

# CORIOmaster<sup>®</sup>

All-in-one multi-window video processor

stand out from  
the crowd



Captivate your audience. Create the ultimate 4K/60 video experience for your small, medium and large video walls and LED installations without compromise.

**LED Ceiling**  
Fen Court, London

# CORIOmaster. Flexible, Simple, Secure.

We've been engineering the very best video scaling technology for over 30 years. Delivering totally flexible, high quality and low latency performance is part of our DNA. We've continually developed our patented, CORIO® scaling engine to keep you ahead of all your AV challenges. By developing our own architecture, it is simple to upgrade any device to the latest format types and connections as they become available.



Add visual appeal with 360° rotation for video windows and displays.



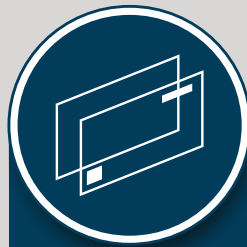
Intuitive and versatile design software for powerful and creative control.



Keep your information safe with HTTPS SSL connectivity and AES IP decodes.



Extremely low latency of typically 1 frame for video and better than 300ms for IP in low latency mode.



Create visual interest and add essential information with real-time, keyed overlays.



Effortless multi-user control using our app or real-time RESTful API.



Enjoy endless creativity and eye-catching visuals with multi-screen synchronized media playback.



You can manage up to four independent video wall canvases from a single unit.



Streamline your workflows and monitor system health & security using our advanced feedback logic.

Lexus Lounge,  
Bridgestone Area,  
USA



Dallas Cowboys, USA



# ENDLESS POSSIBILITIES

## Three Chassis



Powerful stand-alone 4RU video wall processor for expansive 1080p installations with up to 56 inputs, which can also display up to five 4K video windows, and up to 56 outputs in 4RU.



Compact form 1RU processor for medium 1080p solutions with up to 18 inputs, and the ability to add two 4K video windows, and up to 20 outputs.



Ultra compact, half-width 1RU processor with integrated front button panel for up to 8 inputs or up to 8 outputs in 1080p environments with optional 4K connectivity.

## Fifteen Modules



### Dual 4K HDMI Input

- Allows resolutions up to 4096 x 2160/60p



### Dual 4K HDBaseT Input

- Supports resolutions up to 4096 x 2160/60p
- 500ft reach with HD-One DX500



### Dual 3G-SDI Broadcast Input

- Supports resolutions up to 1920 x 1080/60p



### 4K HDMI Scaled Output

- Supports all resolutions up to 3840 x 2160/30p



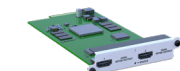
### Dual DVI-Scaled Output

- Supports resolutions up to 1920 x 1200/60



### Dual 3G-SDI Broadcast Input

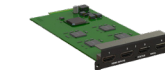
- Supports resolutions up to 1920x1080/60p



### Dual Keying Scaled Output

- Luma keying up to 1920x1080/60p
- Compatible with all input modules
- No additional latency added with keying

NEW



### Quad HDMI Input

- Supports resolutions up to 1920x1080/60p



### Dual 4K Streaming Media Input

- Dual, low latency, H.264 and H.265 network streaming
- Dual 4K playback of clips and stills



### Dual DVI Universal Input

- Supports resolutions up to 1920 x 1200/60p



### Quad HD-SDI Broadcast Input

- Supports resolutions up to 1920 x 1080/30p



### Dual 4K Scaled Output

- Dual output support for all resolutions up to 3840 x 2160/30p. Single output up to 3840 x 2160/60p



### Quad HDMI Scaled Output

- Supports resolutions up to 1920 x 1080/60p
- Compatible with CORIOmaster, C3-540



### Dual HDBaseT Scaled Output

- Supports resolutions up to 1920x1200/60p
- 328ft reach with Magenta Receiver



### S/PDIF and Analog Audio

- Embed and de-embed audio from S/PDIF or analog
- Cross convert digital and analog audio

## Support legacy equipment with adapters



HDMI



CV



Analog PC



YC (S-Video)



Analog RGBHV



YPbPr/YUV

## Custom Control



CORIOgrapher



CORIOmaster® App



Third Party Control



Wall Mount Control Panel

# The CORIOmaster difference

Create the ultimate video experience with CORIOmaster, the world's most advanced & flexible family of video processors, allowing any signal in to any signal out in glorious, eye-popping 4K quality.



