout		0-number of multiview layouts	Input / Output
Output~Multiview Preset		0-number of multiview presets	Input / Output
Output~Mute		On / Off	Input / Output
Output~On		On / Off	Input / Output
Output~Pause		On / Off	Input / Output
Output~Reboot	trigger		Input / Output
Output~RS232 Command		ASCII or raw byte RS232 command	Input / Output
Output~Show ID	trigger		Input / Output
Output~Videowall Mode		0-number of videowall modes	Input / Output
Settings~IP Address		IPv4 Address	Input / Output
Video Wall~ID		0-number of videowall ids	Input / Output
Video Wall~Input		0-number of inputs	Input / Output
Video Wall~Set	trigger		Input / Output

## FAQ

**How much does this driver cost?**

This driver is sponsored by Blustream and is FREE of charge

**Who do i contact for driver support?**

Please email [support@blustream.com.au](mailto:support@blustream.com.au) for technical support queries.

[Find out more about the Blustream ACM200](#)