



CM2-547 CORIOmaster2™ CORIOgrapher™ V3.5 and above

User Guide V1.4

Firmware version G503 and above PDF-CM2-547-V1.4 Sep 2022

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Welcome

Welcome to tvONE Help, the place to get help with your:

- CORIOmaster2[™]
- CORIOgrapher[™]

? Get more help

Help You can read more online. To open the online help, select ? Help in CORIOgrapher, or visit help.tvone.com/r/docs/cm2/home/1.

Meet CORIOmaster2

CORIOmaster2 connects to a wide range of sources and displays, and works with CORIOgrapher[™] software to allow you to build dynamic video installations with an easy-to-use visual interface.

Features

- >>> Output to monitors, LED screens, and projectors, including devices that support 8K with quad 4K @60 Hz
- >>> Our largest ever creative canvases at 64,000 x 64,000 pixels
- >>> Consumes less electricity than an equivalent PC based system
- Wide range of inputs, including HDMI, DVI, SDI, HDBaseT™, 4K, and streaming media
- >>>> Supports 4:4:4, 4:2:2, or 4:2:0 chroma subsampling on supported modules
- Supports up to HDCP 2.2 on supported modules
- >>> Embedded and S/PDIF audio support with S/PDIF audio module
- >>> New front panel status screen
- >>> Combination of different size and resolution of displays can be used
- Adjustable bezel compensation
- >>> Edge blending of projectors
- >>>> Up-down-cross conversion
- Window luminance keying supported on all modules
- >>> Control your video wall with CORIOgrapher, secure IP, or serial connection
- >>> HTTP and HTTPS connectivity, RESTful multi-user control, WebSocket event monitoring
- Horizontal alignment on analog PC inputs
- >>> Crestron module available
- ARU frame size

Meet CORIOgrapher

CORIOgrapher V3.5 is packed with features to help you create and manage your video walls.

- >>> Simple, powerful, software interface
- >>>> Save window configurations as presets and transition between presets
- >>> Rotate outputs in 1° increments
- >>> Choose sources for windows
- » Manage streaming media
- >>>> Use custom resolutions
- ≫ Manage EDID data
- >>> See your changes instantly with live changes mode
- >>> Undo and redo your work
- Control audio
- Configure labels, borders, and colors
- >>> Position your displays and windows with pixel-precision

Get to know your products

Learn about the features and functions of your hardware.

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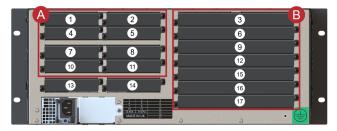
About your CORIOmaster2™

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- >>> Control your video wall with CORIOgrapher, secure IP, or serial connection
- >>> HTTP and HTTPS connectivity, RESTful multi-user control, WebSocket event monitoring
- >>> Horizontal alignment on analog PC inputs
- >>> Crestron module available
- >>> 4RU frame size

Slots



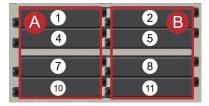
Your CORIOmaster2 has 17 slots.

Slots in area A are for input modules, slots in area B are for output modules. You can have up to eight input modules and up to seven output modules.

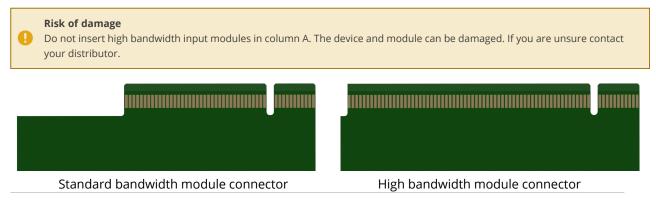
Slot 13 is for an S/PDIF and analog audio module, CM2-AUD-2IN-3OUT

Slot 14 is for a CPU module.

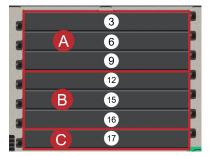
Rules for placing input modules



Standard bandwidth input modules can go in any position in column A and B, slots 1, 2, 4, 5, 7, 8, 10, and 11. High bandwidth input modules can only go in column B, slots 2, 5, 8, and 11.



Rules for placing output modules



Output slots are arranged into groups. Each group has the same amount of bandwidth. You must either:

• Fill all the slots of a group with modules

You can either fill all the slots with output modules, or you can fill empty slots in the group with bonding modules.

OR

Leave all the slots of a group empty

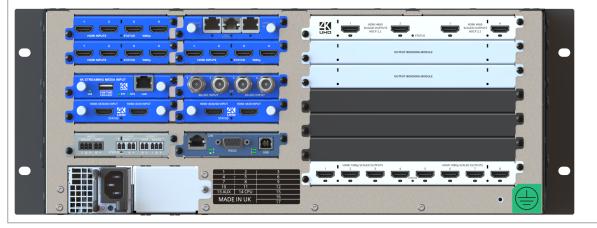
You don't need to use bonding modules in groups that contain no output modules.

Place output modules in the first slot of each group first, starting with group C, slot 17. Fill empty slots with bonding modules.

Groups are linked by bandwidth and also by canvases in CORIOgrapher. You can only use the outputs in a single group together on the same canvas. You can use more than one group on the same canvas, but if you want to use more than one canvas, you must use more than one group.

Show me an example

A CORIOmaster2 has two output modules. The first output module goes into group C, slot 17. The second goes into group A, slot 3. Bonding modules go into group A, slots 6 and 9. Group B contains no output modules, so it doesn't need any bonding modules.



CORIOmaster2 front panel



The front panel of your CORIOmaster2 includes a customizable status screen. The status screen can show the IP address of your CORIOmaster2, its status, and the name of the device.

CORIOmaster2 rear panel

Image: Second	· · ·

A	Input module (blue)	Connect to sources
B	Output module (white)	Connect to displays
C	Bonding module	Used to fill empty slots in a group
D	Optional audio module	Optional: connect to audio sources and/or playback devices
e	CPU module	Connect to your network with Ethernet Optional: connect to serial controller with RS-232 Optional: connect directly to a PC with Ethernet or RS-232
F	Power supply unit (PSU)	Connect to electrical outlet
G	Optional second PSU, sold separately	Optional: connect to electrical outlet

About modules

CORIOmaster2 supports a range of input and output modules, with model numbers starting with CM2-. Each module supports specific connections, but our range of adapters means you can connect almost any type of source to your CORIOmaster2.

See our range of available input and output modules for your CORIOmaster2 at help.tvone.com/r/docs/cm2/modules/1.

Input modules

Module	Product number	Connections
Quad 3G-SDI broadcast input module	CM2-3GSDI-4IN	4 x 3G-SDI up to 1080p @60 Hz
Dual DVI-U input module	CM2-DVIU-2IN	2 x DVI-U up to 1080p @60 Hz HDCP 1.4 compliant
Quad 1080p HDMI input module Read more about HDMI modules on page 10.	CM2-HDMI-4IN	4 x HDMI up to 1080p @60 Hz HDCP 1.4 compliant
Dual 4K HDMI input module	CM2-HDMI-4K-2IN	2 x HDMI
Read more about HDMI modules		HDCP 1.4 compliant
on page 10.		Supports up to 2 x 4K @30 Hz, or 1 x 4K @60 Hz
Quad 4K HDMI input module	CM2-HDMI-4K-4IN	4 x HDMI up to 4K @60 Hz
(high bandwidth) Read more about HDMI modules		Supports 4:4:4, 4:2:2, or 4:2:0 chroma subsampling
on page 10.		Supports up to HDCP 2.2
Dual 4K HDBaseT input module Read more about the HDBaseT	CM2-HDBT-2IN-1ETH	2 x HDBaseT Ethernet
module on page 9.		HDCP 1.4 compliant
Streaming media and 4K playback	CM2-AVIP-IN-1USB-1ETH-128	1 x USB 3.0
input module		1 x Ethernet
Read more about the Streaming media and 4K playback input		1x 128 GB SSD
module on page 8.		Supports up to 2 x 4K @30 Hz, or 1 x 4K @60 Hz

Output modules

Module	Product number	Connections
Quad 4K HDMI output module	CM2-HDMI-4K-4OUT	4 x HDMI up to 4K@60 Hz
Read more about HDMI modules on page 10.		Supports up to HDCP 2.2
Octad HDMI output module	CM2-HDMI-HD-8OUT	8 x HDMI up to 1080p@60 Hz
Read more about HDMI modules on page 10.		Supports up to HDCP 2.2

Bonding modules

Module	Product number
Output bonding module for CORIOmaster2 output modules.	CM2-BONDING

Read more about output bonding modules on page 135.

Audio modules

Module	Product number	Connections
S/PDIF and analog audio module	CM2-AUD-2IN-3OUT	Input:
Read more about the S/PDIF and		1 x analog and 1 x S/PDIF
analog audio module on page 18.		Output:
		1 x analog and 3 x S/PDIF

Power supply module

Module	Product number	Connections
Redundant PSU for 4RU series units	CM2-4RPS	1 x IEC power cord
Redundant 700W PSU for 4RU series units	CM2-4RPS-700	1 x IEC power cord

Adapters

You can use our adapters to connect any of the following formats to the DVI modules.

Product number	Female connector
CMD1941	HDMI
ZDH-2040	VGA
ZDB-2038	Analog RGBHV
ZDR2042	YPbPr/YUV
ZDB2048	2 x composite video
ZDS2046	4-pin mini-DIN
ZDC-2050	BNC
	CMD1941 ZDH-2040 ZDB-2038 ZDR2042 ZDB2048 ZDS2046

About your Streaming media and 4K playback input module

The Streaming media and 4K playback input module allows you to decode and play:

- Media and images from a USB drive
- Media and images from internal storage
- Video streams from IP sources.

Sources include streaming server, and any device used with an IP encoder, for example, the Magenta™ Encoder-100.

Features

- Play two simultaneous channels of media, including IP streams
- Play video clips from USB drive up to 4K @30 Hz
- Play single IP streams up to 100 Mb/s
- Play dual IP streams up to 40 Mb/s
- Play still images up to 8K
- Play streams with low latency
- Play media from streaming server
- Create and save up to 20 playlists
- Primary channel supports up to 4K @30 Hz
- Secondary channel supports 1080p @60 Hz
- IP streams up to 4K @30 Hz
- Save up to 40 IP streams
- Full resolution and frame rate scaling
- Start playing media when your device starts
- Supports USB 3.0
- 8HD Player mode for synchronized playback of 8x 1080/30 fps files into 2x 4K @30 Hz inputs
- IP and Media playback labels
- FTP synchronization for media files
- Support AES CBC encrypted streams with 128 or 256 bit keys

For CORIOmaster2[™], CM2-AVIP-IN-1USB-1ETH-128 comes with 128 GB internal storage



USB (LED)	Indicates the status of the USB drive. Green <mark>be</mark> means that the USB drive is working correctly. Red <mark>be</mark> means that the USB drive is over current.
USB 3.0 USB 2.0	Connect a USB drive to play media directly. For best results, we recommend using quality USB drives compatible with USB 3.0.
ST1 (LED)	Indicates the status of the module. Green 🔂 means that the module is working correctly. Red means that the module is starting, or that there is a problem.
ST2 (LED)	Indicates the status of the sub-module. Green neans that the sub-module is working correctly. Red neans that the sub-module is starting, or that there is a problem.
LAN	Connect an Ethernet cable to play media over IP.

If any status indicator stays red , restart your CORIOmaster2[™]. If that doesn't work, contact tvONE support. Contact details are at the back of this guide.

About your HDBaseT input module

The 4K HDBaseT[™] modules allows you to receive uncompressed, high-resolution 4K video and audio from stand-alone transmitters located up to 150 m away. The input module also allows you to extend Ethernet to remote transmitters that support HDBaseT Class A and HDBaseT Class B.

See our range of active optical cables and signal extenders at help.tvone.com/r/docs/g/signal-extension

Features

- HDBaseT Class A to 150 m
- HDBaseT Class B to 60 m
- 1x channel 4K60 or 2x channels 4K30 or below
- Audio support



Status indicator 日日 (LED)	Indicates the status of the module by the LED directly below the middle RJ45 connector. Green means that the module is working correctly. Red means that the module is starting, or that there is a problem. Off means the module is powered down.						
Ethernet links	Two LEDs built into the	Two LEDs built into the middle RJ45 connector.					
	Left LED Ethernet Li	nk/Activity.					
(LED)	 Right LED Ethernet speed, off for 10 Mbps or green for 100 Mbps. 						
HDBaseT	Indicates the link status	by the LED directly be	elow the left and right RJ4	15 connectors.			
link (LED)	There is a green LED for the HDBaseT status and red LED for the HDMI status, they can combine to make orange.						
	LED status patterns	No Link	Ethernet Fallback	HDBaseT			
	No HDMI	off	fast green/off	green			
	HDMI with HDCP	red	orange/off	orange			
	HDMI without HDCP	red/off	orange/red/off	orange/green			

If any status indicator stays red , restart your CORIOmaster2[™]. If that doesn't work, contact tvONE support. Contact details are at the back of this guide.

About your HDMI input and output module

The High-Definition Multimedia Interface (HDMI[™]) modules are a proprietary audio/video interface for transmitting uncompressed video data and compressed or uncompressed digital audio data from an HDMI-compliant source device.

See our range of active optical cables and signal extenders at help.tvone.com/r/docs/g/signal-extension

STATUS Indicates the status of this module. Green means that the module is working correctly. Red means that the module is starting, or that there is a problem. Off means the module is powered down.

If any status indicator stays red , restart your CORIOmaster2[™]. If that doesn't work, contact tvONE support. Contact details are at the back of this guide.

What does the status LED under the HDMI connector mean?

HDMI Indicates the status by the LED directly below the HDMI connectors on supported modules.

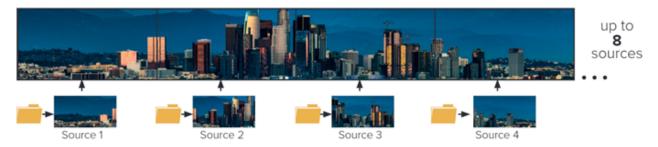
(LED)	LED status patterns	
	off	No signal
	green	Valid signal with HDCP 2.2
	green/short off	Valid signal with HDCP 1.4
	orange	Valid signal without HDCP
	red	HDCP problem
	red/off	Fault or unrecognized resolution

8HD Player – Synchronized playback mode

The streaming media and 4K playback module has two different operating modes.

The 8HD player is designed to play up to 8x 1080p30 media files from the module's internal drive. Playback will occur in perfect synchronization into each of the four quadrants of a UHQ (4K) window and in this mode two of these windows are available to place on a canvas.

For example four files are shown with one 4K30 window. A media file has been cut in to 4x 1080p30 files.



In synchronized mode the windows placed on the canvas from the module are as shown. The window is separated in to four quadrants by dotted lines and the quadrants are numbered from 1 to 4 on the first window and from 5 to 8 on the second window.



How to change the operating mode?

- 1. To change the operating mode in CORIOgrapher, select 🔅 Settings > Module Configuration
- 2. Find the Streaming media and 4K playback module that you want to set up, and select ••• > Configure



3. Change the operating mode from Standard to Synchronized.

Module Settings [Sl	ot7]	
General		
Operating mode	Standard ×	
Core Temperature	Standard Synchronized	
Networking		
Configuration	Off ·	
	is turned off. To turn on networking, r StaticV4 or DHCP from the on box.	
	Save and close Cancel	

- 4. Select Save and close to change operating mode.
- 5. The Streaming media and 4K playback module will reboot into the synchronized mode.

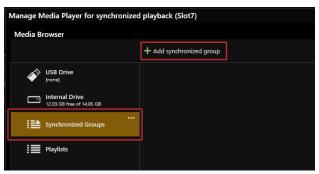
How do I setup and play my media?

To playback the files we must set up at least one synchronized group.

1. Double-click the window you wish to play media, and from Properties, select (Media Player) Manage.]

•	Common		
	Alias	Window1	
	Input Slot	s1i1	•
	Status	ОК	
	HDCP Status	None	
	Media Player	Manage	
	Module Status	READY	
	Health Status		

2. Select Synchronized Groups then + Add synchronized group



3. Give your group a name (must be unique and max of 64 characters)

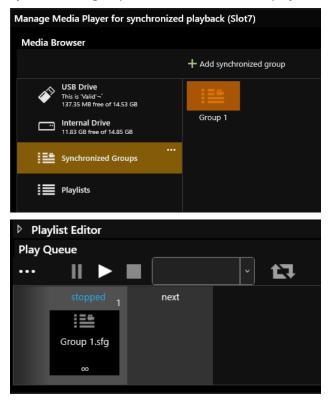
Add new	synchr	onized	group					
Name:	Group	1						
		_			_		_	
		Add s	ynchroni	ized grou	р	Cance	I	
 Synchronized Group 	Editor							
Group 1.sfg								
(i) Info								
Group 1.sfg 0 items	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Playlist Editor								

4. Drag and drop files from your Internal Drive to each empty slot (up to 8)

The files can be in any order in the group, but they will play back into the quadrant for the number selected, for example a clip placed in position 8 will playback in the quadrant numbered 8.



5. Synchronized groups can now be added to a playlist

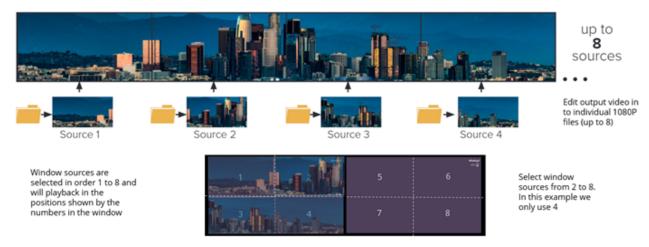


Notes about playing media

- Media files should be the same resolution and frame rate
- Ideally, they should be from the same source, for example a video belt, but they can be different files.
- The longest file will determine playback time for the group and if there are shorter files the window will
 hold the last frame until the last file has finished playing before moving to the next synchronized group in
 the playlist or repeat if you have that option selected.
- The files should have the same presentation timestamps (PTS) to be frame synchronized for playback.
- Audio for the window is taken from the clip in position 1 only
- Only synchronized groups can be added to a playlist (not individual media files or stills)
- Synchronized groups can only be added to a play queue when the module is in synchronized mode.

How to position displays and windows?

For example displays 1 through 4 must be physically placed under the correct window quadrant on the canvas for the content to playback into the correct display.



The displays must be positioned physically under the window content as the window cannot be split in to separate parts.

Four 1080p30 files can playback in to one 4K30 window.

FTP Server media synchronization

Media files can now be synchronized to your streaming media and 4K playback module over a network from an FTP server.

First set up your FTP server. The FTP server needs to be on the same network as your Streaming media and 4K playback module. Set up a user with a username and password.

Set up a shared folder for the user on your FTP server where you can put your contents. Your FTP settings must point the server to the shared folder.

Set up its credentials in CORIOgrapher[™] by navigating to settings then network clients. Enter your FTP server IP address, port, username, and password.

Network Clients				
FTP Client				
Host IP Address	192.168.0.2			
Port	21			
Username	testftp			
Password	•••••			
Use TLS				

Connect your Streaming media and 4K playback module to the network and navigate to module configuration. Go to the module and click the ••• in the top right-hand corner then select Configure from the drop-down menu.

Module Configuration				
			CORIOv	iew MWP-
	4 SPDIF 1-OUT	1	MEDIA_4K IN	Configure
	Power	3	NO CARD	■ Manage Media Players > CPU

Go to Networking and select DHCP to obtain an IP address automatically or set up a static IP address. Save and close to confirm the settings.

Networking	J	
Configuration	DHCP Y	
IP Address	172.	
Subnet Mask	255.	
Default Gateway	172.	
DNS (Preferred)	172.	
DNS (Alternative)	10.	
MAC Address		
Link Speed	1 Gbps	
	Save and close Cancel	

To synchronize the shared FTP folder with the streaming media and playback module send the following API command using an external device or by using the console in CORIOgrapher.

(Slot<N>.Storage.Local.StartFTPSync())

<N> is the slot number where your media streaming and playback module is installed.