1. Manage up to four video walls from a single chassis.
2. Mix low latency AV, IP & Broadcast sources in a single chassis.
3. Deploy expansive video belts with synchronized media clip playback

4. Get creative and improve efficiencies with source keying
5. Stay private, secure and safe with AES encrypted IP stream delivery
6. Doing LED Right! Embedded CORIOgrapher custom resolution manager

You can trust your reputation with CORIOmaster. It's proven reliability is delivered through a mix of high-quality design, modularity and hand built manufacturing with a 100% test regime. In our stringent, in house, tests we see over 50,000 hours MTBF in even the harshest environmental conditions. This is why we are chosen by military, healthcare and higher education users globally.

# LATEST FEATURES

## Increased HD Connectivity

4x

The new HDMI quad input and output modules allow expansive set up across all three CORIOmaster chassis, allowing users to create enormous video walls, projector edge blends, and LED installations or to deploy switcher applications. For the first time, it's possible to create huge video walls with the CORIOmaster mini, with 3x3, 4x4, and 5x4 walls being easily achievable. CORIOmaster micro now has up to eight inputs or eight outputs in a half width 1RU chassis.



## 4K Output Options



Use our new Dual 4K Scaled Output module to create an even smoother, 4K/60 video experience with up to 14 displays simultaneously.

For even more efficient 4K/60 workflows, up to 28 displays, use our output cloning feature.

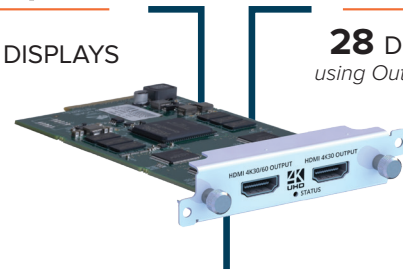
If you choose to work in 4K30, enjoy double the available outputs for truly expansive 4K installs. Up to 28 4K30 outputs possible.

**4K/60**

14 DISPLAYS

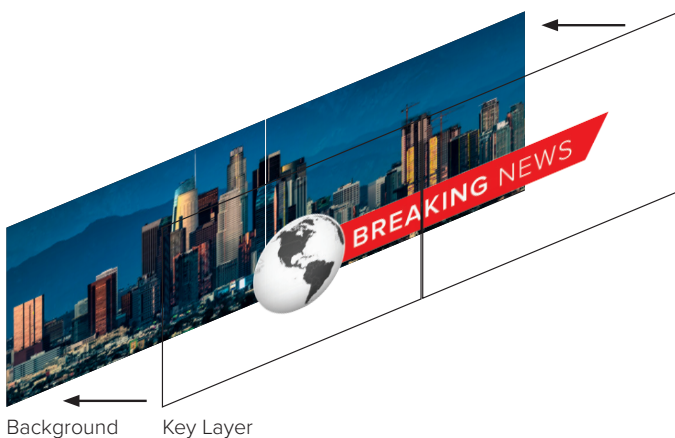
**4K/60**

28 DISPLAYS  
*using Output Cloning*



**4K/30**

28 DISPLAYS



Background

Key Layer



## Keying

Improve efficiency, overlay real-time data feeds, and boost safety with keyed icons, data and other information over your source or across entire video walls. Prevent your video wall from becoming invisible and enhance the viewer experience.

# Applications

KTVU FOX 2, USA



## Broadcast

1. Manage up to four independent video walls from a single chassis
2. Low latency performance guaranteed
3. Seamlessly combine broadcast, AV and IP feeds with a built-in media player
4. Deploy expansive video belts with synchronized media clip playback
5. Secure, encrypted control with simultaneous multi-user access and monitoring



## Command & Control

1. Multi-zone capability for control, video and audio
2. Secure control with simultaneous multi-user access
3. Wide range of video formats supported for mission critical operations
4. Protect your streams with AES encryption
5. Mix low latency AV, IP and broadcast in a single chassis



CORIOmaster is a quantum leap from the technology we used before. Not only is it easy to use, but it is a high-quality broadcast build unlike software and PC based solutions, leaving endless flexibility of studio configuration to our imagination. The ability to control canvases independently with presets allows for much easier simultaneous use of both studios than ever before.