As an example where your streaming media module is in slot number 2 the following API command should be sent **Slot2.Storage.Local.StartFTPSync()**

If this was done for the first time a folder will be created in the root of the Internal Drive in the module called **ftpc**. Inside this folder two further ones will be created, **content** and **staging**. The FTP server will now synchronize with a folder on the module's internal drive. Files are first copied to the staging folder and once downloaded will be moved to the content folder.

All new files will be copied

Files with the same file name as already stored files will be copied if the file is different and will replace files on the Internal Drive in playlists the next point of playback. Files cannot be deleted on the module's internal drive by synchronization. This must be done manually.

It is important to note that the credentials for the FTP server are not set up per module but per CORIOmaster chassis. If you have more than one module in your chassis, they will need to synchronize with the same server and therefore will all receive the same files. Each module though will need to be synchronized separately as the API command is by slot number. Each module can select which files to play using playlists.

AES file decryption

AES encrypted streams can be decrypted by the module. The streams must have been encoded using the AES CBC method and have 128 bit or 256 bit encryption keys. The streams must also be MPEG-TS streams.

Each stream needs an encryption mode key and an IV code. The encryption mode key is per stream and the IV is a 128 bit code that is for the whole system.

Select the type of stream	encryption when	adding the new IP stream
---------------------------	-----------------	--------------------------

Add new IP Stream					
Name:	MediaStream1				
URL:	rtsp://server1/st	tream1			
Encryption Mode:	None	~			
1	None				
4	AES 128-Bit PC				
4	AES 128-Bit PC+S	ТВ			
4	AES 256-Bit PC		Cancel		

Add the HEX encryption key for the stream into the stream properties box. The key will be provided by the stream provider.

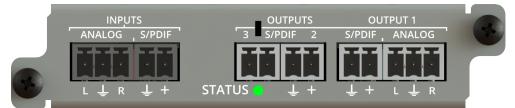
General	
Device Name	TM - CORIOmaster2
Preset Easing	
Default MPEG-TS IV	

Enter the Default MPEG-TS IV into the General area in settings. The IV must be set as this is used for every item in the queue and the user cannot edit this value per stream.

 $\underset{\mathsf{Help}}{\texttt{P}}$ If you need help to set up AES then contact your distributor, or tvONE support.

About your S/PDIF and analog audio module

You can use 3.5 mm terminal block connectors to connect to a range of audio inputs and outputs.



INPUTS, ANALOG	Connect an analog audio device.
INPUTS, S/PDIF	Connect a digital audio device.
OUTPUT 1 S/PDIF	Connect an analog or digital device to play audio from the video installation on canvas 1.
ANALOG	
OUTPUT 2	S/PDIF output. Connect a digital device to play audio from the video installation on canvas 2.
OUTPUT 3	S/PDIF output. Connect a digital device to play audio from the video installation on canvas 3.
STATUS (LED)	Indicates the status of the module. Green means that the module is working correctly. Red means that there is a problem.

If any status indicator stays red, restart your CORIOmaster2. If that doesn't work, contact tvONE support. Contact details are at the back of this guide.

Supported formats

The S/PDIF and analog audio module supports all audio formats outputted as PCM with a frequency of 48 kHz.

Inputs

Your S/PDIF and analog audio module has two inputs, one analog and one digital input.

You can use inputs from the S/PDIF and analog audio module as breakaway audio only.

What's breakaway audio?

Breakaway audio is independent of the windows on your video wall. It doesn't change when the sources playing in your windows change. The audio is sent to all enabled outputs.

Outputs

Your S/PDIF and analog audio module has three outputs. Each output is locked to a canvas in the Editor. Output 1 is locked to canvas 1, output 2 is locked to canvas 2, and so on.

Output 1 has one analog and one S/PDIF digital port. You can send the same output to both ports, but you cannot send a different output to each port. Because output 1 is locked to canvas 1, only canvas 1 is capable of sending both analog and digital audio.

To choose a canvas, select a canvas number from Canvas.



Outputs 2-3 each have one digital S/PDIF output.

Hardware recommendations

At tvONE, we design our products to the highest quality standards. To get the best results from our products, we recommend that you use the best quality connectors, cables, and adapters. Consider the points below when you choose accessories and position equipment.

 For best results at resolutions of 1080p60 or below with HDMI or DVI, use cables under 15 m long, or shorter if you use connection adapters. If you need to place your products more than 15 m apart, use active optical cables or a signal extender.

For best results at resolutions of 4K60 or higher with HDMI, use cables under 2-3 m, or shorter if you use connection adapters. If you need to place your products more than 3 m apart, use active optical cables or a signal extender.

See our range of active optical cables and signal extenders at help.tvone.com/r/docs/g/signal-extension.

- For best results with HDMI, use High Speed, Premium High Speed, or Ultra High Speed HDMI cables.
- For best results with DisplayPort, use certified cables under 2 m long.
- In industrial environments, use shielded Ethernet cables.

Shielded Ethernet cables are often marked F/UTP, FTP, or STP. Use shielded Cat 6 or above cables with HDBaseT input and output modules and Streaming media and 4K playback input modules.

- Use good quality USB 3.0 drives.
- For more hardware recommendations for your product, see the specification sheet.

Read more about HDMI at hdmi.org.

Read more about DisplayPort at displayport.org.

Get help with your Magenta Encoder-100

The Magenta Encoder-100 works with your CORIOmaster2™ product.

Read about configuring your Magenta Encoder-100 at help.tvone.com/r/docs/cm2/encoder-100/1.

Set it up

This section contains everything you need to know about installing and setting up your video installation with CORIOmaster2[™] and CORIOgrapher[™].

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Planning and installing video installations

The first step towards creating a video installation with your CORIOmaster2[™] is planning and setting up your hardware.

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Planning a video installation

It's really helpful to write a plan before you start installing. A plan saves you time and effort later, and helps you make sure you have all the equipment you need.

Download the printable plan from help.tvone.com/r/docs/cm2/home/1

If you can't print and fill out the plan, think about the following questions:

Overall effect

- What do you want your video wall to look like?
- How large is your video wall?
- What do you want to accomplish?

Displays

Video tearing

Using a mixture of frame rates and/or resolutions can cause video tearing. For best results, make sure all your displays use the same frame rate.

- How many displays do you need?
- What sizes are the displays?
- What are the bezel sizes of the displays?
- What is the native resolution of each display?
- Do you need displays that support HDCP (High-bandwidth Digital Content Protection)?
- How many projectors do you need?
 - Do you need to blend the edges of displays?
 - How much overlap do you need?

Sources or inputs

- What types of source do you need?
- What is the native resolution of each source?
- What is the frame rate of each source?
- Will the sources be available at all times that the video wall is operating?
- Is there any switching or processing before the source reaches your CORIOmaster2[™]?

Windows

- How many windows do you need to create the effect you want? Include all windows, even those that are not active all the time.
- What level of quality do you need for each window?

In some cases, you can't have the highest quality for all your windows. Which windows can be lower quality?

What is a window?

A window is a container for a source input. You can have multiple windows playing the same source. You can resize, move, and rotate windows in the video wall editor.

Presets

- Do you want to use presets in your video wall?
- What type of control system will you use to operate the video wall and change between presets?

What is a preset?

A preset stores information about windows, including positions, transitions, and effects such as borders or rotation. You can save presets and recall them later from the dashboard.

Installing your hardware

Once you have planned and collected your hardware, you can set it up. First install your displays and place your sources. Then connect your displays to your output modules and your sources to your input modules.

Who can do this?

Anyone can do this task, but we recommend that you consult a qualified AV installer.

Placing your CORIOmaster2[™] and displays

When you decide where to place your hardware, consider these points:

- Availability of electrical outlets
- Distance from CORIOmaster2 to sources and displays

For best results at resolutions of 1080p60 or below with HDMI or DVI, use cables under 15 m long, or shorter if you use connection adapters. If you need to place your products more than 15 m apart, use active optical cables or a signal extender.

For best results at resolutions of 4K60 or higher with HDMI, use cables under 2-3 m, or shorter if you use connection adapters. If you need to place your products more than 3 m apart, use active optical cables or a signal extender.

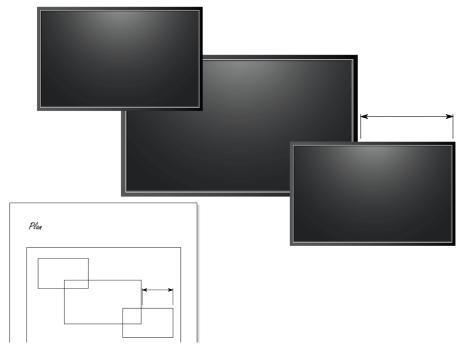
Read about our adapters on page 7.

See our range of active optical cables and signal extenders at help.tvone.com/r/docs/g/signal-extension.

- Make sure your devices are within the operating specification.
- Installation environment

In industrial environments, use shielded Ethernet cables.

Position your displays and sources



- Use your plan to help you position your displays, which can be screens and/or projectors. Make sure you note all the measurements, so you can make an accurate video wall in CORIOgrapher™.
- 2. Position your sources. Follow the advice above when you choose where to put your sources.
- 3. Connect your displays or projectors to the output modules of your CORIOmaster2.





 \bigcirc

It is recommended to use a cable mount to reduce the stress on the connector caused by heavy cables. See the installation instructions that came with your module or device.

Keep a note of which display is connected to which port. You can use this information later when you name inputs and outputs in CORIOgrapher. You can also label the inputs and outputs directly.

4. Connect your sources to the input modules of your CORIOmaster2.



• Keep a note of which source is connected to which port. You can use this information later when you name inputs and outputs in CORIOgrapher.

5. Connect your CORIOmaster2 to your network. If you want to control your CORIOmaster2 with a serial controller, connect a serial controller.



6. Connect your CORIOmaster2 to an electrical outlet and power on.





You can now create your video wall in CORIOgrapher.

Setting up a video installation in CORIOgrapher™

When you've finished installing your hardware and connected everything to your CORIOmaster2[™], you can create your video installation in CORIOgrapher.

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Creating and testing your first video installation

Learn how to create and test a basic video installation.

- Creating a basic video installation
- Testing your video installation

CORIOgrapher[™] system requirements

CORIOgrapher:

- Works with PCs running Windows® 10 and 11
- Does not work with touch-screen-only devices, including tablets or phones
- Works with Microsoft Surface Pros and similar touch screen devices
 Full support for touch screen devices is under development
- Installs Windows .NET 4.6, if you don't have it
- Needs 600 MB of disk space during installation
- Is approximately 60 MB in size once installed

To use the preview feature, your PC must have Windows Media Player installed, and it must have been launched at least once. Preview performance depends on the specifications of your PC and number of windows in your installation.

About CORIOgrapher™

CORIOgrapher is the software that controls your CORIOmaster2[™]. You can create installations over three canvases, with multiple screens and windows, and add transitions and effects for a state-of-the-art dynamic video installation.

CORIOgrapher main areas

G Home	命 Home	Home is where you connect to a device, load a configuration from a file, or create an offline configuration.
Editor		CORIOmaster and CORIOmaster2 only.
	Editor	Editor is where you create your installations on each canvas.
Dashboard		 If you have a CORIOmaster or CORIOmaster mini, you can create up to four canvases.
		 If you have a CORIOmaster micro, you can create up to two canvases.
		 If you have a CORIOmaster2, you can create up to three canvases.
		Dashboard is where you control the actions of your canvases.
	Dashboard	
	()	CORIOview and CORIOmaster micro only.
	Standby	Standby puts your device into standby mode.
Ф	? Help	Help opens tvONE help for your product.
Standby	·	
? Help	ŝ	Settings is where you configure your system, network, modules, and more.
کی Settings	Settings	

Getting started with CORIOgrapher™

When you first open CORIOgrapher, you see \bigcirc Home.

Home				
Start	Recent Conf	igurations	Discovered Devi	ces
Create an offline configuration	CORIOview-sam CORIOview	ple-config 29/07/2019 15:54:24	My CORIOmaster 2 CORIOmaster 2 172.	40°
Load configuration from a file			172. CORIOview 172.	40 [,] 22
Connect to your device			' CORIOmaster [In_Us CORIOmaster 172.	e] 4C 22
Read configuration from the device			CORIOmaster micro CORIOmaster micro 172.	40 22
			COM1	
				C Refresh

- If you've already set up your hardware, you can connect to your CORIOmaster2[™] and get information about its configuration of modules.
- If you haven't set up your hardware yet, you can create a configuration offline. Or, you can load a
 configuration from a file, if you have one. You can save your configuration, and send the configuration to
 your CORIOmaster2 later. You can also use saved configurations to configure other CORIOmaster2 units.

Read about setting up hardware on page 22.

To connect to your CORIOmaster2 and get its configuration

The easiest way to get started using CORIOgrapher is to get the configuration of inputs and outputs directly from your CORIOmaster2.

1. From ⚠ Home, select your CORIOmaster2 from Discovered Devices. If your CORIOmaster2 isn't in the list, select Refresh.

If you can't see your CORIOmaster2, read troubleshooting advice on page 120.

2. Enter your administrator login details.

When you first log in as an administrator,	enter the username admi	in and password	adminpw.Le	ave
the Secure option clear.			_	

Authentication		
Host (IP or COM)	172.	Secure Secure
User name	admin	
Password	•••••	
	Login	Cancel

If Host (IP or COM) doesn't contain an IP address, read troubleshooting advice on page 121.

3. When you are logged in to your CORIOmaster2, select Read to get its configuration.

To log in with secure mode

You can communicate securely with your CORIOmaster2. To use secure mode, enable secure mode.

Read about enabling secure mode on page 31.

When secure mode is active, in \bigcirc Home you can see \square next to the name of the CORIOmaster2.

To create a configuration offline

You don't need to be connected to a CORIOmaster2 to create video installations, but you do need to recreate the configuration of your CORIOmaster2 so that you're using the correct inputs, outputs, bonding modules, and devices.

You can also create offline configurations to help you decide what hardware you need.

- 1. From h Home, select Create an offline configuration.
- 2. In Configuration Editor, choose a device, and give your configuration a name.
- 3. If you have a product code, enter it in Product code to automatically populate your modules.

Product code: (CM2-547-134273D00D0000C00200	Ð	Ø,
OR			

4. If you do not have a product code, for each slot, choose a module from the list.

Device Configuration for CORIOmaster2 CM2-547 Configuration Name: New Configuration				
			luct code: CM2-547-134273D00D0000C00200	
1 Input HDMI_4K 2-IN v 4 Input MEDIA_4K IN v	2 Input, Input_HB HDMI_2K 4-IN 5 Input, Input_HB HDMI_4K 2-IN	3 HDMI_2K 8-OUT 6 BONDING	Output Vou can use up to 2 canvases Output Vou can use up to 2 canvases with this selection of output modules.	
7 Input No module v	No module DVI_U 2-IN HDBASET 2-IN HDMI_ZX 4-IN HDMI_ZX 4-IN	9 BONDING 12	Output Output	
10 Input No module v 13 Input, Output No module v	HDMI_4K 2-IN MEDIA_4K IN SDI_3G 4-IN 14 CPU	No module 15 No module 16	Output e	
PSU Redundant	Chassis options: Fan Filter Assembly PSU	No module 17 HDMI_2K 8-OUT	Output V	
			Create Configuration Discard Configuration	

- The number of slots available depends on your device.
- You don't have to use all the slots.
- If you are creating a configuration for an existing CORIOmaster2, match your configuration to the modules of your CORIOmaster2.
- If you are creating a configuration to help you decide what modules you need, there are some guidelines on where to put your modules.

Read about the configuration of a CORIOmaster2 on page 2.

5. OPTIONAL: You can copy the product code to the clipboard, so you can paste the product code in to your email or document.

OPTIONAL: You can export the product configuration summary to a PDF file to include in your documentation.

Peripherals may have to be manually set.

You should export your configuration to a PDF file before selecting Create Configuration, as you will not be able to do this later.

To send a configuration to your CORIOmaster2

You can send a configuration to your CORIOmaster2 from \triangle Home. You can either create a configuration offline, or load a saved configuration.

- 1. Create or load a configuration.
- 2. In f Home, select your device from Discovered Devices and enter your administrator login details. The default username is admin and the default password is adminpw.
- 3. Select Send.

Naming input and output ports and channels

You can name the input and output ports and channels for each slot in CORIOgrapher™.

Why should I name input and output ports and channels?

CORIOgrapher uses aliases to give each input or output port or channel in each slot a unique name. For example, the first port in slot 1 is named s1i1 for slot 1 input 1. These unique identifiers tell you the position, but not what is connected to that input or output.

Name your ports and channels with something that indicates what is connected to the port, or playing on the channel. Doing this can help you identify what is what in your configuration, and makes it easier for you to see quickly which source is playing in which window. For example, you might rename s1i1 to Camera 1.

Naming the channels of a Streaming media and 4K playback input module

The Streaming media and 4K playback input module has two channels. Each channel refers to a play queue, not to a specific streaming source. If you intend to build play queues with multiple sources, for example, one or two streaming sources and media items from a USB drive, then consider unique names such as PlayQueue1 and PlayQueue2. If you intend to always have just one streaming source in a play queue, then you could use names like WOWZAstream, or LectureTheatreStream.

Naming rules

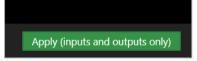
Names must be unique and start with a letter. They can contain letters, numbers, and underscores, and can be up to 21 characters long.

To name input and output ports

- 1. In CORIOgrapher, select 🔅 Settings > Slot Status.
- 2. For each port, enter a useful name.

General			
Networking	Input S	Input Slots	
Time	Slot	Name	
Network Clients	Slot1.In1	PlayQueue1	
HTTPS Certificates	Slot1 In2	PlayQueue2	
Module Configuration			
Playlists	Slot2.In1	Camera1	
IP Streams	Slot2.In2		
EDID Manager			
CORIOgrapher			
Users	Output Slots		
Backup and Restore	Slot	Name	
nformation	Slot3.Out1	Screen1	
System	6-12-0-12	Screen2	
	Slot3.Out2	_screen2	
Constraints	Slot4.Out1	SPDIFOut	

3. To save your new names, select Apply (inputs and outputs only).



If you are creating an offline configuration, select 🟵 Editor > 🗔 Save to file.

Enabling secure mode

You can use secure mode to encrypt information you send and receive from your CORIOmaster2™.

About secure mode

Secure mode uses HTTPS to encrypt all communication between CORIOgrapher[™], or another secure controller, and your CORIOmaster2. HTTPS encryption uses TCP port 443.

When secure mode is active, in \bigcirc Home you can see \square next to the name of the CORIOmaster2.

Secure mode disables unsecured connections over Ethernet. Unencrypted third-party controllers do not work over Ethernet when you use secure mode. You can still use unsecured controllers that are connected directly to your CORIOmaster2, using the serial port of the CPU module.

Read troubleshooting advice on page 123.

Enabling secure mode

1. Clear the Secure option and log in to CORIOgrapher.

Authentication					
Host (IP or COM)	172.	Secure			
User name	admin				
Password	•••••				
	Login	Cancel			

- 2. Select 🖏 Settings > Networking.
- 3. Select Secure connection.

Settings	
General	Networking
Networking	Secure connection 🗹
Time	Secure connection @
Network Clients	Configuration DHCP ~
HTTPS Certificates	IP Address 172.
Module Configuration	Subnet Mask 255
Playlists	Default Gateway 172.

- 4. Select Save > Yes. CORIOmaster2 restarts.
- 5. Select Secure and log in.

Authentication				
Host (IP or COM)	172.16.21.60	Secure		
User name	admin			
Password	******)		
	Login	Cancel		

About HDCP

What is HDCP?

High-bandwidth Digital Content Protection (HDCP) is a form of digital copy protection developed to prevent copying of digital audio and video content as it is sent between devices, for example protecting the content as it travels from a Blu-ray player to an amplifier to your TV.

What support does my CORIOmaster2[™] have for HDCP?

Your CORIOmaster2 can support video inputs and displays with no HDCP or with HDCP versions 1.4, or 2.2 when using supported modules.

Read about modules on page 6.

How does my CORIOmaster2 handle mixing of HDCP versions?

CORIOmaster2 will pixelate the portion of a window on displays that are using a lower HDCP encryption than required by the input sources, for example a Blu-ray player.

Use this table to identify HDCP compatibility between your sources and displays:

		Displays	
HDCP versions	None	1.4	2.2
None	✓	✓	✓
1.4	Pixelated	✓	~
2.2	Pixelated	Pixelated	~
	None 1.4	None1.4Pixelated	HDCP versionsNone1.4NoneImage: Constraint of the second seco

Show me an example of window pixelation

The left display has HDCP encryption high enough for the input source, but the right display doesn't, so the part of the window shown in the right display is pixelated.



How do I change the HDCP version of an input?

Your CORIOmaster2's inputs negotiate with each connected source which version of HDCP to use, and the source will then make decisions on how to present the content, which may be no video.

You can choose to disable HDCP support, and on supported modules which version the input will try to negotiate. This may help to force the source to send content in a particular version, for example you have HDCP 2.2 sources but only HDCP 1.4 displays.

Bulk updating the input HDCP properties

- 1. In CORIOgrapher, select 🖏 Settings > Slot Status.
- 2. When connected to your device the HDCP Status will automatically update to show the version negotiated with the source.

Input Slots				
Slot	Name	HDCP Status	HDCP	
Slot5.In1	s5i1	None		
Slot5.In2	s5i2	None	🗹 🔽 🖌 🖌	
Slot5.In3	s5i3	None		
Slot5.In4	s5i4	None	🗹 🖬 🔍	

3. For each port, select if HDCP is enabled and if available which HDCP version to negotiate with the source.

Input Slots				
Slot	Name	HDCP Status	HDCP	
Slot5.In1	s5i1	None		
Slot5.In2	s5i2	None	🖌 🔽 🖍	
Slot5.In3	s5i3	None		
Slot5.In4	s5i4	None	🖌 🛛 🖌	

4. To save your changes, select Apply (inputs and outputs only).



5. If you are creating an offline configuration, select 3 Editor > \blacksquare Save to file.

Individually from each window

- 1. In CORIOgrapher, select ⁽¹⁾ Editor, double-click the window to open Properties,
- 2. When connected to your device the HDCP Status will automatically update to show the version negotiated with the source.

Displays & Windov	vs Properties			
HDMI_4K 4-IN Slot5.In1				
✓ Common				
Alias	Window3			
	Manage			
HDCP Status	None			
Input Sottings (charge)				

3. If you do not require HDCP you can disable it by clearing the HDCP Enabled option, or if available, select the HDCP Version which will force the input to try to negotiate that version with the source.

Di	isplays & Windows	Properties		
н	DMI_4K 4-IN_Slot5.I	n1		
۵	Common			
Ŧ	 Input Settings (shared) 			
			~) _	
		DMI		
	HDCP Enabled			
			· · ·	

- 4. When you are happy, select [¬] Take and then [¬] Set device startup to save the take on your CORIOmaster2, so your changes will be restored on start up.
- 5. If you are creating an offline configuration, select 🗔 Save to file.

How do I change the HDCP support of an output?

Your CORIOmaster2's outputs negotiate with each connected display which version of HDCP to use.

P You are not allowed to output HDCP encrypted content on unencrypted or lower HDCP version displays.

Bulk updating the output HDCP properties

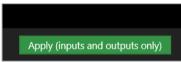
- 1. In CORIOgrapher, select 🔅 Settings > Slot Status.
- 2. When connected to your device HDCP Status will automatically update to show if HDCP is active.

Output Slots					
Slot	Ne	HDCP Status	HDCP		
Slot3.Out1	s3o1	Off	HoldOn ×		
Slot3.Out2	s3o2	Off	KeepOff ~		

3. For each port, select the HDCP mode to tell the output how to handle the display.

Output Slots					
Slot	Ne	HDCP Status	HDCP		
Slot3.Out1	s3o1	Off	HoldOn ~		
Slot3.Out2	s3o2	Off	KeepOff v		

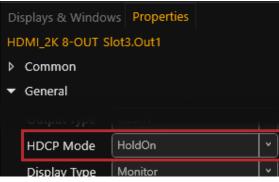
- HoldOn: Keeps HDCP active
- KeepOff : Turns off HDCP
- 4. To save your changes, select Apply (inputs and outputs only).



- 5. If you are creating an offline configuration, select 3 Editor > \blacksquare Save to file.
- Individually from each display
 - 1. In CORIOgrapher, select 🟵 Editor, double-click the display to open Properties,
 - 2. When connected to your device HDCP Status will automatically update to show if HDCP is active.

Displays & Windo	ws Properties
HDMI_2K 8-OUT S	ilot3.Out1
✓ Common	
Aline	
HDMI	Not_Found
HDCP Status	Off
Cut To Black	Off v

3. Select the HDCP Mode to tell the output how to handle the display.



- HoldOn: Keeps HDCP active
- KeepOff : Turns off HDCP
- 4. When you are happy, select Take and then Set device startup to save the take on your CORIOmaster2, so your changes will be restored on start up.
- 5. If you are creating an offline configuration, select 🖫 Save to file.

Keying windows on your CORIOmaster2™

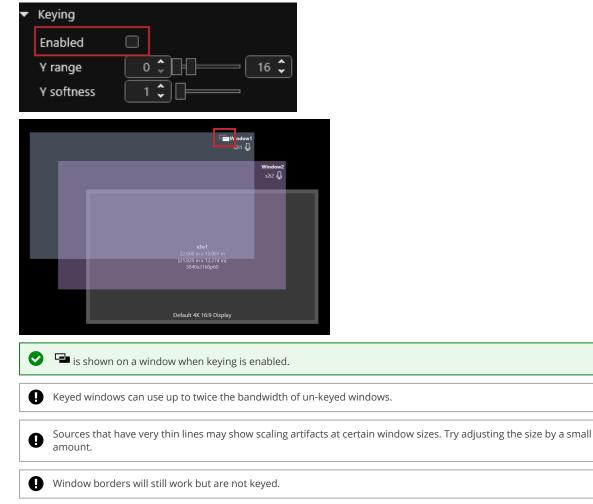
Your device supports luminance keying on all modules. Keying makes parts of the window become transparent in real time.

What is Luminance keying?

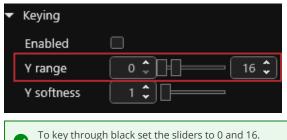
Luminance keying determines background objects from foreground objects by the difference in the luminance (brightness) levels.

How to enable keying on a window?

- 1. From Editor, double-click the window you want to enable keying on.
- 2. From Properties, open Keying > check Enabled.



3. Adjust the Y range upper and lower sliders to choose the luminance range to be keyed.



To key through white set the sliders to 240 and 255.

4. Adjust the Y softness slider to choose how much anti-aliasing is used to soften the edges.

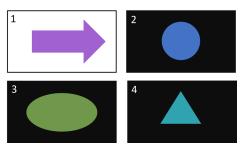
•	Keying	
	Enabled	
	Y range	16 🗘
	Y softness	

Why are my overlapping windows not keying like I expected?

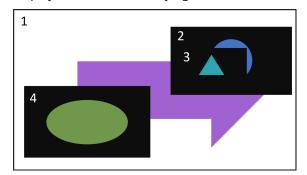
Window keying is only between two windows or the black background of the canvas. If your keyed windows overlap then you many get undesirable results.

Here is an example of what you might see. Window 1 is the background, window 2 and 3 are overlapping keyed windows, and windows 4 does not overlap other keyed windows.

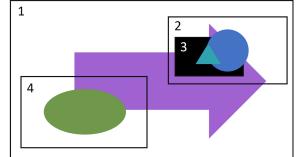
Sources of the windows

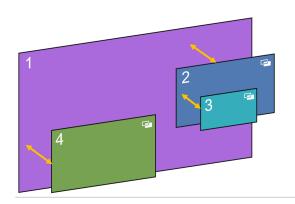


Display with all window keying turned off



- Window 2 and Window 4 keys through black to show window 1.
- Overlapped keyed windows 2 and 3, show black of window 2, instead of window 1.





Show me examples of keying

White logo keyed using black to remove the background



Cut out keyed through white



Creating a video installation

To create a video installation in CORIOgrapher[™], you need sources and displays. Make sure you've either loaded your configuration from your CORIOmaster2[™], or created an offline configuration.

Read about reading the configuration from your CORIOmaster2[™] on page 27.

Read about creating an offline configuration on page 28.

To create a video installation on a canvas

1. In 😳 Editor, choose a canvas.



2. If the canvas frame rate is unset, the Device and Canvases Settings dialog shows, select a frame rate for this canvas.

Canvas1		
Frame Rate	Not set 🗸 🖌 🖌	
Canvas Link	Not set p23.976	
	p24	
Canvas2	p25	
Farma Data	p29.97	

Canvas frame rates help identify displays on the same canvas with different frame rates that could cause issues with stuttering or tearing, for example, if you select p60 the editor will highlight red any display that is not progressive 60 Hz.

3. OPTIONAL: Select the device locking mode and set the available options.

Do I want Synclock or Framelock?

Synclock synchronizes outputs on the same canvas using an internal clock, so they display video frames at the same time. If required you can link multiple canvases to synchronize their outputs together. Synclock is the default mode.

Framelock uses an external reference input to synchronize the outputs on your canvas. There is only one external reference clock for your device. You can select which canvases are locked. If the canvas is not locked to a external reference input then Synclock is used.

It can take up to 1 minute to lock onto the selected reference input. The reference input frame rate must exactly match the output frame rate.

You can change the settings later from ${\mathfrak S}$ Editor > ${\mathfrak S}$ Canvas panel > select ${\mathfrak S}$.

- 4. Select 岱 Show assets and open Displays.
- 5. OPTIONAL, but RECOMMENDED: Assign equipment to the display by selecting the \mathscr{O} , then select the equipment you want to assign to the display, and then select Assign. When you add the display to a canvas the values from the equipment will automatically be used, so you don't have to set them manually.

You can change or assign equipment later by selecting the display, then from the Properties panel, open Equipment, select Assign.

- 6. OPTIONAL: If the display resolution is not listed there are two possibilities:
 - 1. The module does not support the resolution you require, for example you want a 4K resolution on a 2K output. You will need to use a different module that supports your required resolution.

2. The resolution is not in the built-in list. If supported by the module, you can add a custom resolution by selecting Add custom or Manage.

Allas		_40ui	
Resolution	3840x2160p60		~
	Add custom	Manage	
HDMI	Not_Found		

Add custom opens a dialog that targets the module requirements. We've created a custom
resolution algorithm that maximizes the likelihood that the resolution will work in your setup.

New Oxtput Custom Resolution Enter your desard involution:	Name: Scan type: Pool Clock: Total pixels: Active pixels: Freet. Perch (pixels): Back Perch (pixels): Back Perch (pixels): Polarity: Freequency:	160x32p60hwb Progressive 148.500000 MHz 7500 160 7276 32 923 83 924 19.800 kHz		310 Some resolutions may not 32 have audio support. 4 Colour space Auto setting 4 Colour space Auto setting 142 will default to RGB. You can 142 change the color space for the output from the
Custom resolution available				
	🕕 Resol	ution will be automatic	ally saved to your device	Add new resolution Cancel

Adding or selecting a resolution will also select the resolution for the display.

If the resolution frame rate does not match the canvas frame rate you will see a warning from the Editor display.

Read about custom resolutions on page 60.

 Manage opens the advanced dialog where you can manually enter timing values or use one of the timing providers.



Read about custom resolutions on page 60.

7. OPTIONAL: If your output module supports port cloning, you can clone an output onto a second display. Both displays show the same output at the same resolution.

From Properties > Clone Output select On.

8. For each display you want to use in your video installation, select + to add a display.

9. Arrange the displays on the canvas until they match your plan.

Бланска не 8115 сто 1066е 19: 5255 сто 3050 19: 5255 сто 3050 Съцияло посог					
Default 46 inch 169 Displa					
		screen1 55.897 (in x 31.781 (in (55.100 (in x 30.994 (in)) 1920x1080p60			
Plan					
	¬ 	Default 46 inch 16:9 Display		screen2 1.880 in x 23.339 in 1.092 in x 22.552 in)	
				1920x1080p60	
	ר ו ר		Default	t 46 inch 169 Display	

10. Add one or more windows. In 分 Assets, open Sources.



Read about updating existing presets when you add more windows on page 75.

Read about setting up your windows for keying on page 36.

11. For each source you want to play in your video installation, select 🗖 to add a dedicated window, or 🖬 to add a free window.

Do I want a dedicated window or a free window?

Dedicated windows are the quickest windows to add. They are locked to a source and the best possible quality for the input. You can add one dedicated window per source. The color of dedicated windows is always cyan.

Free windows take a bit longer to set up but are more flexible. You can change the source playing in the window and select the quality you want to use. The best quality available for a free window depends on the number and quality of windows on your canvas. The color of free windows depends on their quality.

If you only want one source playing in a window with a simple setup process, choose dedicated windows. If you want to have more control, for example, change the source playing in a window with a preset, choose free windows.

What are window qualities?

The different window qualities allow you to fine-tune your device to maximize the available canvas bandwidth. For example when you want a lot of windows, windows are always small, or a window is not the main focus, then your windows don't require the full input resolution or bandwidth. The input might be resized to fit within the selected window quality dimensions.

- HQ (High Quality) are green, and up to 1024x1280 pixels
- EHQ (Extra High Quality) are blue, and up to 2048x1280 pixels
- UHQ (Ultra High Quality) are purple, and up to 4096x2560 pixels

Minimum window quality for high bandwidth resolutions

3840x2160p30 or greater require at least EHQ.
 3840x2160p60 or greater require at least UHQ.

When adding a window to the canvas CORIOgrapher will automatically pick the window quality based on the type of input and available device resources. You can then change the window quality.

12. To customize a window, for example, to add a border, or change the quality of a free window, double-click the window to open Properties, and make your changes.



13. RECOMMENDED: If you are not connected to a device you can select the input's resolution used for the bandwidth calculations.



Be aware that the resolution may change when you connect to your device and the real resolution is measured from the source.

- 14. OPTIONAL: If the source resolution is not listed there are two possibilities:
 - 1. The module does not support the resolution the source is trying to send.
 - 2. The resolution is not in the built-in list. If supported by the module, you can add a custom resolution by selecting Manage.



15. When you are happy with your video wall, select [¬] Take and then [¬] Set device startup to save the take on your CORIOmaster2[™], so your changes will be restored on start up.

Before you start using your video installation, it's a good idea to test it to make sure everything is connected properly.

Read about testing your video installation on page 43.

Read about HDCP on page 32.

Ð

Read about window keying on page 36.

Testing your video installation

Once you've created your basic video installation, make sure that you've correctly connected all your hardware, and named and positioned your displays and windows correctly in CORIOgrapher[™].

 \bigcirc

Testing your video installation is much easier if you've named your input and output ports and channels. Read more on page 29.

1. Add displays and windows.

Read more on page 39.

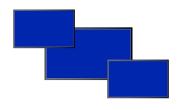
2. Select \uparrow Take to send the configuration on the canvas to your device.



Possible causes:

3. Check that your video installation looks correct.

Make sure that each source is playing, and check that the picture is assembled correctly.



X Not the source you were expecting, blue screen, display keeps dropping signal, or no image.

Source does not support the required number of HDCP

|--|

Possible causes:

- Displays arranged incorrectly in CORIOgrapher
- Output ports named incorrectly

Source connected incorrectlyInput ports named incorrectly

Source resolution not supportedDisplay does not support HDCP

Poor quality or damaged cables

Source correct, connected, and playing.Image appears in the wrong places.

Source not playing

keys

- Displays connected incorrectly
- Source and displays connected and arranged correctly.



4. If you can't resolve these issues, you might need to contact tvONE support. See contact details on page 140. 5. When you are happy with your video wall, select ☐ Take and then ☐ Set device startup to save your settings on your device.

If your video wall is displaying the right sources in the right windows, but doesn't look quite right, you can use the settings in ⁽²⁾ Editor to refine your video wall and make it more accurate. You can now set up and test audio.

Set up and test audio

Your CORIOmaster2[™] supports embedded audio in uncompressed PCM format.

Testing embedded audio inputs

1. From ⁽³⁾ Editor, select **=** Live changes.



2. Select an audio source from the list.

	幻》Audio
	None
Ø None	
Listen to a source	
hdmi1_1	Window1 hdmi2_1 4 0
hdmi1_2 🖟 0	
hdmi2 1 🕮 0	

You hear the audio source from all the displays and output devices associated with this canvas.

3. Select each source in turn.

If you cannot hear a source:

- check the audio settings of the source device.
- On 3 Editor, make sure the source is not muted. A muted source shows 3.
- In 🛱 Settings > Slot Status, make sure Audio Enabled is selected for the source.
- If you cannot hear any sources, check the audio settings of the output devices.
- If your source is a stream with low latency, your CORIOmaster2 mutes the audio. Read more about playing streams on page 91.
- The Streaming media and 4K playback input module only supports the following embedded audio formats:
 - mp3
 - aac

Testing embedded audio outputs

1. From ⁽²⁾ Editor, select **=** Live changes.



2. From Displays & Windows, mute all the displays, except the one you want to test.

ব ্য) Audio	
hdmi1_1 🗳 🛄	— o
Displays 🖵 �い)	100
Displays & Windows Properties	
💿 📄 DISPLAYS	Add
💿 🔒 🐗 🖵 hdmi4k1_1	×
🐵 🗎 4 🖵 hdmi4k1_2	×
👁 🖻 < 🖵 hdmi4k1_4	×

Select (4)) to mute a display, and $(4 \times to unmute a display)$.

3. Select an audio source from the list.

	圦)) Audio
	None
Ø None	
Listen to a source	
hdmi1_1 0	Window1 hdmi2_1 4 0
hdmi1_2 🖟 0	
bdmi2 1 ∏ 0	

You hear the audio source from the display that isn't muted.

4. Mute and unmute each display until you have heard audio from all displays.

If you can't hear audio:

- Check the audio settings on the display itself.
- In ⁽²⁾ Editor, make sure the source is not muted. A muted source shows ⁽²⁾.
- In ³ Settings > Slot Status, make sure Audio Enabled is selected for the source and for the display.
- If your source is a stream with low latency, CORIOmaster2 mutes the audio.
 Read more about playing streams on page 91.
- The Streaming media and 4K playback input module only supports the following embedded audio formats:
 - mp3
 - aac

Read about what to do if you can't hear audio on page 126.

Settings

You can manage device settings, network settings, and user settings. You can also get information about your CORIOmaster2[™], and name your modules.

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Choosing your working units	
Customizing the front panel of your CORIOmaster2™	48
Backing up and restoring your settings	
Resetting your CORIOmaster2™ to factory default settings	50
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Renaming playlists and moving playlists between modules	
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Device settings

Administrators can configure settings for your CORIOmaster2[™], including creating and changing its name, changing the measurement units you use to create video walls, backing up and restoring your configuration, and resetting the CORIOmaster2 to its factory default settings.

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Naming your CORIOmaster2™

You can give your CORIOmaster2 a unique name.

Why should I name my CORIOmaster2?

If you have more than one CORIOmaster2 unit on your network, giving each unit a unique name can make it easier to find and log in to that unit quickly.

To name your CORIOmaster2

- 1. Select 🛱 Settings > General.
- 2. Enter a name for your CORIOmaster2.

General	
Device Name	MyCORIOdevice

3. Select Save.

Choosing your working units

You can choose to work in inches or millimeters when you build video installations in CORIOgrapher™.

To choose a unit

- 1. Select [™] Settings > CORIOgrapher.
- 2. From Default Units, choose your preferred units.

CORIOgrapher		
Maximum Log Messages	10000 🗘	
Default Units	Inches ~	
Usage Reporting to a file	Inches Millimeters]
Clear Recent Files	Clear	

Customizing the front panel of your CORIOmaster2™

You can choose what information appears on the screen on the front panel of your CORIOmaster2.