Laszlo Pandur  
Broadcast IT Specialist of AMC International Networks

# Healthcare

1. Manage up to four video walls from a single chassis
2. Clone any output - increase window count while saving bandwidth
3. Use keying for real-time data overlays or medical route guidance
4. Secure control with simultaneous multi-user access
5. Stay private, secure and safe with AES encrypted IP stream delivery



New London Architecture, UK



## Corporate

1. Secure control with simultaneous multi-user access
2. Experience complete design freedom to create a 'one of a kind' video wall.
3. Make it sing with embedded audio or external break out
4. Mix low latency AV, IP and broadcast sources in a single chassis
5. Manage four video walls from a single chassis

## Public Venues

1. Secure control with simultaneous multi-user access
2. Make it sing with embedded audio or external break out
3. Remote monitoring of sources and system set-up
4. Large, creative edge-blends with mixed orientation and up to 56 outputs
5. Doing LED Right! New embedded CORIOgrapher custom resolution manager
6. Save power with eco mode display switch off capability.







Warwick University, UK

# Education

1. Manage four video walls from a single chassis
2. Cloning feature for repeat displays
3. Secure control with simultaneous multi-user access
4. Mix low latency AV, IP and broadcast sources in a single chassis
5. Grab your audience with eye-catching transitions



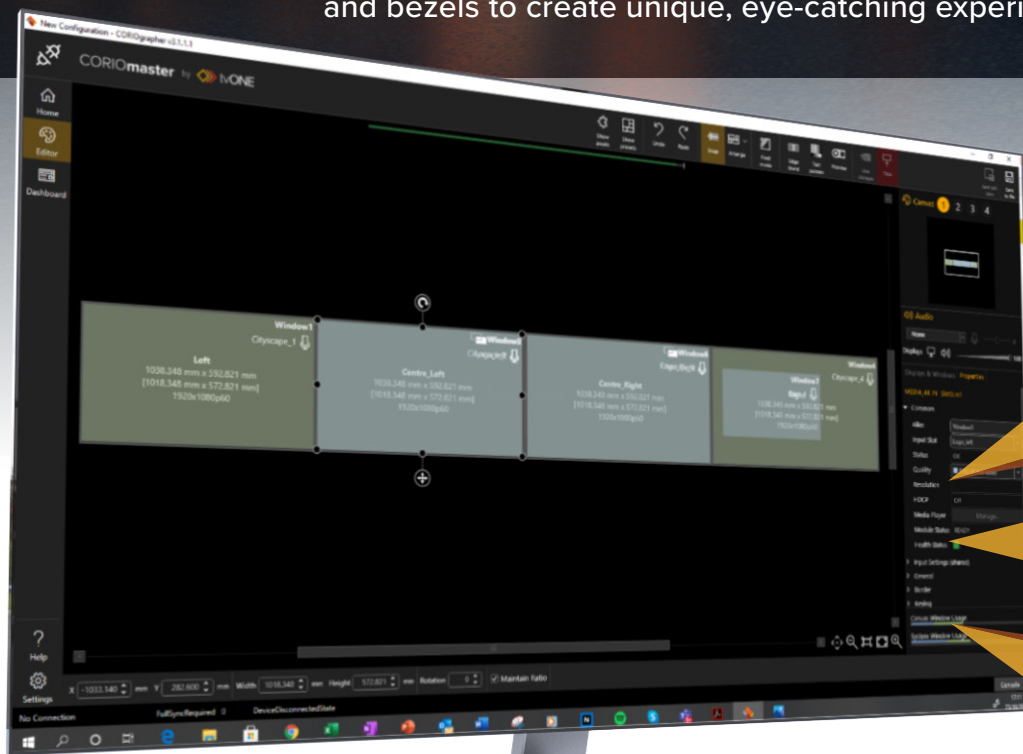
“The video wall in the entrance area is our showcase for what is happening in the University. CORIOmaster has given us unique flexibility – we can use each screen as an individual display, or combine all four into one massive, and hugely impressive, 16K resolution show screen.”