- 1. Select [™] Settings > Front panel > Settings.
- 2. Select or change the options you want to customize the front panel and display.
- 3. Select Save front panel settings.

Backing up and restoring your settings

You can save your settings to a file on your CORIOmaster2[™], or to a file on your computer. You can restore your settings from either file. You can share a file saved on a computer between several CORIOmaster2 units that have the same configuration of modules.

Backing up your settings on your CORIOmaster2

Settings that are saved on your CORIOmaster2

All settings are saved to a backup file on your CORIOmaster2, including:

- Presets
- Configuration, including custom names
- Canvases
- The play queue of a Streaming media and 4K playback input module
- Network settings
- Manually added streams

What isn't saved to your CORIOmaster2

Any work that you have not saved to the device, with \square Take and \square Set device startup, will not be saved to the CORIOmaster2 backup file.



It is recommended you save your configuration to a file to keep a backup on your computer. Read about backing up to a file on page 49..

To back up your settings on your CORIOmaster2

- 1. Check that you've saved all your work.
- 2. Select [™] Settings > Backup and Restore > Backup.

Restoring your settings from your CORIOmaster2

- 1. Select [™] Settings > Backup and Restore.
- 2. Select Restore.

Backing up your settings to a file on your computer

Settings that are saved on your computer

Most settings are saved to a backup file on your computer, including:

- Presets
- Configuration, including custom names
- Canvases
- Network settings
- Manually added streams
- Custom resolutions

Note: device name and network settings are saved as part of the backup file, but are not included when you restore settings to your device. This allows you to share the backup file between devices without causing conflicts with names and network settings.

What isn't saved to your computer

The play queue and playlists of a Streaming media and 4K playback input module aren't saved to your computer.

To back up your settings to a file on your computer

1. Select ⁽²⁾ Editor > 🗔 Save to file.



2. Choose a location for the file, and save.

Restoring or copying settings from a file on your computer

- 1. Connect to the CORIOmaster2 that you want to update with saved settings.
- 2. Select 🔂 Home.
- 3. Under Recent Configurations, select a saved file.

Home		
Start	Recent Config	gurations
Create an offline configuration	CORIOview-samp CORIOview	ble-config A few seconds ago
Load configuration from a file		
Connect to your device		

If you can't see your file in the list, select Load configuration from a file and browse to your file.

Problems sharing settings between CORIOmaster2 units

You can't share saved settings between devices with different configurations of modules.

You might not be able to copy settings from one CORIOmaster2 to another if they have very different firmware versions, or you might lose some data in the process.

Resetting your CORIOmaster2[™] to factory default settings

Why restore factory default settings?

If your CORIOmaster2 has become unstable, you have repeated errors that you can't fix, or you need to remove all settings and presets, you can reset your CORIOmaster2 to its factory default settings.

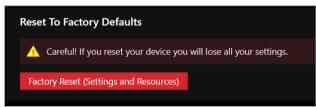
When you reset your CORIOmaster2 to factory default settings, all of your settings and configurations are deleted.

Before you reset your CORIOmaster2, you might want to back up your configuration. When you set up your CORIOmaster2, you can restore your configuration.

Read about backing up and restoring your configuration on page 48.

To reset your CORIOmaster2 to factory default settings

- 1. Select 🖏 Settings > General.
- 2. Select Factory Reset.



User settings

Administrators can create and edit users, change user roles, and enable specific timeout times. Users and power users can change their own passwords.

In this section

Creating and editing users	51
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Changing your own password	53

Creating and editing users

You can create and edit users, change user roles, and enable specific timeout times. You can have up to four additional users.

Who can do this?

Administrators can do this task.

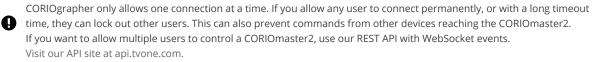
CORIOgrapher has three types of user, administrator, power use	er, and us	ser.	
	Users	Power Users	Administrators
Use the dashboard, including loading presets and using audio controls	~	•	~
Send configurations to your CORIOmaster2		✓	~
Create offline configurations		✓	~
Save and load configurations		~	~
Use the console		✓	~
Create and edit video installations		~	✓
Create and edit presets		✓	~
Set window and display properties, including disabling audio		~	✓
Change settings, including creating and editing other users			✓
Set up a new CORIOmaster2			~

Why set a timeout time?

By default, a connection to a CORIOmaster2[™] must stay active, or it is disconnected after five minutes. An active connection sends at least one command to the CORIOmaster2 every five minutes.

To stay connected while idle for more than five minutes, set a longer timeout time for each user. You can also allow the user to stay connected permanently, with no timeout time, by clearing the Enable timeout option.

Locking out other users



To create a new user, or edit an existing user

User 4		
Username	Janneke_poweruser	✓ Enable timeout
User Role	PowerUser ~	5 🗘 minutes
New Password	•••••	
Confirm Password	•••••	

- 1. Select ⁽) Settings > Users.
- 2. To create a new user, choose an empty slot. To edit an existing user, find that user's details.
- 3. Enter a username.

Usernames must start with a letter, and can contain only letters, numbers, and underscores.

- 4. Select a user role.
- 5. Enter and confirm a password.

Passwords must be between 5 and 32 characters and can contain any combination of alphanumeric characters and symbols. Passwords cannot contain spaces.

6. Select Enable timeout, and enter or select a timeout time from 1–540 minutes.

vone recommends a timeout time from 1–5 minutes.

7. Select Save.

Changing other users' passwords

You can make changes to other users' accounts.

Who can do this?

Administrators can do this task.

Password rules

Passwords must be between 5 and 32 characters and can contain any combination of alphanumeric characters and symbols. Passwords cannot contain spaces.

To change other users' passwords

- 1. Select ⁽) Settings > Users.
- 2. Find the user whose password you wish to change and enter and confirm the new password.

Changing your own password

Who can do this?

Administrators, power users, and users can do this task.

Password rules

Passwords must be between 5 and 32 characters and can contain any combination of alphanumeric characters and symbols. Passwords cannot contain spaces.

To change your password

- 1. Select ⁽) Settings > Users.
- 2. Find your user details and enter and confirm your new password.

Network settings

Administrators can configure network settings for CORIOmaster2[™] units and Streaming media and 4K playback input modules.

In this section

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Configuring network settings for streaming media	

Configuring network settings for your CORIOmaster2™

You can choose a DHCP or static IP address, and configure your static IP settings.

Before you start

If you want to use a static IP address, you need some information about the range of available IP addresses on your network. Your network administrator should be able to help you.



Static IP address

If you choose a static IP address, make sure you enter a unique value for your IP address. Using the same IP address for multiple devices can cause your devices to disconnect. Contact your network administrator for help.

To configure network settings for your CORIOmaster2

- 1. In CORIOgrapher, select ô Settings > Networking.
- 2. Choose an IP configuration.

Networking	
Secure connection	
Configuration	DHCP
IP Address	Static DHCP
Subnet Mask	255.255.
Default Gateway	172. 16.
MAC Address	00:16:9

- If you choose DHCP, an IP address is assigned to you.
- If you choose Static, configure your IP address.
- 3. OPTIONAL: Configure your static IP address.

Networking	
Secure connection	
Configuration	Static 💙
IP Address	
Subnet Mask	
Default Gateway	
MAC Address	00:16:9e:3b:00:10

- Enter a value for your IP address and subnet mask.
- If your CORIOmaster2 and PC are on different networks, enter a value for your gateway.

If you need help with network settings, contact your network administrator.

Configuring network settings for streaming media

If you want to stream media over your network, or from the internet, configure the network settings for your Streaming media and 4K playback input module.

If you only want to use your Streaming media and 4K playback input module to play media from a USB drive, you don't need to configure network settings.

Read about configuring your Magenta Encoder-100 at help.tvone.com/r/docs/cm2/encoder-100/1.

About static IP addresses

If you want to use a static IP address, you need some information about the range of available IP addresses on your network. Your network administrator should be able to help you.



If you choose a static IP address, make sure you enter a unique value for your IP address. Using the same IP address for multiple devices can cause your devices to disconnect. Contact your network administrator for help.

To configure network settings for streaming media

- 1. In CORIOgrapher, select [™] Settings > Module Configuration.
- 2. Find the Streaming media and 4K playback module that you want to set up, and select ••• > Configure.

Module Configuration				
			CORIOview	MWP-
	4 SPDIF 1-OUT	1	 MEDIA_4K IN	Configure
	Power	3	NO CARD	E Manage Media Players > - CPU

3. Choose an IP configuration.

Networking		
Configuration	Off	~
	Off	
	Static	
Networking	DHCP	
select eithe	r StaticV4 or DHCP from the	
Configurati	on box.	

- If you choose DHCP, an IP address is assigned to you.
- If you choose Static, the last static IP address you saved is available to edit. If you haven't previously saved a static IP address, default values for a static IP address are available to edit.

4. OPTIONAL: Configure your static IP address.

Networking	9	
Configuration	Static	
IP Address	0.0.0.0	
Subnet Mask	0.0.0.0	
Default Gateway		
DNS (Preferred)	0.0.0.0	
DNS (Alternative)	0.0.0.0	
MAC Address		
Link Speed	no connection	
	Save and close Cance	el 🛛

- Enter a value for your IP address and subnet mask.
- If you want to stream from the internet, for example from a Wowza server, enter a value for your gateway.
- If you want to refer to a source by name, enter a value for DNS.

If you need help with network settings, contact your network administrator.

Finding the MAC address of your Streaming media and 4K playback input module

- 1. In CORIOgrapher, select [™] Settings > Module Configuration.
- 2. Find the Streaming media and 4K playback module that you want to set up, and select ••• > Configure.

Module Configuration				
			CORIO	view MWP-
	4 SPDIF 1-OUT	1	MEDIA_4K IN	Configure
	Power	3	NO CARD	E Manage Media Players > CPU

3. Read the MAC address.

Networking	9
Configuration	DHCP
IP Address	172.
Subnet Mask	255.
Default Gateway	172.
DNS (Preferred)	172.
DNS (Alternative)	10.
MAC Address	
Link Speed	1 Gbps
	Save and close Cancel

Playlist settings

If you have a Streaming media and 4K playback input module, you can view the status of your playlists, delete all playlists or individual playlists, move playlists between modules, and rename playlists.

In this section

Renaming playlists and moving playlists between modules	.57
Deleting playlists	. 57

Renaming playlists and moving playlists between modules

You can see a list of all your playlists on all your Streaming media and 4K playback input modules. You can rename your playlists and move them between modules.

Playlists created in one mode are not displayed in other modes as they are not compatible with the playback method.

Renaming your playlists

- 1. In CORIOgrapher, select [™] Settings > Playlists.
- 2. Find the playlist you want to rename, and enter a new name.

Number	Name	Module	Resolution	
1	Playlist1	Slot1 ×	1920x1080p60	Remove
2	Playlist2	Slot1 ×	1920x1080p60	Remove
3	Playlist3	Slot1	1920x1080p60	Remove

Moving playlists

- 1. In CORIOgrapher, select [™] Settings > Playlists.
- 2. Find the playlist you want to move and select the new module from the list.

Number	Name	Module	Resolution	
1	Playlist1	Slot1 ×	1920x1080p60	Remove
2	Playlist2	Slot1 ×	1920x1080p60	Remove
3	Playlist3	Slot1 ×	1920x1080p60	Remove

Deleting playlists

If you have a Streaming media and 4K playback input module, you can delete all your playlists, or individual playlists.

Deleting all your playlists

- 1. In CORIOgrapher, select ⁽²⁾ Settings > Playlists.
- 2. Select Remove all saved playlists.

Playlists	
Total	20
Used	3
Available	17
	Remove all saved playlists

Deleting individual playlists

- 1. In CORIOgrapher, select 🔅 Settings > Playlists.
- 2. Find the playlist you want to delete.
- 3. Select Remove.

Number	Name	Module	Resolution	
	Playlist1	Slot1 ×	1920x1080p60	Remove
	Playlist2	Slot1 ×	1920x1080p60	Remove
	Playlist3	Slot1 ×	1920x1080p60	Remove

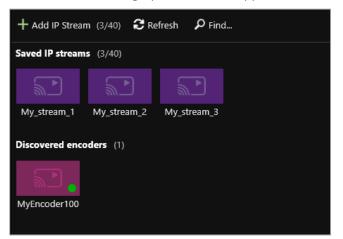
Managing encoders and streams

You can view and manage all your encoders and saved streams.

Select 🕸 Settings > IP Streams.

Managing your encoders

Encoders that CORIOgrapher[™] detects appear under Discovered encoders.



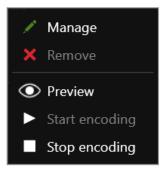
You can:

- Refresh the list of encoders.
- Search for an encoder that doesn't appear automatically.
- Select an encoder to see details about that encoder.
- Select ••• to:
 - Manage the encoder, or change your configuration.

Read about configuring your Magenta Encoder-100 at help.tvone.com/r/docs/cm2/encoder-100/1.

- Remove an inactive encoder.
- Preview the stream from an encoder.

• Start or stop encoding.



Managing your saved streams

Streams that you add and save manually appear under Saved IP streams.

- You can see how many streams you have, and how many slots you have left.
- You can add new streams, and remove all your saved streams.

IP Streams		
Total	40	
Used		
Available	37	
	Remove all sav	ed IP streams
+ Add IP Stream (3/40)	C Refresh	🔎 Find

- You can edit the name and URL of saved streams.
 - 1. Select the stream and then select ••• > Edit.
 - 2. Edit the name or URL of the media stream.

Add new	IP Stream		
Name:	wowzaStream		
URL:	rtsp://17		
		Add IP Stream	Cancel

Read about configuring your Magenta Encoder-100 at help.tvone.com/r/docs/cm2/encoder-100/1.

Resolution Editor

Administrators can manage custom resolutions.

In this section

About custom resolutions	
Creating and editing custom resolutions60	

About custom resolutions

What are custom resolutions

Your device has a number of commonly used resolutions that you can choose from for your displays or detected from a source connected to the input module.

Custom resolutions are resolutions that you can define yourself to get extra support that is not built-in to your device already.

It's important to understand that not all custom resolutions will work with your setup because there are many factors that can influence if a resolution is usable, for example the hardware used in sources and displays, the cables used and their length, or the requirements of the device.

When to use custom resolutions

Create a custom resolution when the resolution your source or display requires is not one of the built-in resolutions.

Custom resolution for inputs and outputs

Inputs and outputs have different requirements which is why not all resolutions are available for different module types.

4K modules can support a wider range of resolution values than 2K modules.

SDI modules do not support custom resolutions.

Creating and editing custom resolutions

Add a custom resolution to use with outputs

Due to the requirements of the outputs to be able to show video synchronized, all displays on the same canvas must have the same frame rate, for example all displays are showing video at 60 Hz.

We've created a custom resolution algorithm that maximizes the likelihood that the resolution will work in your setup.

- 1. In CORIOgrapher, select [™] Settings > Resolution Editor.
- 2. Select + Add output resolution (easy) to show the dialog.



3. Enter the desired resolution into the width, and height, and select the frame rate.

Add New Output Custom Resolution				
Enter your desired resolution: webb height webb is a state webb is a state webb is a state the set of the state the output? In ho	Hame: 1 Starbigster Buel Cock: The Lip Joint: Action paints Sync. And (pends): Rodmy: Requesty: Rodmy:	7500 160 7276 32 32 32	the output from the	
Custom resolution available) Resolu	ion will be automatically saved to your device	Add new resolution Cancel	
	naximum suppo vidth, height, or f			eight, so not all values will be allowed at the same time, trying ole resolution.
	rch the CEA-861 creating a new cu			iation) resolution list for matches and if found you can add this
OPTIONAL: Cho values used to	eck the 2K op make the res	tion if you re	quire a resc patible with	lution for a 2K output, as this will limit the maximum a 2K output module.

- 5. OPTIONAL: Configure the other options to help make a resolution that is compatible for your needs.
- 6. Select Add new resolution to add the resolution to the resolution list for your configuration. The resolution will now be selectable for compatible outputs and connected sources.

If you are connected to a device the resolution will be automatically sent and saved to your device.

Add a custom resolution with the advanced options

Sometimes you might already know the resolution timing values from the manual or specification sheets of the connected devices. These could be specific to the device, or from an existing standard.

🛇 If you are creating a custom resolution for outputs it is recommended to use the 🕂 Add output resolution (easy) dialog.

- 1. In CORIOgrapher, select [™] Settings > Resolution Editor.
- 2. Select + Add input or output resolution (advanced) to show the dialog.

Rese	olution Editor		
0/20	+ Add output resolution (easy)	+ Add input or output resolution (advanced)	Show all resolutions
#	IO Nama	Width Haight Frequency Divel Clock	In Lise Actions

3. From this dialog you can select the timing method you would like to use to add the resolution:

Timing: Manually create a custom resolution *					
Options:					Some custom resolutions may not work for your
Manually enter values for required custom resolution. For Interlaced values set double the even field for Vietical		0.000000 MHz	Aspect		
Front Porch, Back Porch, and Sync Pulse.					
- Enter required Pixel Clock, Horizontal, or Vertical Frequency.					
		0			Colour space Auto setting
NOTES:	Front Porch (pixels):				will default to RGB. You can
 Manually editing a resolution will not update the name automatically. 					change the color space for
- Press the X in the Name box to clear and auto-generate the name.					
		Positive *		Positive *	
		0.000000000 kHz			
The current values result in an unsupported resolution:					
PixelClock: Allowable range is 13.5 to 594 MHz			- D		
					Add Care

You may get warnings about the resolution values if they produce a resolution that is outside the allowable ranges.

Manual

4.

Allows you enter the values directly. The blue boxes are linked depending on the total values, so changing one will update the other two.



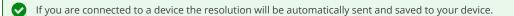
For interlaced resolutions the vertical sync pulse, and front and back porches must be twice the even field.

CORIOmaster2 output resolution generator (tvONE)

Enter the values to create a custom resolution for your outputs that is compatible with the requirements of the output modules.

• This is the same method as the + Add output resolution (easy), but will not search the existing resolutions, or the CEA list for matching resolutions.

- CVT v1.2 Standard (VESA Coordinated Video Timing)
- This method uses the CVT formula to create a resolution which are best for analog devices.
- CVT v1.2 Reduced Blanking (VESA Coordinated Video Timing)
- This method uses the CVT Reduced Blanking formula to create a resolution which are best for analog devices.
- DMT 1.0r11 (VESA Display Monitor Timing)
 Select from the list of DMT resolutions which are best for analog devices.
- CEA-861-F (Consumer Electronics Association)
 - Select from the list of CEA resolutions which are best for digital devices.
- 4. Select Add to add this to the resolution list for your configuration. The resolution will now be selectable for compatible outputs and connected sources.



Edit a custom resolution for outputs

You might just want to make a tweak to resolution instead of deleting and create it again.

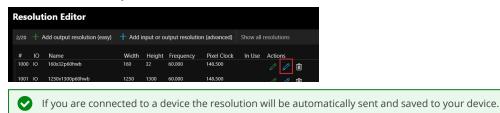
- 1. In CORIOgrapher, select [™] Settings > Resolution Editor.
- 2. Find the resolution you want to edit and select (green) \mathscr{O} to show the edit custom output resolution dialog.

/20 -	- 4	Add output resolution (easy)	+ Add	input or o	utput resolutio	n (advanced)	Show all	resolutions	
¢ β	0	Name	Width	Height	Frequency	Pixel Clock	In Use	Actions	
000 10		160x32p60hwb	160		60.000	148.500		00	۱.
001 10	D	1250x1300p60hwb	1250	1300	60.000	148.500		<u></u>	ı Î

Edit a custom resolution with the advanced options

You might just want to make a tweak to resolution instead of deleting and create it again.

- 1. In CORIOgrapher, select [™] Settings > Resolution Editor.
- 2. Find the resolution you want to edit and select blue \mathcal{O} to show the edit advanced resolution dialog.



Delete a custom resolution

- 1. In CORIOgrapher, select 🔅 Settings > Resolution Editor.
- 2. Find the resolution you want to delete and select $\hat{\mathbb{I}}$.



If you are connected to a device the resolution will be automatically deleted on your device.

Show built-in resolutions

- 1. In CORIOgrapher, select \Im Settings > Resolution Editor.
- 2. Select Show All Resolutions to show all the resolutions including built-in and custom.

Resolution Editor										
	2/20	+ /	Add output resolution (easy)	+ Add input or output resolution (advanced)				Show all resolutions		
	#	ю	Name	Width	Height	Frequency	Pixel Clock	In Use	Actions	
			640x480p60	640	480	59.940	25.175			
			640x480p72	640	480	72.809	31.500			
	3	10	640x480p75	640	480	75.000	31.500			

Using your CORIOmaster2[™]

When your equipment is installed and you've recreated your installation in CORIOgrapher™, you can play streaming media, and add transitions and effects to your video wall.

In this section

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Presets

You can create and save up to 50 presets in CORIOgrapher™.

In this section

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Creating and editing presets

You can create and save up to 50 presets in CORIOgrapher™.

What is a preset?

A preset stores information about windows, including positions, transitions, and effects such as borders or rotation. You can save presets and recall them later from the dashboard.

What is included in a preset?

Presets store information about windows, including:

- Optionally, source playing in the window
- Position
- Z order, or stacking order
- Size
- Rotation
- Border
- Flip
- Source change transitions
- Fade to black

What is not included in a preset?

- System settings
- Displays
- Canvases other than the one you are working on

For example, if you have canvas 1 and canvas 2 set up, but you have canvas 1 open in 🟵 Editor when you save a preset, the preset contains only information about canvas 1.

- Audio settings, including which window is playing audio, which source is playing breakaway audio, and whether you have chosen breakaway mode or audio-follows-video mode.
- Window:
 - Quality
 - Full name
 - Alias
 - Canvas
 - Keying

You can save all this information as a backup file. Read more on page 48.

For best results

To prevent your presets behaving unexpectedly, follow the advice below.

Build your busiest preset first

Build the preset with the highest number of windows first. Include all the windows you want to use in all your presets for the canvas you're working on.

Move any windows that aren't for this preset away from the displays, and shrink them to reduce bandwidth.

Don't use presets to add and remove windows

If you want to remove a window from your displays with a preset, don't delete the window.

• Move the window away from the displays.

Preset 1

Reduce the size of the window to reduce unnecessary video bandwidth.
 Note: windows that aren't on the display still take up bandwidth.





X Preset 2



If you delete a window from a canvas, that window is also deleted from any presets for that canvas.

Don't use presets to change window quality

Don't change the quality of a window that is included with a preset.

For example, if you save a preset that contains two windows of UHQ quality, and then change the quality of one window to EHQ, it will not return to UHQ when you load the preset.

If you want to reduce the video bandwidth consumed by a window, consider shrinking it instead.

Windows used in presets only appear on one canvas

You can't use windows that are included in presets on more than one canvas.

Creating a new preset with all windows

- 1. Create an installation on a canvas and select 🖽 Show presets.
 - ୯ り ᠿ 싙 趵 U. \odot Show Undo Redo Test Show Snap Pixel Edge Preview
- 2. From 🖽 Presets, select + New.
- 3. OPTIONAL: Select the number where the preset will be created. The next available location is automatically selected.
- 4. Enter a name for your preset.

Names can be up to 19 characters long, and cannot contain ".

Add new preset	
Nu	umber 1 💙
1	Name Preset1
Dur	ration 🛛 0.0 s 🜲 (max 60.0)
· · · · · · · · · · · · · · · · · · ·	it only 🗆 🚍 anvas 📄 0 windows selected
Add with all windows	Choose windows Cancel

5. Enter or select a duration for your preset.

The duration is the time taken to transition to this preset.

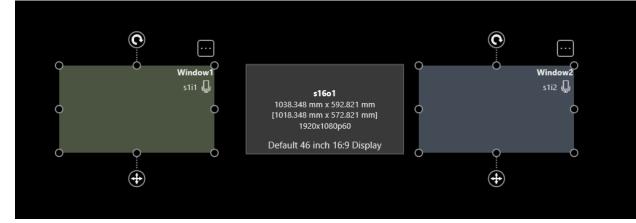
- 6. OPTIONAL: Select Layout only to create a preset that doesn't update the window sources, for example if you want to move windows and keep the sources the same.
- 7. Select Add with all windows.

Creating a new preset with windows that are selected on the canvas

1. Create an installation on a canvas and select 🖽 Show presets.



2. From the canvas, select the windows you want to include in the preset.



- 3. From \square Presets, select + New.
- 4. OPTIONAL: Select the number where the preset will be created. The next available location is automatically selected.

5. Enter a name for your preset.

Names can be up to 19 characters long, and cannot contain ".

Add new preset			
Preset	name Preset2		
Preset dur	ration 0.0 s 🛟 (max 60.0)		
Layout only 🗌 🗔 Windows selected on canvas 🗹 2 windows selected			
Add with selected windows	Choose windows Cancel		

- Enter or select a duration for your preset.
 The duration is the time taken to transition to this preset.
- 7. OPTIONAL: Select Layout only to create a preset that doesn't update the window sources, for example if you want to move windows and keep the sources the same.
- 8. Select the Windows selected on canvas option.
- 9. Select Add with selected windows.

Creating a new preset and choosing which windows to include

1. Create an installation on a canvas and select 🖽 Show presets.



- 2. From 🖽 Presets, select + New.
- 3. OPTIONAL: Select the number where the preset will be created. The next available location is automatically selected.
- 4. Enter a name for your preset.

Names can be up to 19 characters long, and cannot contain ".

Add new preset			
Number 1			
Name Preset1			
Duration 0.0 s 🔶 (max 60.0)			
Layout only 🗔 🚍			
Windows selected on canvas 🗌 0 windows selected			
Add with all windows Choose windows Cancel			

5. Enter or select a duration for your preset.

The duration is the time taken to transition to this preset.

- 6. OPTIONAL: Select Layout only to create a preset that doesn't update the window sources, for example if you want to move windows and keep the sources the same.
- 7. Select Choose windows, the preset editor will show.

8. Select or clear which windows you want to include in your preset.

Vindow1 s1i1	s301 1038.348 mm x 592.821 mm [1018.348 mm x 572.821 mm] 1920x1080p60 Default 16:9 Display	

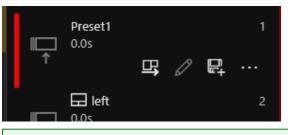
9. Select imes Close from the preset editor toolbar.

Edit a preset in the preset editor

1. With existing presets for the canvas, select \square Show presets.



- 2. From \square Presets, find the preset you want to edit and select O.
- 3. A red bar indicates the preset is being edited.



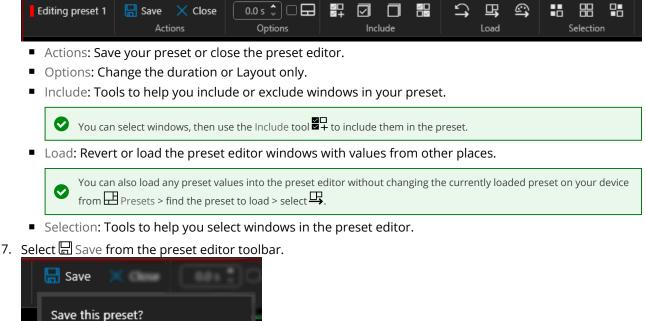
Preset and window input events won't update the windows while you are editing your preset.

4. Select or clear which windows you want to include in your preset.

✓ Winda s1i1		

5. Update the included windows for the preset, for example change their position, rotation, border color, or change which windows are included in the preset.

6. You can use the preset editor toolbar to perform various actions.



🔚 Save 🗶	
Save this prese	et?
Preset1	
0.0 s 🗘 (m	ax 60.0)
Layout	only
Save	Save and close

- 8. OPTIONAL: You can change the preset options, for example name, duration, or layout only.
- 9. Select Save or Save and close.

Previewing changes on the device while editing a preset

1. With existing presets for the canvas, select \square Show presets.



2. From \square Presets, find the preset you want to edit and select \mathscr{O} .

When editing a preset **Example** Live changes is turned off so you can make changes to the preset without affecting the live window values on the device.

- 3. You can turn 🖅 Live changes back on to see your updates in real-time on the device. or
- 4. You can select \square Take to send all changes to the device.

You will need save any changes and close the preset editor to test your preset transitions in context with your other presets . \bigcirc Read more about loading presets on page 72.

Quick edit, overwrite, cloning, and deleting presets

You can change the name and duration of a preset, or overwrite a preset with a new configuration.

To quickly change the name or duration of a preset

1. Select 🖽 Show presets.



- 2. In 🖽 Presets, find the preset you want to edit, select 🕶 and select 획.
- 3. Enter a new name or duration.

To overwrite a preset

1. Create the new arrangement on your canvas and select 🖽 Show presets.



2. In \square Presets, find the preset you want to overwrite and select \square .



If you want to keep the existing preset windows select Choose windows.

To clone a preset

1. Select 🖽 Show presets.



In ☐ Presets, find the preset you want to clone, select ••• and select □.
 A new preset is added to the end of the list.

To delete a preset

1. Select 🖽 Show presets.



2. In \square Presets, find the preset you want to delete, select ••• and select $\hat{\blacksquare}$.

Loading a preset

If you have saved one or more presets in CORIOgrapher[™], then you can choose a preset to load.

What is a preset?

A preset stores information about windows, including positions, transitions, and effects such as borders or rotation. You can save presets and recall them later from the dashboard.

Loading a preset from CORIOgrapher

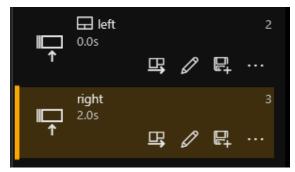
You can load any of your saved presets in CORIOgrapher from 🗐 Dashboard or 🏵 Editor.

From Dashboard, select a preset.

		TE ↑ Live Take changes
	Canvas1 stream2 stream2 camera2 camera1 None	0
PRESETS		
Canvas1	4windows 1window	
WINDOW SOURCES		
Window1 🚨 🖓 🛛	stream1 stream2 camera1 camera2	
Window2	stream1 stream2 camera1 camera2	
Window3 D 🖉	stream1 stream2 camera1 camera2	
Window4 🖉 🔿 [stream1 stream2 camera1 camera2	

Or

- From Editor, select \blacksquare Show presets. In \blacksquare Presets, find the preset you want to show, select \blacksquare .
 - The yellow bar indicates the last loaded preset.



Show me some preset scenarios

You can use presets to create installations for various scenarios, from simple to sophisticated. Using the presets correctly can dramatically reduce the number you will need to achieve your desired results.

All the windows presets

All the windows presets are great for resetting the canvas to a known state, for example at the start of the day, event, or meeting. You can put all the windows and source selections back to something you know is good to use.



Layout only presets

Presets can be created that do not change the source selection of windows. This can be used when you want to change the layout of the windows, but keep your window sources as you have set them.

You can change the window source for specific windows from CORIOgrapher or with a third-party controller using the API.

Control different aspects of the same area on the canvas

You can control different groups of windows in your installation on the same canvas, for example you have a main presenter display and 2 side displays, you can create presets that only change the windows you want.



Zone your canvas

If using different canvases is not possible then you can extend the concept of controlling different areas to zoning your canvas.

Recommendations when naming presets:

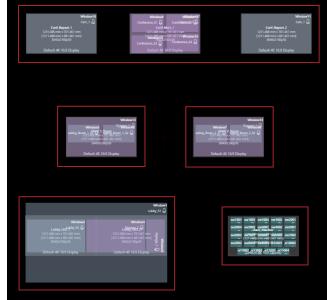
- Create prefixes for the different zones, for example Room_1_ and Room_2_.
- Prefix your displays with the same zone as your presets to help organize the canvas, for example Room_ 1_LED_1.
- Have a 'reset all' preset that puts the whole canvas back to a known good state, for example 'Default Start Up'.
- Have a 'reset zone' preset for example Room_1_Reset or Room_1_Default.
- Leave enough space between the zones for window transitions on and off the displays.
- Third-party controllers can use the prefix to filter by zone, so you only see the presets you are interested in.

Space is important

X Zones are too close together



Zones have enough space to move windows around the displays



Adding more windows with existing presets.

If you are adding new windows after you have created presets then existing presets will not know about the new windows. When you load a preset these windows will not update, if this is undesirable behavior you can include them in your presets.

You can use the preset window analyzer to help identify presets and windows that need your attention.

Enabling or disabling the preset window analyzer

1. From O Editor, select \blacksquare Show presets. In \blacksquare Presets, select \Box ? to enable or disable the analyzer.

Presets	×
6/50	$\Box_?$ + New

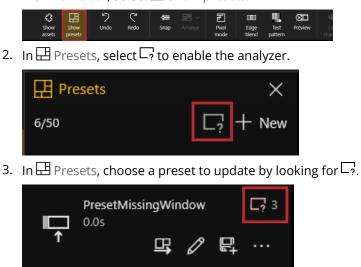
- 2. If you have windows missing from presets then a dialog will give you instructions on what you can do.
- 3. Check each canvas and look for \Box_2^2 on presets and windows to indicate what needs your attention.

PresetMissingWindow • PresetMissingWindow • • • • • • • • • • • • • • • • • •	다? Window4 s2i4 및
You can disable the preset window analyzer when you h	ave finished.
The analyzer is disabled each time you load or read a de	vice configuration.

Manually updating presets with the new windows

1. From ⁽¹⁾ Editor, select III Show presets.

WithWindows123



- 4. Select \mathcal{O} to edit the preset. This will load the preset into the preset editor without changing the currently loaded preset on your device.
- 5. Include and reposition your windows.
- 6. Select 🗄 Save from the preset editor toolbar.

Read more about editing presets on page 65.

Bulk updating presets

Do not bulk update presets if you are deliberately using selected windows in your presets.

1. From ⁽²⁾ Editor, select II Show presets.



2. In \square Presets, select \square ? to enable the analyzer.



3. In \square Presets, select \square + to bulk update the canvas presets.



4. We will automatically add the windows that are not in the presets in their current location.

You can do a mixture of manually updating some presets, and bulk updating the rest.

Changing the source playing in a free window

You can choose which source plays in any free window in CORIOgrapher[™]. You can't change the source playing in a dedicated window. Dedicated windows are always cyan. The color of free windows depends on the quality of the window.

Changing the source in CORIOgrapher from the Properties panel

- 1. From ⁽²⁾ Editor, double-click the free window you want to change.
- 2. From Properties, choose a source from Input Slot.

Displays & Window	vs Properties			
MEDIA_4K IN Slot1.In2				
▼ Common				
Alias	Window1			
Input Slot	Channel2MediaStream ×			
Status	Channel1MediaStream			
Quality	Channel2MediaStream			
-	Camera1			
Resolution	Camera2			
HDCP	Off			
Media Player	Manage			
Module Status	READY			

Changing the source in CORIOgrapher from the window

- 1. From 3 Editor, select the free window you want to change.
- 2. Select •••, choose a source from list.



Changing the source using the dashboard

You can change the source playing in any free window from the dashboard in CORIOgrapher.

1. From 🗐 Dashboard, find the free window you want to change, and select a source.

		Canvest stream2 stream2 camera2 camera1 None • 0 Displays 및 (1)	Canvas2
PRESETS			
PRESETS Canvas1		4windows Twindow	
	JRCES	4mindows 1window	
Canvas1	JRCES	Anindow Twindow stream1 stream2 camera1	count
Canvas1 WINDOW SOL Window1			comm2
		stream1 stream2 camera1	

2. Select [¬] Take.

Using audio

CORIOmaster2[™] supports embedded audio.

Read about setting up and testing your audio on page 44.

In this section

Plaving embedded audio	 79
i laying chibeaaca aaalo	

Playing embedded audio

You can play embedded audio. There are two modes, breakaway audio mode, and audio-follows-video mode.

Read about setting up and testing your audio on page 44.



Audio is not saved as part of a preset.

Audio settings are set for sources, not windows. If you adjust or mute the audio from a window, all the windows playing that source are affected.

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About embedded audio

- You can play embedded audio from any input port on any input module, as long as the embedded audio is in uncompressed PCM format, at 48 kHz.
- You can play embedded audio, and audio from the S/PDIF and analog audio module, on any output device associated with your video wall.
- CORIOmaster supports 2-channel audio, and does not support surround sound.
- You can only play audio from the S/PDIF and analog audio module in breakaway audio mode.

Disabling and enabling audio for a source or display

If you never want to hear a source, or you never want to play audio on a specific display, you can disable it.

Administrators can disable audio from 🔅 Settings > Slot Status.

Administrators and power users can disable audio from O Editor > Properties.

Users cannot re-enable the audio, so if you want other users to be able to restore audio, mute the source or display instead.

When the audio from a source is disabled, it is not available to select from the wall editor or the dashboard. When the audio to a display is disabled, the button to mute and unmute audio on that display is not available from Displays & Windows.

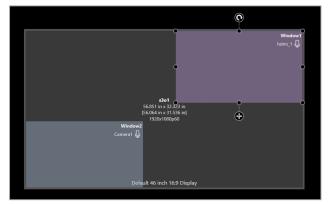
Disabling and enabling audio from Slot Status

Administrators can disable and enable sources and outputs.

- 1. Select 🔅 Settings > Slot Status.
- 2. Select or clear Audio Enabled.

Input Slots					
Slot	Name	Audio Enabled			
Slot1.In1	stream1				
Slot1.In2	stream2	V			
Slot2.In1	camera1	V			
Output	Slots				
Slot	Name	Audio Enabled			
Slot3.Out1	Screen1				
Slot3.Out2	Screen2				
Slot4.Out1	SPDIFOut	V			

Disabling and enabling an audio source playing in a window from Properties Administrators and power users can disable audio sources. 1. From ⁽²⁾ Editor, select a window.



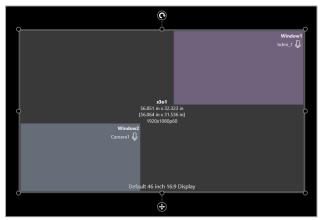
- 2. Select Properties > Input Settings (shared).
- 3. Select or clear Audio Enabled.

Displays & Windows Properties
MEDIA_4K IN Slot1.In2
▶ Common
 Input Settings (shared)
Color Scale Auto 💙
Src Loss Color Blue
Dither
Audio Enabled 🗹
Mute Audio
▶ General
▶ Border
Transition Effects

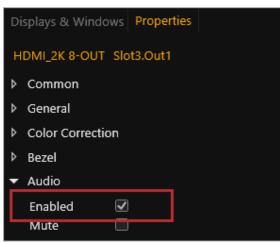
Disabling and enabling audio for a display from Properties

Administrators and power users can disable audio for displays.

1. From ⁽²⁾ Editor, select a display.



- 2. Select Properties > Audio.
- 3. Select or clear Audio Enabled.



Choosing what to listen to with CORIOgrapher

All users can choose what embedded audio to listen to.

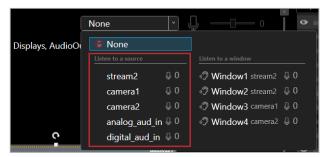
Choosing a source to listen to with breakaway audio mode

What's breakaway audio?

Breakaway audio is independent of the windows on your video wall. It doesn't change when the sources playing in your windows change. The audio is sent to all enabled outputs.

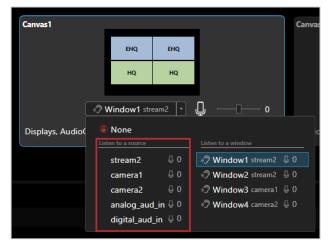
When you choose breakaway audio mode, you hear your chosen audio all the time, even if your video sources change.

• From 🟵 Editor, select a source from the list.



Or

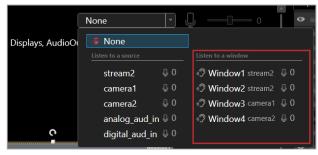
From Dashboard, select a source from the list.