Ian Mason,  
Warwick University, UK



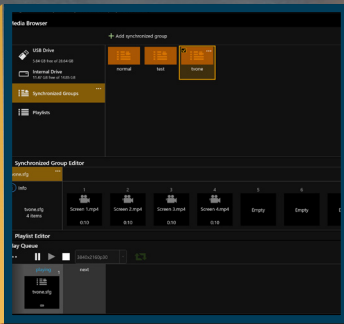
# CORIOgrapher

Let your creativity go wild! Rotate sources and displays with complete 360° rotation, mix and match display types, create overlaps or edge-blends and automatically correct for display size and bezels to create unique, eye-catching experiences.



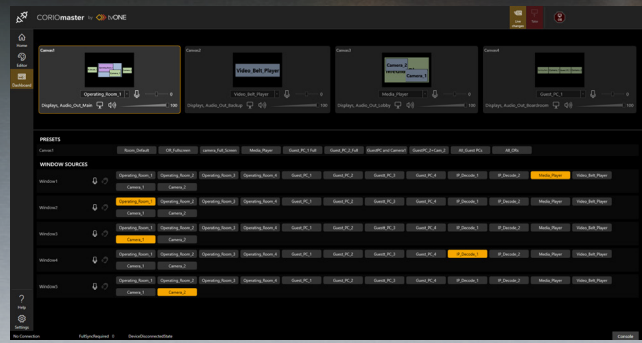
## Wall Editor

Our UI makes it easy to create layouts, map sources and animate transitions with incredible ease. With CORIOgrapher, build the wall you want, not just the one you can.



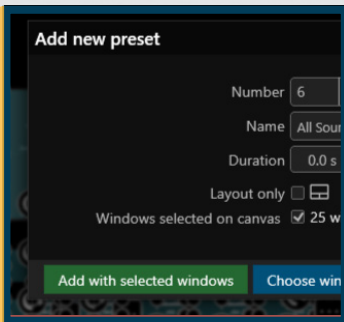
## Video Sync

Play up to 8 clips per media module in perfect synchronization for expansive video experiences.



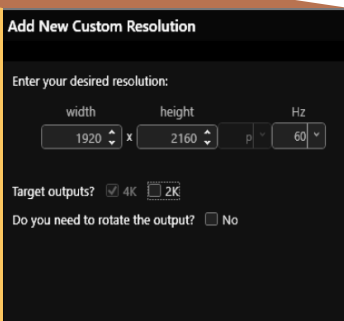
## Dashboard

View all of your presets and sources on up to four canvasses for simple and effective control.



## Preset Management

Layout only, selected windows and preset numbering for easier and quicker automation set up.



## Custom Resolution Manager

Easily create and verify custom output resolutions using basic display information.

## Third Party Custom Control

Create custom control environments for your CORIOmaster using our RESTful API or choose to take control using our app, plug-ins or button control panel.

# Accessorize your CORIOmaster

## Companion Products

<b>IP Encoding</b>	H.264 encoding Magenta encoder 100					
<b>HDMI Extension</b>	HDMI 2.0 Fiber Magenta MG-FB-61x		HDMI 2.0 Active Optical MG-AOC-66x series		HDMI over HDBaseT HD-One series	
<b>Pre-input Multi Windowing</b>	IP, HDMI, HDBaseT & 3G-SDI CORIOview series		3G-SDI or HDMI/ DVI/VGA C2-6x04 series		HDMI or DisplayPort 1T-MV-8474	
<b>HDMI Matrix Solutions</b>	Universal matrix CORIOmatrix		HDMI 2.0 4x4 MX-6544		HDMI 2.0 8x8 MX-6588	
<b>HDMI Distribution</b>	Splitter MG-DA-612		4 Port DA MG-DA-614		8 Port DA MG-DA-618	
<b>Accessory Rack Mounting</b>	Universal racking, powering & cooling ONErack		Single Unit Rack Mount		Double Unit Rack Mount	
<b>Hippotizer™ Media Server</b>	Tierra+ <sup>MK2</sup> 4x DP 1.2 or HDMI 2.0 Outputs 32 x 4K Clip playback		Mayon+ <sup>MK2</sup> 2x HDMI 2.0 Outputs 12x 4K Clip Playback		Nevis+ 1x DP 1.2 output 2x 4K Clip Playback	

Need even more processing power?



For even more performance, the CORIOmaster2 is optimized for 4K60 environments and is 8K ready. Display up to 40 4K video sources with no visible latency and up to 56 outputs in 4RU.



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Broc-CORIOmaster-US-V4