Choosing a window to listen to with audio-follows-video mode

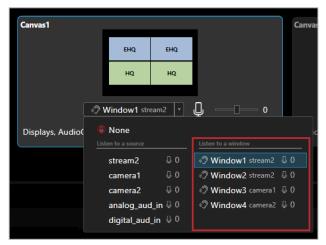
When you choose audio-follows-video mode, you listen to a window. If the source playing in that window changes, the audio changes to play the new source.

From ¹ Editor, select a window from the list.



Or

• From 🗐 Dashboard, select a window from the list.



Choosing which outputs play audio

Audio from any source is sent to all the displays associated with a canvas. If you have an S/PDIF and analog audio module, the audio is also sent to the output associated with the canvas.

Read more about the S/PDIF and analog audio module on page 18.

You can see where audio is sent from 🟵 Editor:



And from Dashboard:

Canvas1					
	EHQ	EHQ			
	HQ	HQ			
No	ne	•	<u> </u>		
None v U 0 Displays, AudioOutput1 T (10)					

You can choose to only send audio to one or more specific outputs by disabling or muting the other outputs.

Read about disabling outputs on page 80.

Read about muting outputs on page 87.

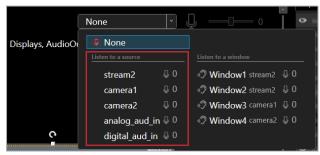
Adjusting input audio level and muting sources

All users can mute, unmute, and adjust the input audio level for any source.

Adjust the input audio level to match and balance the audio levels of different sources. For example, if you have one very loud source, lower the input audio level until it matches your other sources.

To mute and unmute a source

- 1. Select a source.
 - From 🟵 Editor:



From 🗐 Dashboard:

Canvas1					Canv
		EHQ	EHQ		
		HQ	HQ		
			- 10		
	√ ?∿	Vindow1 str	eam2 ×	Ų — 0	
Displays, Audio(None			
	List	en to a source		Listen to a window	
		stream2	0 0	Window1 stream2	00
		camera1	0	Window2 stream2	00
		camera2	θO	Window3 camera1	₽ 0
		analog_auc	l_in	Window4 camera2	₽0
		digital_aud	_in 🌡 0		

2. Mute or unmute the source.

From ジ Editor:



From 🚍 Dashboard:

Canvas1					
		EHQ	EHQ		
		HQ	HQ		
	No	ine	•	Q0	
Displays, AudioOutput1 ワ (い) 100					

- To mute audio, select .
- To unmute audio, select 🖗.

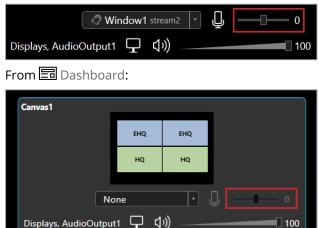
To adjust the input audio level for a source

1. Select a source.

	None	•	₽	•
Displays, AudioO	Ø None			
	Listen to a source		Listen to a window	
	stream2	₿0	Window1 stream2	₽0
	camera1	₽0	Window2 stream2	0 ⊈
	camera2	₽0	Window3 camera1	0 ⊈
	analog_aud_in	0 ⊈	Window4 camera2	₽0
°.	digital_aud_in	₿0		

2. Adjust the input audio level.

From 🟵 Editor:



- Slide to the right to increase audio input.
- Slide to the left to reduce audio input.

Muting individual audio outputs

Administrators and power users can mute and unmute individual outputs.

From ⁽²⁾ Editor > Displays & Windows:



- To mute audio, select 🕬.
- To unmute audio, select ◀×.

Outputs that do not show ↓) or ↓ × are disabled in 🐯 Settings > Slot Status.

Outputs that show \mathfrak{q} are cut to black and muted, or the canvas is muted.

Cutting to black and muting individual outputs

Administrators and power users can cut to black and mute individual outputs, and restore them.

From ⁽²⁾ Editor > Displays & Windows:

Dis	play	rs 8.	Windows Properties	
ø			DISPLAYS	Add
o		€×	🛃 hdmi4k1_1	×
ø			🖵 hdmi4k1_2	×
•		다))	🖵 hdmi4k1 3	×

- To cut a display to black and mute, select \square .
- To restore a display, select 🔽.

Adjusting volume and muting all displays and outputs associated with a canvas

All users can mute, unmute, and adjust the volume for all displays and outputs associated with a canvas at the same time in CORIOgrapher.

To mute and unmute all displays and outputs associated with a canvas

From ジ Editor:

v Window1 stream2 v ↓	0
Displays, AudioOutput1 🖵 🕼	100

From 🛅 Dashboard:

Canvas1					
	EHQ	EHQ			
	HQ	HQ			
No	ne	•	o		
Displays, AudioOutput1 🖵 🕼 100					

- To mute audio, select (小)).
- To unmute audio, select ^[]×.

To adjust the volume for all displays and outputs associated with a canvas From ⁽²⁾ Editor:

 ⁽²⁾ Window1 stream2

 ⁽²⁾ □ □ □ 0

 Displays, AudioOutput1

 ⁽¹⁾ □ □ □ 0

 From □ Dashboard:

 ⁽²⁾ □ □ □ □ 0

 ⁽²⁾ □ □ 0

- Slide to the right to increase volume
- Slide to the left to reduce volume

Displays, AudioOutput1 🖵 🕼

Cutting to black and muting all displays and outputs associated with a canvas

100

All users can cut to black and mute, and restore, all displays and outputs associated with a canvas at the same time in CORIOgrapher.

To cut to black and mute all displays and outputs associated with a canvas

From ジ Editor:

	Northead Stream 2	•	Ţ	0
Displays, Audio(Dutput1 🖵 🕬			100

From 📰 Dashboard:

Canvas1						
	EHQ	EHQ				
	HQ	HQ				
1	lone	•	o			
Displays, AudioOutput1 ロロ (小) 100						

- To cut to black and mute all displays and outputs associated with the canvas, select $ar{P}$.
- To restore all displays and outputs associated with the canvas, select \square .

Controlling audio from the dashboard

All users can choose what to listen to, mute and unmute specific sources and the current source, mute all displays and outputs, and adjust the input audio level and volume.

	Canvas1
PRESETS	
Canvas1	4windows 1window
	OURCES
Window1	J 🗘 🖓 stream1 stream2 camera1
Window2	↓ ↓ ⑦ stream1 stream2 camera1
Window3	G U 5 stream1 stream2 camera1
Window4	Image: Stream 1 stream 2 camera 1
B	Select a source or window to listen to. Mute and unmute the source currently playing.
C	Adjust the input audio level of the source currently playing.
D	Cut to black and mute all displays and outputs, and restore all displays and outputs.
B	Mute and unmute all displays and outputs.
F	Adjust the volume of all outputs.
G	Mute the sources playing in specific windows.

Emergency cut to black and mute

All users can cut to black and mute, and restore, all displays and outputs across all canvases in CORIOgrapher > 🖃 Dashboard.

To cut to black and mute all displays and outputs

To cut to black and mute all displays and outputs, select 🐻.



₽ •× To restore all displays and outputs, select

Media and streams

If you have a Streaming media and 4K playback input module, you can play media items and streams.

In this section

Playing media and streams	91
Creating and managing playlists	102
Using the internal drive	
Choosing the best resolution for your playlist or play queue	112

Playing media and streams

If you have a Streaming media and 4K playback input module, you can play media items and video streams. Add up to 40 media items or streams to a play queue or saved playlist. Each Streaming media and 4K playback input module has two channels. Each channel has its own play queue.

In this article

Before you start	92
Adding and editing media streams	92
Adding media items, streams, and playlists to your play queue	94
Playing a multicast stream from an Magenta Encoder-100 on mult CORIOmaster2 units	
Changing the duration of media items	96
Playing streams with low latency	97
Using the playback controls	98
Managing the play queue	99
Saving the play queue	100
Show labels for media and streams	100
Playing the play queue automatically	101
Saving media to internal storage	101

Manage your media and streams in CORIOgrapher[™]. Double-click the window you wish to play media or streams, and select (Media Player) Manage.

Alias	Window1	
Input Slot	s1i1	~
Status	ОК	
HDCP Status	None	
Media Player	Manage	
Module Status	READY	
Health Status	-	

The media player is not available when you work offline.

Streaming media and 4K playback input modules in CORIOmaster2[™] units support embedded audio, for streams and media items with the following embedded audio formats:

- mp3
- aac

CORIOmaster2 automatically mutes audio from streams with low latency.

Read more about playing audio with your CORIOmaster2 on page 79.

Before you start

• To stream media from the internet or your network, you need to connect an Ethernet cable and configure the network settings for your Streaming media and 4K playback input module.



For best results, use Gigabit equipment and cables.

Read about configuring network settings for a Streaming media and 4K playback input module on page 55.

To turn any video source into a stream, you need an encoder. The encoder takes video and audio signals, converts them to an AVIP (Audio-Visual over Internet Protocol) signal, and sends them over your network. For example, you could encode and stream the signal from an endoscope, or from a camera in a lecture theater.

Read about the Magenta Encoder-100 on page 19.

 To play media directly from a USB drive, or copy media from a USB drive to internal storage, you need to connect a USB drive to your Streaming media and 4K playback input module.

Use a good quality, high-speed USB 3.0 drive.

- To play media saved in the internal storage of the Streaming media and 4K playback input module, you
 don't need to connect anything.
- To play any kind of media you need to set up a video installation with a window playing a channel from your Streaming media and 4K playback input module.

Read about setting up a basic video wall on page 39.

Adding and editing media streams

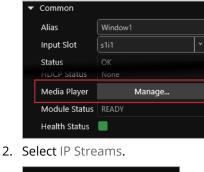
You can manually add media streams from your network or from the internet. You can configure and add streams from an Magenta Encoder-100.

Read about configuring your Magenta Encoder-100 at help.tvone.com/r/docs/cm2/encoder-100/1.

To manually add a stream

If you know the URL of the stream, and the stream is not hosted by an Magenta Encoder-100, use this method.

1. In ⁽²⁾ Editor, double-click the window you wish to play streaming media, and select (Media Player) Manage.





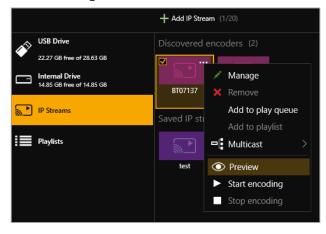
- 3. Select Add IP Stream.
- 4. Enter a descriptive name and the URL of the media stream, and then select Add IP Stream.
- 5. To edit the details of a media stream, select the stream and then select ••• > Edit.
- 6. Edit the name or URL of the media stream.

Add new IP Stream				
Name:	wowzaStream			
URL:	rtsp://17:			
		Add IP Stream	Cancel	

Previewing the stream from your Magenta Encoder-100

If you have an Magenta Encoder-100 that is streaming, you can preview the stream.

Select the Magenta Encoder-100, and then select ••• > Preview.



Adding media items, streams, and playlists to your play queue

You can add video clips, still images, and media streams to a play queue, up to a total of 20 items. Media items can be on a USB drive, in internal storage, streamed from your network, or streamed from the internet.

You can also add a playlist to a play queue. When you add a playlist to a play queue, the playlist replaces all the items in the play queue.

You add all types of media, streams, and playlists the same way, when the play queue is playing, paused, or stopped.

You can play audio embedded in video clips and media streams. You cannot play audio-only files.

1. In ⁽¹⁾ Editor, double-click the window you wish to play streaming media, and select (Media Player) Manage.



2. Select your media source.



3. Drag media items and streams, or a playlist, into the play queue.





4. Choose a resolution for your play queue.



Read about choosing the right resolution on page 112.

Read more about playlists on page 102.

Playing a multicast stream from an Magenta Encoder-100 on multiple CORIOmaster2 units

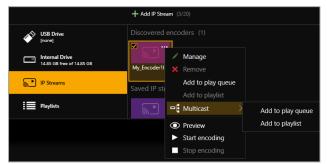
By default, your Magenta Encoder-100 supplies a single stream to a single CORIOmaster2. You can supply a multicast version of that stream to more than one CORIOmaster2.

Adding a multicast stream from an Magenta Encoder-100 to a play queue or playlist

• You don't need to configure your Magenta Encoder-100 to send a multicast stream, if your default address and TTL are correct for your network.

For more help, contact your network administrator.

- To add a multicast stream to the play queue, the play queue must be stopped.
- To add a multicast stream to a playlist, first select a playlist.
- 1. Select IP Streams.
- 2. Select the Magenta Encoder-100 you want to add.
- 3. Select ••• > Multicast > Add to play queue or Add to playlist.



Changing a single stream to a multicast stream

If you already added a single stream from an Magenta Encoder-100 to the play queue or a playlist, you can change the single stream to a multicast stream.

- 1. If the encoder is in a playlist, open the playlist.
- 2. Select the encoder, and select ••• > Edit.
- 3. Select RTSP Multicast.

Properties [My_Encoder100]			
URL: rtsp://164.254.11.104:8554/			
Duration: 00:00:00 🗘 (hh:mm:ss)			
Retry: 🗹 (for duration of media)			
RTSP Multicast: 🗹			
Low latency: 🗹			
Update item Cancel			

For best results

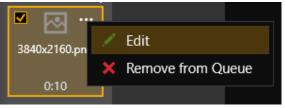
If you send a multicast stream on a large network, tvONE[™] recommends using equipment with IPv4 multicast addressing, and/or IGMP v2 support. For more information, contact your network administrator.

Changing the duration of media items

By default, still images play for 10 seconds, video clips play for the length of the clip, and streams play indefinitely, until the stream ends.

You can choose how long to play each media stream, video clip, or still image in the play queue.

- 1. In the play queue, select the media item.
- 2. Select ••• > Edit.



3. Optional: For video clips clear the Play to end option.



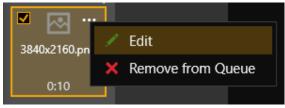
Edit the duration of the item, and select Update Item.
 The maximum duration is 23 hours, 59 minutes, and 59 seconds.

Properties [wowzaStream]			
URL: rtsp://164.254.11.240:1935/wowza-test/bbb- high-4.2-1920x1080p60.mp4			
Duration: 00:00:00 🗘 (hh:mm:ss)			
Retry: 🗹 (for duration of media)			
RTSP Multicast: 🗌			
Low latency: 🗌			
Update Item Cancel			

Playing streams with low latency

You can play streams with low latency.

- 1. In the play queue, select the stream.
- 2. Select ••• > Edit.



3. Select Low latency.

Properties [My_Encoder100]			
URL: rtsp://164.254.11.104:8554/			
Duration: 00:00:00 🗘 (hh:m	nm:ss)		
Retry: 🗹 (for duration of media)			
RTSP Multicast: 🗹			
Low latency: 🗹			
Update Item	Cancel		

Repeat these steps for every item in the play queue that you want to play with low latency.



CORIOmaster2 automatically disables the audio of streams with low latency. If you want to listen to audio from your stream, clear Low latency.

Using the playback controls

When the play queue is playing, you can:

	Stop playback
Ш	Pause playback
М	Skip to the next item
K	Return to the previous item
Remove item(s)	Remove an item from the play queue
Play Queue	Clear the play queue

When the play queue is stopped, you can:

17	Enable and disable looping
	Play the play queue
Remove item(s)	Remove an item from the play queue
Play Queue	Clear the play queue
3640x2100p23 3840x2160p29.97 Resolution	Change the resolution of the play queue

Managing the play queue

When the play queue is playing or stopped, you can:

- Drag new media items or streams into the play queue, up to a total of 20 items.
- Drag items to re-order the play queue.
- Change the duration of a media item in the play queue.
- Remove any item from the play queue.
- Clear the entire play queue.
- Choose to play the play queue when your CORIOmaster2 starts up.
- Drag a playlist into the play queue.

Dragging a playlist into the play queue replaces the existing play queue.

Saving the play queue

You can save your play queue so that it is available the next time you start your CORIOmaster2.

■ Build your play queue, and in ⁽¹⁾ Editor select 🗔 Set device startup.



You can save your play queue as a playlist.

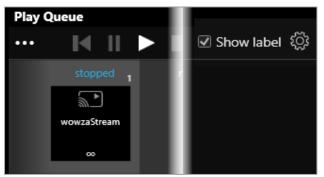
Build your play queue and select ••• > Save as playlist.

Play Queue			
• • • •			
1	Save as playlis	st	next
×	Clear queue		

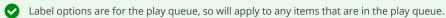
Show labels for media and streams

You can choose to have labels shown on the video for your media and streams on your CORIOmaster2.

1. Build your play queue and select Show label.



- 2. Select හි.
- 3. Choose, or set the options for the play queue label.



- 4. Select Apply to send the changes to your device. The dialog will remain open.
- 5. Select Close to close the dialog.

Close will discard changes that have not been applied.

Playing the play queue automatically

You can choose to play the play queue automatically when you start your CORIOmaster2.

1. Build your play queue and select Play on startup.



2. In Selitor, select 🗔 Set device startup.



Saving media to internal storage

You can save media items from your USB drive to the internal drive.

Read more about the internal drive on page 109.

Creating and managing playlists

If you have a Streaming media and 4K playback input module, you can save media items and video streams to playlists. Your CORIOmaster2[™] can store up to 20 playlists.

In this article

About playlists	
Creating a new playlist	103
Saving the play queue to a playlist	
Managing and editing playlists	105
Deleting a playlist	107
Moving playlists between modules	
Deleting all playlists	
Duplicating playlists	

Manage your media and streams in CORIOgrapher[™]. Double-click the window you wish to play media or streams, and select (Media Player) Manage.

Common		
Alias	Window1	
Input Slot	s1i1	•
Status	ок	
HDCP Status	None	
Media Player	Manage	
Module Status	READY	
Health Status		

The media player is not available when you work offline.

About playlists

- Your CORIOmaster2 can store up to 20 playlists.
- Each playlist can include up to 20 items, including still images, video clips, and streams.
- Playlists are shared between the two channels of a Streaming media and 4K playback input module, but are not shared between Streaming media and 4K playback input modules.
- Playlists save the names and paths of media items and streams. If you change the name, path name, or location of an item, the playlist cannot find it.
- You can create new playlists from scratch, or save your play queue as a playlist.
- Playlists are saved on your CORIOmaster2.
- You can choose to save or delete your playlists when you restore your CORIOmaster2 to factory default settings.

Creating a new playlist

1. Select Playlists > +.



2. Enter a name and choose a resolution for your playlist.

Names can be up to 64 characters long, or fewer, depending on your character set.



Read about choosing the right resolution on page 112.

3. Select your new playlist.

The playlist opens in the playlist editor. If the playlist editor is collapsed, select ▶ to open it.

▼ Playlist Editor						
 MyPlaylist1						
i Info						
MyPlaylist1	∭ ►	-	$\overline{\mathbf{x}}$			
3 items	wowzaStream	Video-04.mp4	still-image-01. png			
1920x1080p60	00	2:02:49	0:10			

- 4. Drag up to 20 media items and streams from the media browser into the playlist editor.
- 5. Make any changes to your playlist.
 - To reorder the playlist, drag and drop media items and streams.
 - To remove something from the playlist, select the media item or stream and select ••• > Remove from playlist.
 - To remove all items from the playlist, select ••• > Clear all items.

 Playlist Editor 		
MyPlaylist1	Edit details	
i Info	Load in queue	2
		~
MyPlaylist1	Load and play	nage-02.
3 items 1920x1080p60	🗙 Clear all items	png D:10

• To change the properties of an item, select the item, and then select ••• > Edit.

You can change the duration of an item in the playlist. You can choose to play a stream with low latency.

	to play a stream with low late	ncy, CORIOma
Properties [wowzas	Sueamj	
URL	rtsp://164.254.11.240:1935/wowza-tes high-4.2-1920x1080p60.mp4	t/bbb-
Duration	n: 00:00:00 🌲 (hh:mm:ss)	
Retry	r: 🗹 (for duration of media)	
RTSP Multicast		
Low latency	r. 🔲	
	Update Item	Cancel

6. To save your playlist permanently, select \square .

Saving the play queue to a playlist

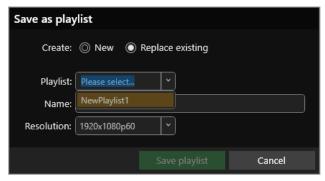
1. From the play queue, select ••• > Save as playlist.

Play Queue				
• • • •		-		
	Save as playlist	next		
×	Clear queue	TREAT		

- 2. Choose to create a new playlist, or to replace an existing playlist.
- 3. If you create a new playlist, enter a name and choose a resolution for your playlist.

Save as playlist					
Create:	🔘 New	© Re	place existing		
Name:	NewPlaylis	st			
Resolution:	1920x1080)p60			
			Save playlist		Cancel

4. If you replace an existing playlist, select a playlist to replace from the list. You can enter a new name and choose a new resolution for the playlist if you want to.



Names can be up to 64 characters long, or fewer, depending on your character set.

Read about choosing the right resolution on page 112.

Managing and editing playlists

You can edit playlists, clear all the items from a playlist, and open a playlist to edit the items. You can load a playlist to the play queue, and play a playlist.

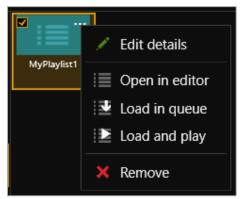
You can also manage the names and locations of your playlists in 🔅 Settings > Playlists.

Read more about configuring playlist settings on page 57.

Editing a playlist

You can change the name and resolution of a playlist.

- 1. Select Playlists and select a playlist.
- 2. Select ••• > Edit details.



3. Enter a new name or choose a new resolution.



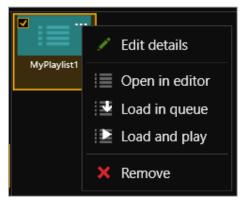
Clearing all the items from a playlist

• From the playlist editor, select ••• > Clear all items.



Opening a playlist to edit the items

- 1. Select Playlists and select a playlist.
- 2. Select ••• > Open in editor.



Read about the changes you can make to a playlist in Creating a new playlist above.

Loading a playlist to the play queue

When you load a playlist, any items in the play queue are replaced, and playback stops. You can:

- Drag a playlist into the play queue
- Select a playlist and select ···· > Load in queue.
- From the playlist editor, select

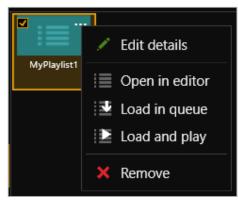
Playing a playlist

When you load and play a playlist, any items in the play queue are replaced. You can:

- Drag a playlist into the play queue and select
- Select a playlist and select ···· > Load and play.
- From the playlist editor, select 2.

Deleting a playlist

Select a playlist and select ··· > Remove.



Moving playlists between modules

You can change the slot that a playlist is associated with in 3 Settings > Playlists.

Number	Name	Module	Resolution	
1	Playlist1	Slot1 *	1920x1080p60	Remove
2	Playlist2	Slot1 *	1920x1080p60	Remove
3	Playlist3	Slot1 ×	1920x1080p60	Remove

Read more about configuring playlist settings on page 57.

Deleting all playlists

You can delete all your playlists in 🔅 Settings > Playlists.

Playlists	
Total	20
Used	3
Available	17
	Remove all saved playlists

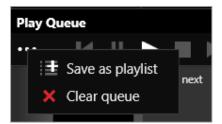
Read more about configuring playlist settings on page 57.

Duplicating playlists

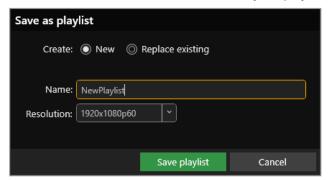
If you want several playlists to contain the same items, you can create a play queue and then save it under several different names.

For example, you might want all your playlists to contain a particular stream, and your company logo.

- 1. Drag items into the play queue.
- 2. From the play queue, select ••• > Save as playlist.



3. Enter a name and choose a resolution for your playlist.



- 4. Repeat steps 2 and 3. Enter a unique name for the playlist each time.
- 5. Open each new playlist and add items in the playlist editor.

Using the internal drive

You can save media to the internal drive of your Streaming media and 4K playback input module. You can manage your saved media, and add media items to a playlist or play queue.

In this article

Replacing all items on the internal drive with all items on the USB drive	109
Removing all items from the internal drive	
Current location	110
Copying a single item or folder to the internal drive	110
Managing media on the internal drive	110
Playing items from the internal drive	111

Manage your media and streams in CORIOgrapher[™]. Double-click the window you wish to play media or streams, and select (Media Player) Manage.

 Common 		
Alias	Window1	
Input Slot	s1i1	•
Status	ОК	
HDCP Status	None	
Media Player	Manage	
Module Status	READY	
Health Status		

The media player is not available when you work offline.

Replacing all items on the internal drive with all items on the USB drive

Use this option when you first set up your Streaming media and 4K playback input module to easily copy all your media items \bigcirc from your USB drive to the internal drive.

You can replace all the items on your internal drive with the items on your USB drive. All items currently on the internal drive are deleted.

All items on your USB drive are copied exactly to the internal drive, including folders and folder structure, up to path names of 480 characters, or fewer, depending on the language you use.

Items that aren't compatible with your Streaming media and 4K playback input module are copied to the internal drive, but not displayed. These items use memory, and you can't remove them manually. To remove hidden items, remove all items from the internal drive.

See the Streaming media and 4K playback module specification document for a list of compatible file types.

Ø

To replace all items on the internal drive with all items on the USB drive

Select (USB Drive) ••• > Replace all items on the internal drive.



Removing all items from the internal drive

You can remove all visible and hidden items from the internal drive.

Select Internal Drive > Clear all items.



Current location

When you copy media items from your USB drive to the internal drive, the items are copied to the last location you visited on the internal drive.

For example, you create a folder on the internal drive called Videos. You open Videos and then select USB Drive. You select a media item and copy it to the internal drive. The media item is copied to Videos.

Copying a single item or folder to the internal drive

You can copy individual media items and folders from your USB drive to the internal drive. Items are copied to the last location you visited on the internal drive.

- 1. From USB Drive, select a media item or folder.
- 2. Select ••• > Copy to internal drive (current location).



You can also copy and paste individual items and folders from your USB drive to the internal drive with Ctrl+C and Ctrl+V.

Managing media on the internal drive

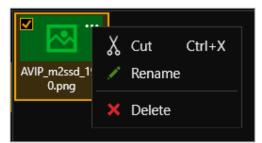
From Internal Drive, you can:

• Copy or cut and paste individual items and folders.

Select a media item or folder, and then select ••• > Copy or Cut. Right-click in an empty space and select Paste.

- Copy or cut and paste individual items and folders with Ctrl+C or Ctrl+X, and Ctrl+V.
- Delete media items and folders.

Select a media item or folder, and then select ••• > Delete.



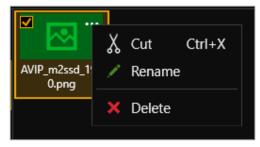
• Create a new folder.

Right-click in an open space, and select New folder. Enter a name for your folder.

New Folder				
Create /usr0/te	a new folder at: est			
Name:	NewFolder			
		Create folder	Cancel	

• Rename media items and folders.

Select a media item or folder, and then select ••• > Rename.



Playing items from the internal drive

You play items from the internal drive in the same way you play all media items and streams. Drag items into the play queue, or into a playlist.

Read more about playing media and streams on page 91.

Read more about playlists on page 102.

Choosing the best resolution for your playlist or play queue

The best resolution for your play queue or playlist depends on the frame rate of your media items, and their size in pixels.

The resolution you choose determines the input resolution used within your device. All media items in the play queue or playlist are automatically scaled to fit this resolution. If you find that the resolution you choose doesn't give you the results you want, you can change this resolution whenever you want.



The Streaming media and 4K playback input module supports two simultaneous channels playing media. The two channels can have different resolutions, and you can choose a custom value for channel one (slot *n* position 1). Channel two (slot *n* position 2) only supports 1920x1080p60.

Understanding the format of resolution

Resolution is shown in the form:

Width x Height (in pixels), p or i, Frame Rate (in Hz, or frames per second)

Where p means progressive scanning, and i means interlaced scanning.

For example, 1920x1080i60 is 1920 pixels wide, 1080 pixels high, interlaced, and has a frame rate of 60 Hz.

How do I know what resolution my media items are?

To find the resolution of a media stream, visit the source of the stream.

To find the resolution of a media item, select the item in the media browser. Information about that item is displayed on the right.



Frame rate

• For best results, add video clips and media streams with the same frame rate to a play queue. You can then choose a resolution with a frame rate that matches your media items.

	Video clip 1	Video clip 2	Video clip 3	
~	1920x1080p60	3840x2160p60	1600x1200p60	

If you have a mixture of frame rates, choose a resolution with a frame rate that is a factor of your frame rates. For example, you can add media items with frame rates of 30 Hz and 60 Hz, and then choose a resolution with a frame rate of 60 Hz. You can do this because you can divide 60 by 30.

	Video clip 1	Video clip 2	Video clip 3	Best frame rate	Reason
~	1920x1080p60	3840x2160p30	1600x1200p60	60	Both frame rates are a factor of 60. 60/60 = 1
					60/80 = 1 60/30 = 2
~	3840x2160p25	1920x1080p50	1280x720p50	50	Both frame rates are a factor of 50. 50/50 = 1 50/25 = 2
×	1280x720p23.98	1280x720p24	1920x1080p60	-	This play queue doesn't work because 24 is not a factor of 60, and you can't round 23.98 up to 24.

Note: don't round up frame rates. For example, don't treat 23.98 Hz as 24 Hz.

Resolution

- Choose a resolution no larger than your largest media item. Upscaling at this stage takes up unnecessary bandwidth.
- Don't choose a resolution that is much smaller than your media items. Downscaling at this stage can cause your media to appear blocky and low in quality when it is upscaled later in the process.
- If you have a play queue with a wide range of resolutions, you could choose a resolution in the middle of the range. This means that your largest items are downscaled.
- Consider the types of media you want to play. If you have, for example, two large 4K video clips and two
 smaller still images, you might prefer to put up with poorer quality still images in return for best quality
 video. In this case, choose your resolution based on the size of the video clips.

Scanning

 Avoid mixing media items with progressive scanning and media items with interlaced scanning in the same play queue.

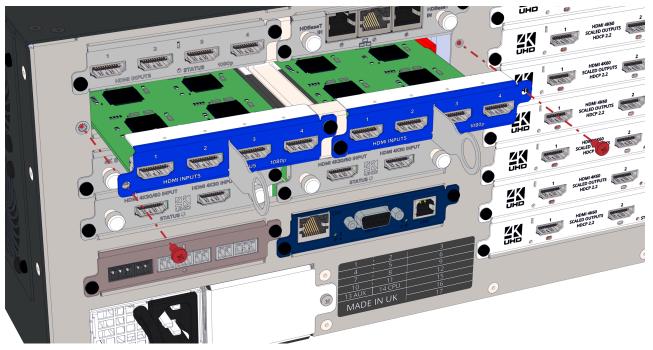
Replacing a module

Risk of damaging modules

Take care when you replace modules. If the components of modules touch other modules, or the metal chassis, they can be damaged. If you don't have experience, ask a qualified technician for help.



Removing an input module from your CORIOmaster2™

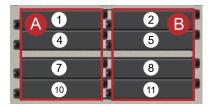


Input modules fit in pairs, joined with a bridge rail. For each pair, the outside screws hold the module in place in your CORIOmaster2, and the inner screws attach to the bridge rail.

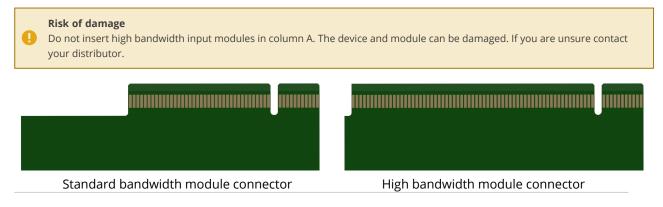
- 1. Unscrew the outside screws of the pair that you want to change.
- 2. Use the silver handles or module extraction tools to pull the pair of modules forward, out of your CORIOmaster2.
- 3. Unscrew the inner screw of the module you want to remove, and slide the module forward out of the bridge rail.

Inserting an input module into your CORIOmaster2

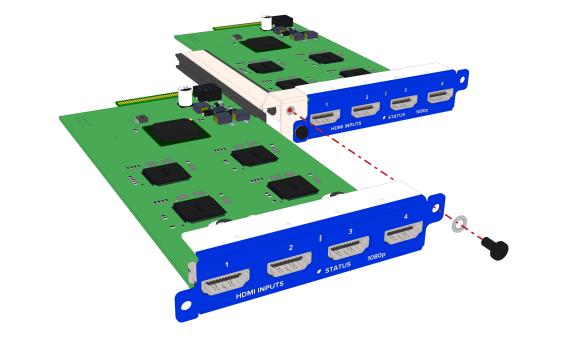
Rules for placing input modules



Standard bandwidth input modules can go in any position in column A and B, slots 1, 2, 4, 5, 7, 8, 10, and 11. High bandwidth input modules can only go in column B, slots 2, 5, 8, and 11.

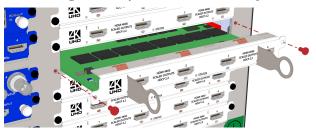


1. Slide the module into the bridge rail and screw it in place.



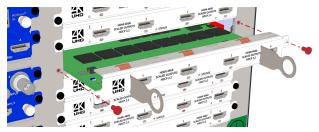
- 2. Insert the pair of modules into the guide rails of your CORIOmaster2 and push the modules firmly into the dock at the rear.
- 3. Screw the modules in place.

Removing an output module from your CORIOmaster2™



- 1. Unscrew the module that you want to replace.
- 2. Use the module extraction tools to pull the module forward, out of your CORIOmaster2.

Inserting an output module into your CORIOmaster2



- 1. Insert the module into the guide rails of your CORIOmaster2.
- 2. Push the module firmly into the dock at the rear of your CORIOmaster2.
- 3. Screw the module in place.

Adding and managing custom EDID files

You can upload an EDID file saved to your PC to your CORIOmaster2[™]. You can manage the EDID files saved to your CORIOmaster2 in CORIOgrapher[™].



Your uploaded EDID files can only be used with sources.

You might want to upload a saved EDID file if a source, for example, a PC, is using the preferred resolution from your CORIOmaster2 rather than the resolution you wanted for the source device. This can cause unexpected effects. You can create an EDID file for the resolution you selected for the source device, and upload it to your CORIOmaster2.

EDID files must:

- Be a binary EDID file
- Have a filename in 8.3 format
- Have a .edd extension
- Have a filename no longer than 8 ASCII characters

Risk of unexpected results

• CORIOgrapher does not check that a custom EDID file is valid or supported. Uploading an invalid or unsupported EDID file can cause source loss and unexpected results. Creating custom EDID files is an advanced task. If in doubt, contact a qualified AV professional.

Before you start

Before you add custom EDID files or remove saved EDID files, we recommend that you make a backup copy of your configuration.

Read more about backing up and restoring on page 48.

Adding a saved EDID file

- 1. In CORIOgrapher, select 🔅 Settings > EDID Manager.
- 2. Select Install new EDID.
- 3. Select Select EDID file and browse to an EDID file on your PC.
- 4. Select Start install.

Removing EDID files



If you delete an EDID file that is in use and then reboot your CORIOmaster2, your CORIOmaster2 says it is using the deleted EDID file but is actually using the default EDID file.
 Take care to not delete EDID files that are in use.

- 1. In CORIOgrapher, select 🔅 Settings > EDID Manager.
- 2. Find the EDID file you want to delete.
- 3. Select Remove.

Troubleshoot it

This section contains frequently asked questions and advice on troubleshooting problems with your CORIOmaster2[™]. If you can't find the help you need, contact your distributor, and if they can't help, contact tvONE[™] support. Contact details are at the back of this guide.

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Checking and updating the firmware of your CORIO device

You must be connected to your CORIOmaster2[™] to check and update firmware.

When you update the firmware, any unsaved configuration in CORIOgrapher is deleted. Make sure you save any configurations
 that you want to keep before you start the updating process. You can also save a backup file on your PC.
 Read about saving a backup file on page 48.

Before you start

To install the latest firmware for your device, you need CORIOdiscover V1.7 or above. CORIOdiscover software is available from help.tvone.com/r/docs/g/software.

Checking your firmware version and downloading new firmware

CORIOdiscover warns you if you try to install firmware that is older or the same as your existing firmware. If you don't want to check your existing firmware version, skip to step 2.

1. In CORIOgrapher > \triangle Home, find your current firmware version next to the name of your device.



- Check for newer firmware at help.tvone.com/r/docs/g/firmware.
 Select your device from the list and compare the firmware version to your own.
- If your firmware is out of date, download the zipped DAT file.
 You don't need to extract the DAT file.

Updating the firmware

1. In CORIOdiscover, select **2**.

Disc	overed CORIOmax devices
0	My CORIOmaster mini CORIOmaster mini IP 172.16.21.0, S/N 2218031016220, FW 407_04
0	
0	
6	nfigure Update Resolution Editor

- 2. Select your device from the list and select Update.
- To save your device settings, select Save Device Settings.
 When you save your settings, your device keeps all your saved configurations and canvases.
- 4. Enter your administrator login details.

Save Device Settings	V	
Admin Username	admin	
Admin Password	•••••	
Update File	wnloads\M401P26L_DAT.ZIP	Browse
	Start Update	Close

- 5. Browse to the zipped DAT file that you downloaded.
- 6. Select Start Update.

When the update is finished, you can log in to your device again.

I can't see my CORIOmaster2[™] in the Discovered Devices list

What's the problem?

When I tried to find my CORIOmaster2 in the Discovered Devices list on the Home window of CORIOgrapher[™], I couldn't see it. I tried refreshing the list and it still wasn't there.

Why does this happen?

There might be a lot of devices on your network and you're having trouble identifying yours.

Your device might be on a different network, there might be a problem with your network or firewall, or you might be in a high-security environment.

What to do

First try this

 Look on the front panel display for your device's IP address. You can use this IP address to find your device.

Then try this

If you've got a long list of devices with similar names, try these steps to find out which one is yours.

- 1. Write down the list or take a screenshot, and then turn off your device. After a few seconds, your device should show as offline.
- 2. If nothing shows as offline, close and open CORIOgrapher.
- Compare the list to your screenshot.
 If a device is missing, it is most likely your device.
- 4. Turn on your device, wait up to ten minutes, and see if that device appears again in the list. You can now select your device.

Then try this

If your device definitely isn't in the Discovered Devices list, first check your hardware.

If your device still isn't in the list, connect directly to your device with an RS-232 serial connection, find the IP address of your device, and use that IP address to log in.

API commands are not case-sensitive.

To check your hardware and firmware

- 1. Check that your device is turned on and the LED on the front panel is green.
- 2. Turn your device off and on again.
- 3. When the LED on the front panel is green, on the Home window of CORIOgrapher, select Refresh.
- 4. Check the Ethernet or serial connectors that connect your device to your computer.
- 5. Check that you are using the latest firmware. You might need to update your firmware. Read about checking and updating your firmware on page 118.

To find out the IP address of your device

- 1. Connect the RS-232 port on your device to the RS-232 port on your computer with an RS-232 cable.
- 2. Open a suitable terminal application, such as puTTY or HyperTerminal.
- 3. Set your COM port settings to the following:

Croad (baud)	115200
Speed (baud)	115200
Data bits	8
Stop bits	1
Parity	None
Flow control	None

- To log in to your device as an administrator, enter login (admin, adminpw).
 Admin and adminpw are the default administrator login details. If you've changed them, use your own login details.
- 5. To check that DHCP is enabled, enter System.Comms.Ethernet.DHCP and press Return. If the Enabled property is set to Off, then go to step 6.

If the Enabled property is set to On, then go to step 7.

- 6. Enter System.Comms.Ethernet and press Return.
- 7. Find the IP address of your device in the IP_Address property and make a note of it.
- 8. Enter logout () and press Return.

To log in to your device with an IP address

Log in to your device on the Home window of CORIOgrapher.

- 1. Select Connect to your device.
- 2. Enter the IP address that you got from the serial connection, and your administrator login details.

Authentication		
Host (IP or COM)	172.	Secure
User name	admin	
Password	•••••)
	Login	Cancel

The first time you log in, make sure Secure is clear.

If that doesn't work

There might be a problem with your network or firewall. Talk to your network administrator. You might need to give your device a specific IP address.

Read about changing the IP address of your device on page 53.

I can't log in to CORIOgrapher™

What's the problem?

When I try to log in, I get an error message.

Authentication		
Host (IP or COM)	164.160.21.20	Secure
User name	admin	
Password	*****	
An exception has occurred while connecting. (1006)		
	Login	Cancel

Why does this happen?

CORIOgrapher is unable to make a connection to your CORIOmaster2. There are multiple reasons why a connection can't be made.

What to do

First try this

If you are getting a 1002 error code, then there may have too many controllers communicating with your device, and the device has ran out of connection slots.

Check if you have multiple controllers that are using the REST API or Ethernet.

Disconnect the controllers , and reboot the device, then try to connect again.

Then try this

Check the rfc6455 specification website for help with WebSocket status codes.

https://datatracker.ietf.org/doc/html/rfc6455#section-7.4

If that doesn't work

I can't log in securely to CORIOgrapher™

What's the problem?

When I select Secure and try to log in, I get an error message.

Authentication		
Host (IP or COM)	164.160.21.20	Secure Secure
User name	admin	
Password	•••••	
An exception has		
	Login	Cancel

Why does this happen?

Your CPU module might not have generated a secure certificate.

What to do

First try this

- 1. Clear the Secure option and log in to CORIOgrapher.
- 2. Select 🔅 Settings > Networking.
- 1. From Networking, select Secure connection.

Settings			
General	Networking		
Networking	Secure connection 📝		
Time	Secure connection		
Network Clients	Configuration DHCP ·		
HTTPS Certificates	IP Address 172.		
Module Configuration	Subnet Mask 255		
Playlists	Default Gateway 172		

- 2. Select Save > Yes.
 - Your device restarts.
- 3. Select Secure and log in.

Authentication		
Host (IP or COM)	172.16.21.60	Secure
User name	admin	j
Password	•••••	
	Login	Cancel

If that doesn't work

What do the error codes on the front panel mean?

Your CORIOmaster2[™] has a front panel display that shows information including error codes to help you work out if something needs your attention, for example the device fans have failed.

You can get the errors reported from API events, and using the System. Alerts API command after logging in.

Q Your devi	ice will only show the last messages.		
If you can't see the front panel display, check the System. Alerts API command for the error code.			
Code	Description		
Critical PF Backplane power failure, and the device will boot with a minimal image configuration			
Checked during boot up.			
	There is no video output or front panel display.		
Critical BF Backplane chip failed to program, and the device will boot with a minimal image configuration.			
	Checked during boot up.		
	There is no video output or front panel display.		
	Reasons: Unable to reset the EEPROM, corrupted blackplane file, memory test failed, or faulty backplane chip.		
	You can visually check the programming was successful by looking through the top fans next to the input modules for a green LED.		
	You will need the boot log using the serial connection to correctly diagnose this fault.		
Error FF	-F One or two chassis inlet or exhaust fans have failed or are spinning too slow.		
	Continuously monitored.		
	Revolutions per minute (RPM) can be viewed using the System.Temperature_Control API.		
	Check fan power connectors.		
Critical FF Three or more chassis inlet or exhaust fans, or the backplane fan have failed or are spi too slow, and the device will reboot with a minimal image configuration.			
	Continuously monitored.		
	Revolutions per minute (RPM) can be viewed using the System.Temperature_Control API		
	Check the fan power connectors.		
Critical	File system failed to be read, and the device will boot with a minimal image configuration.		
FSRead	There is no video output.		
Critical Communication with a module failed, and the device will boot with a minimal image configuration.			
	There is no video output.		
	vice here doesn't work, first contact your distributor. If your distributor can't help, contact tvONE support at @tvone.com , tech.europe@tvone.com or tech.asia@tvone.com.		

Read about customizing the front panel on page 32.

Why is my window pixelated, or looks blurry when I select a window source?

You might be seeing a pixelated window because the required HDCP version of the input is not supported by the display the window is being shown on.

Read about HDCP on page 32.

My Streaming media and 4K playback input module keeps overheating

What's the problem?

I keep seeing an error message that tells me my Streaming media and 4K playback input module is too hot, or has overheated. The performance of the module is reduced. I've tried restarting my CORIOmaster2[™].

Why does this happen?

If the environment around the Streaming media and 4K playback input module is too hot, the module runs above specification, or the fans can't do their job properly, the module can overheat. When the module becomes hot and there is a risk of overheating, the performance of the module is reduced to lower the amount of data processed.

What to do

First try this

- 1. Switch off your CORIOmaster2.
- 2. Allow your CORIOmaster2 to cool down for at least 20 minutes.
- 3. Restart your CORIOmaster2.

Then try this

- 1. Place your hand near each fan outlet in turn and check that air is flowing out of your CORIOmaster2.
- 2. Check the environment around your CORIOmaster2.
 - Is there anything covering the fan outlets?
 - Is the space large enough?
 - Is there enough ventilation or cooling? For best results, make sure the air around your CORIOmaster2 is a maximum of 20 °C.
 - Is there an air gap all around your CORIOmaster2?
- 3. If there are any issues with the environment around your CORIOmaster2, switch off your CORIOmaster2 and allow it to cool down while you fix the issues.

If that doesn't work

Is your Streaming media and 4K playback input module playing media items or streams that are very high resolution and/or high bitrate? Try reducing the resolution or bitrate as much as you can without losing too much quality.

I can't hear any audio

What's the problem?

I am trying to play audio but I can't hear it, or the sound is poor.

Why does this happen?

General problems with audio:

- Audio is disabled for the input or output.
- The audio source is muted.
- The audio output is muted.
- The canvas or output is cut to black. Cut to black also mutes audio.
- The input audio level is turned down low, or the output volume is turned down low.
- The audio source was changed by a preset.
- The source device or output device might be muted.
- There might be a loose connection, mislabeled cables, or problem with your audio device.
- The audio source is not compatible with your CORIOmaster2.
 - Your CORIOmaster2 only plays embedded audio in uncompressed PCM format.
 - Your CORIOmaster2 only plays audio with a frequency of 48 kHz.

If you're trying to play audio with the S/PDIF and analog audio module:

• You might have your audio device connected to the wrong output.

Each output is associated with a single canvas. Output 1 is associated with canvas 1, and so on. Read more about the S/PDIF and analog audio module on page 18.

If you're trying to play audio with the Streaming media and 4K playback input module:

- You might be trying to listen to a stream with low latency. CORIOmaster2 automatically mutes streams with low latency.
- The audio from a media item might not be compatible with your Streaming media and 4K playback input module.

What to do

General problems with audio127	
Audio from the Streaming media and 4K playback input module131	
If that doesn't work	

General problems with audio

- Check if audio is disabled for sources or outputs, page 127
- Check if sources are muted, page 128
- Check if input audio level or volume are too low, page 128
- Check if canvases or displays are cut to black and muted, page 128
- Check if displays or windows are muted, page 129
- Check your presets, page 130
- Check the format of your media items, page 130.

Check if audio is disabled for sources or outputs

- 1. Select 🐯 Settings > Slot Status.
- 2. Check that Audio Enabled is selected for each source and output that you want to use.

Input Slots			
Slot	Name	Audio Enabled	
Slot1.In1	stream1		
Slot1.In2	stream2		
Slot2.In1	camera1		
Output Slots			
Slot	Name	Audio Enabled	
Slot3.Out1	Screen1		
Slot3.Out2	Screen2	V	
Slot4.Out1	SPDIFOut	V	

Check if sources are muted

1. From 🟵 Editor, open the list of audio sources.

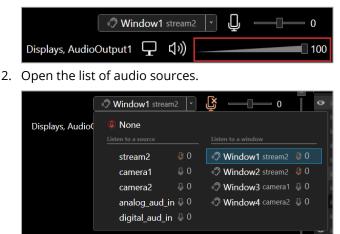


2. If the source you want to hear is muted, select the source and then select \mathcal{G} .

ゆ) Audio	
hdmi3_2	· · · · · · · ·
Displays 🖵 ��)	100

Check if input audio level or volume are too low

1. From ⁽¹⁾ Editor, check the output volume.



3. Select each source in turn and check the input audio level.



Check if canvases or displays are cut to black and muted

- 1. Select 🖃 Dashboard.
- 2. If a canvas is cut to black and muted, restore it.
 - To cut a display to black and mute it, select $oldsymbol{P}$
 - To restore a display, select \square
- 3. Select 💬 Editor > Displays & Windows.

4. If a display is cut to black and muted, restore it.

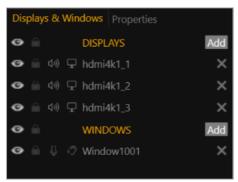


- To restore a display, select 🔽.

• Only administrators and power users can restore individual displays. If a display is black and you can't hear audio, ask an administrator to check if it is cut to black and muted.

Check if displays or windows are muted

- 1. Select 🟵 Editor > Displays & Windows.
- 2. If the display or window is muted, unmute it.

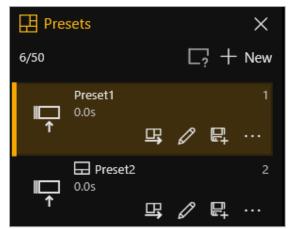


- To mute audio, select 🕬 or 🖟.
- To unmute audio, select **1**× or

Check your presets



2. From 🖽 Presets, select a preset.



- 3. On the canvas, check which windows and sources appear in the preset.
- 4. Repeat for all presets.

Read more about best practice for using presets on page 65.

Check the format of your media items

- Your CORIOmaster2 only supports two-channel audio, in uncompressed PCM format, at 48 kHz.
- Your CORIOmaster2 does not support surround sound.
- The Streaming media and 4K playback input module only supports .mp3 and .aac formats.
- If you have a media player connected to your S/PDIF and analog audio module, check that it can provide audio in uncompressed PCM format.
- If your media items are not supported, consider converting them.

Then try this

- 1. Restart your CORIOmaster2.
- 2. Check all hardware connections.
- 3. Check that your audio device is working. Try plugging in another source.
- Make sure you are running the latest firmware and software.
 Download the latest version of CORIOgrapher from help.tvone.com/r/docs/g/software.
 Read about updating your firmware on page 118.

Audio from the Streaming media and 4K playback input module

- To access the media player, page 131
- Check the format of your media items, page 131
- Check if your stream is playing with low latency, page 131

To access the media player

1. In ⁽²⁾ Editor, double-click the window you wish to play streaming media, and select (Media Player) Manage.

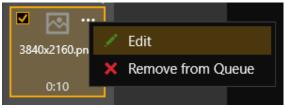
•	Common		
	Alias	Window1	
	Input Slot	s1i1	•
	Status	ОК	
	HDCP Status	None	
	Media Player	Manage	
	Module Status	READY	
	Health Status		

Check the format of your media items

- The Streaming media and 4K playback input module only supports .mp3 and .aac formats, at 48 kHz.
- If your media items are not supported, consider converting them.

Check if your stream is playing with low latency

- 1. In the play queue, select the stream.
- 2. Select ••• > Edit.



3. Check if Low latency is selected.

Properties [My_Encoder100]		
URL: rtsp://164.254.11.104:8554/		
Duration:	00:00: <mark>00</mark> 🗘 (hh:	mm:ss)
Retry: 星	l (for duration of media)
RTSP Multicast: 모	1	
Low latency: 🗹	1	
	Update Item	Cancel

If you want to listen to audio from your stream, clear Low latency.

Then try this

- 1. Restart your CORIOmaster2.
- 2. Check all hardware connections.
- 3. Check that your audio device is working. Try plugging in another source.
- Make sure you are running the latest firmware and software.
 Download the latest version of CORIOgrapher from help.tvone.com/r/docs/g/software.
 Read about updating your firmware on page 118.

If that doesn't work

I can't update the firmware of my Streaming media and 4K playback input module

What's the problem?

- 1. In CORIOdiscover, I have an error message that tells me one or more of my Streaming media and 4K playback input modules failed to update.
- 2. In CORIOgrapher[™] I have an error message that tells me the firmware of my Streaming media and 4K playback input module failed to update. The module status is UPDATEFAILED.

Displays & Windo	WS Properties	
MEDIA_4K IN		
✓ Common		
Alias	Stream1	
Input Slot		
Input Name	Slot7.In1	
Input Type	MEDIA_4K IN	
Status	UPDATEFAILED	
0.10		

Why does this happen?

- There was an error when you updated the firmware of your CORIOmaster2[™].
- The firmware download might be corrupted.
- There is a problem with a module.

What to do

First try this

- 1. Restart your CORIOmaster2.
- 2. In CORIOgrapher, select [™] Settings > Module Configuration.
- 3. For each Streaming media and 4K playback input module, select ••• > Configure and check the status.

Then try this

- Download the firmware update again. Make sure you download the correct version.
- 2. Repeat the firmware update.

Read more about updating your firmware on page 118.

If that doesn't work

General troubleshooting checklist

If specific troubleshooting advice isn't helping, or your product has stopped working, go through the points below. If your product still doesn't work, you might need to return it for repair.

Read about returning your product on page 134.

- 1. Make sure your product is set up correctly, as shown in this guide.
- 2. Check that your cables and equipment are all connected firmly.
- 3. Check that your product is connected to an electrical outlet that is switched on. Can you see LED lights on the front of your product?
- 4. Test your sources by connecting them directly to a display.
- 5. Test your display by connecting it directly to a source.
- 6. Test each cable.
- Try restoring your product to factory default settings. Note: during factory reset your custom settings are deleted.
- 8. Try updating your firmware.

Note: during a firmware update your custom settings are deleted.

Returning a product for repair

You can request to return your product to tvONE[™] for repair. When you contact tvONE support, have the following information ready.

- Product type
- Serial number of the faulty unit (this is on the underside of the unit)
- Full details of the issue
- Invoice number (if available)

Contact tvONE support for your area.

- Customers in North, Central, and South America (NCSA), email tech.usa@tvone.com.
- Customers in Europe, the Middle East, and Africa (EMEA), email tech.europe@tvone.com.
- Customers in Asia, email tech.asia@tvone.com.

EMEA and Asia

Customers in EMEA and Asia receive an RMA Request form from tvONE support. Complete the form and return it to tvONE support for your area.

All customers

tvONE support decides if your product needs to return for repair, and, if needed, provide a return authorization number.

Send your product to tvONE by insured carrier or registered mail. Write your return authorization number on the outside of the packaging, and on any documents you send with your product.

You must arrange and pay for shipping and insurance. Products in transit are your responsibility. tvONE does not accept responsibility for products lost in transit.

Do not return a product for warranty repair without a return authorization number. tvONE will not repair your product.

What are the minimum requirements for running CORIOgrapher?

The minimum requirements for running CORIOgrapher are:

- Works with PCs running Windows® 10 and 11
- Does not work with touch-screen-only devices, including tablets or phones

- Works with Microsoft Surface Pros and similar touch screen devices
 Full support for touch screen devices is under development
- Installs Windows .NET 4.6, if you don't have it
- Needs 600 MB of disk space during installation
- Is approximately 60 MB in size once installed

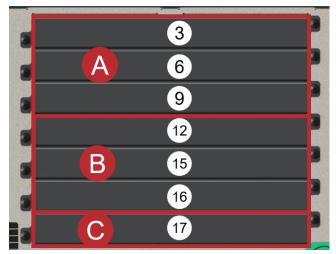
To use the preview feature, your PC must have Windows Media Player installed, and it must have been launched at least once. Preview performance depends on the specifications of your PC and number of windows in your installation.

What's the password for my CORIOmaster2™?

The default administrator username and password for CORIOgrapher[™] are admin and adminpw.

Do I need output bonding modules?

There are three groups of slots for output modules:

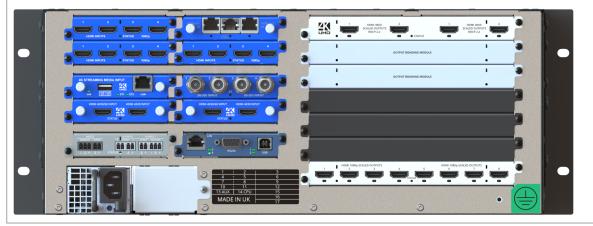


Use output bonding modules to fill empty output slots in a group. You don't need to use output bonding modules in groups that contain no output modules.

Place output modules in the first slot of each group first, starting with group C, slot 17. Fill empty slots with output bonding modules.

Show me an example

A CORIOmaster2 has two output modules. The first output module goes into group C, slot 17. The second goes into group A, slot 3. Bonding modules go into group A, slots 6 and 9. Group B contains no output modules, so it doesn't need any bonding modules.



Can I use HDMI extenders with CORIOmaster2[™] output modules?

Yes. You can use HDMI extenders that draw up to 500 mA directly with HDMI output modules. If you want to use an HDMI extender that draws more than 500 mA, use an external power supply.

See our range of HDMI extenders at help.tvone.com/r/docs/g/signal-extension.

How large is the internal storage on a Streaming media and 4K playback input module?

128 GB.

How do I find the MAC address of my Streaming media and 4K playback input module?

You can find the MAC address in Networking. Select 🔅 Settings > Module Configuration, find the module, and select ••• > Configure.

How fast is my connection to the Streaming media and 4K playback input module?

You can find the connection speed in Networking. Select 🐯 Settings > Module Configuration, find the module, and select ••• > Configure.

Which media formats can I add to a play queue?

You can add media streams, video clips, and still images to a play queue. For the full list of supported formats, see the specification sheet.

Specification sheets can be found on our website tvone.com.

Can I save my play queue?

If you add media items or streams to a play queue and select ⁽²⁾ Editor > □ Set device startup, when you restart your CORIOmaster2[™], the media items and streams remain in the play queue.

You can save your play queue as a playlist.

Read more about playlists on page 102.

You can save all your settings, including your play queue, to a backup file on your CORIOmaster2. If you want to load the same play queue at a later date, you can restore your settings from the backup file. Note: you will lose any work that you have done since creating the backup file.

How do I mute audio?

If it's an emergency, the fastest way to mute everything is to use the emergency button for mute and cut to black.

In CORIOgrapher, select 🗐 Dashboard.

To cut to black and mute all displays and outputs, select 😨.



₽, To restore all displays and outputs, select

If it's not an emergency, there are several other ways to mute audio. You can:

Mute a source.

Read more on page 85.

- Mute a display.
- Read more on page 87.
- Disable a source or display. Read more on page 80.
- Cut a display to black, which also mutes the audio. Read more on page 87.

More

In this section

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What's new in CORIOgrapher[™] V3.5 for CORIOmaster2[™]

CORIOgrapher V3.5

- Support for CORIOmaster2[™]
- New look interface with dedicated panels for presets and assets
- New system and canvas level settings
- New preset editor, so you can select which windows are included in the preset.

For the full list of new features and things we've fixed, see the release notes.

Release notes are available at help.tvone.com/r/docs/g/software.

Regulatory compliance for CORIOmaster2[™] and all modules

This product has been tested for compliance with appropriate FCC and CE rules and regulations. The power adapter or supply has been tested for compliance with appropriate UL, CUL, CE, PSE, GS, rules, regulations and/or guidelines. This product and its power adapter or supply is RoHS compliant.

WEEE directive

The wheelie bin symbol on this product or its packaging indicates that this product shall not be treated as

household waste. In line with EU Directive 2012/19/EU for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste. Dispose of this product by returning it to the point of sale, or to your local municipal collection point for recycling. Doing this helps conserve our environment.

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