

# CORIOmaster<sup>2</sup>

Industry leading **4K/8K** performance



The all-in-one video processor with more pixels than you'll ever need.

 tvONE<sup>®</sup>

# The Video Processor Redefined

Truly massive video design canvasses allow for unbridled creativity with more 4K60 windows than you ever imagined possible.



▪ **Huge 12 Gigapixel Design Canvas**

Seamlessly manage multiple walls from a single chassis.

▪ **Up to 128 video windows**

Up to 64 windows per canvas with 128 windows for the total system.

▪ **Go large and creative**

360° rotation and up to 56 displays with high bandwidth outputs.

▪ **Synchronized playback**

Create eye-catching visuals with multi-screen media playback.

▪ **Multi-user control options**

Choose from CORIOgrapher software, 3<sup>rd</sup> party control or button panel.

▪ **Easy 8K source management**

Quad 4K workflows for source input and display output.

CORIOmaster2

CORIOmaster2 continues to evolve with new features and more powerful control to meet and exceed the requirements for today's installations for LED, edge-blend projection and display walls. This comes as standard for new users, but existing installations can also benefit with a control module upgrade to enjoy 8K workflows, more tools for setting up LED walls and more.

8K WINDOWS

DISSOLVE & FADE TRANSITIONS

LED TOOLS

## Powerful



### Unparalleled Performance

Simultaneously display up to 40 windows in 4K60 with normally one frame of latency.



### Smart Design

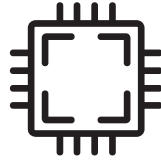
Future-proofed design to grow with you and featuring a striking front panel that will stand out in any rack!



### Extreme Reliability

5-year warranty and optional dual redundant PSU's - it's easy to see why we are trusted by professionals.

## Creative



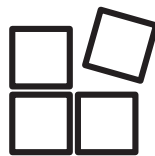
### CORIO Video Processing

Proprietary FPGA technology optimized for 8K Windows and 4K60 outputs.



### Design Flexibility

Create mosaics, square walls, expansive edge blends and power your LED walls with pixel-perfect performance.



### Modular Platform

Flexible architecture accepts digital, IP, broadcast and legacy AV inputs to exceed requirements.

## Simple



### Simple to Configure

Intuitive and versatile, software - perfect for powerful creative design and control.



### Independent Canvases

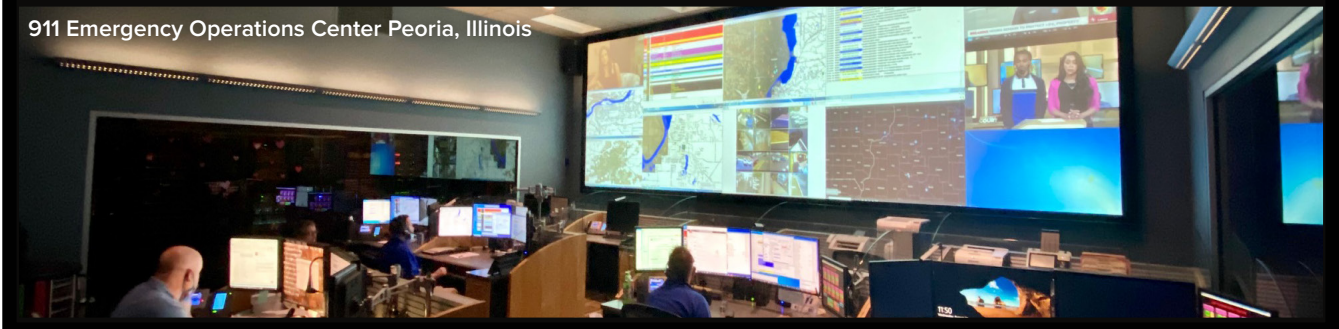
12 Gigapixels of design canvas allows three independent working areas for multiple walls.

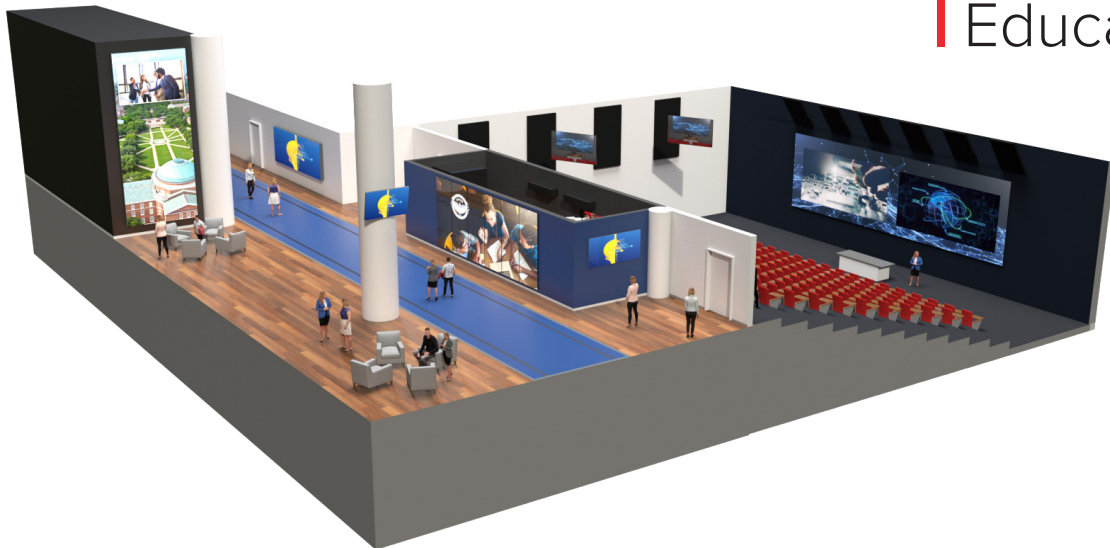


### Secure Comms

Keep your information safe with HTTPS SSL connectivity and AES IP decodes. Also experience RESTful multi-user control with remote monitoring.

911 Emergency Operations Center Peoria, Illinois





- **Assured communication**  
HTTPS & RESTful API control using software, button panels or 3rd party solutions.
- **Flexible display choice**  
Deploy LED, edge-blended projectors or display panels. Control multiple walls from a single system.
- **Low cost of ownership**  
Low power consumption when compared to competitor systems that are based on PC architecture.
- **IP Stream connectivity**  
Low latency H.264 and H.265 IP with mixed feed playlist carousels.
- **Ultra-reliable**  
tvONE exclusive design and manufacturing with a 5-year warranty.
- **Demand lip sync perfection**  
Best-in-class latency for video and IP sources.

## Corporate



- **See every detail**  
Seamless 8K workflows when every detail matters with quad 4K60 windowing.
- **Engage the team**  
Eye-catching transitions and animations or seamless video switching.
- **Mix and match**  
Source choices include: IP decoding, digital AV, broadcast, legacy AV or a media player for 4K video and stills.
- **Make it sing**  
Embedded audio from source to display or choose external breakout for hook up to external systems.
- **Take control**  
Multi-user control options include software, 3rd party controllers or our button panel.
- **CORIO inside**  
The best up, down and cross conversion in the industry!

## Ease of **Control**

Control options include CORIOgrapher software, a Crestron plug-in or our control button panel.

Also, create custom control environments using our real-time RESTful API.

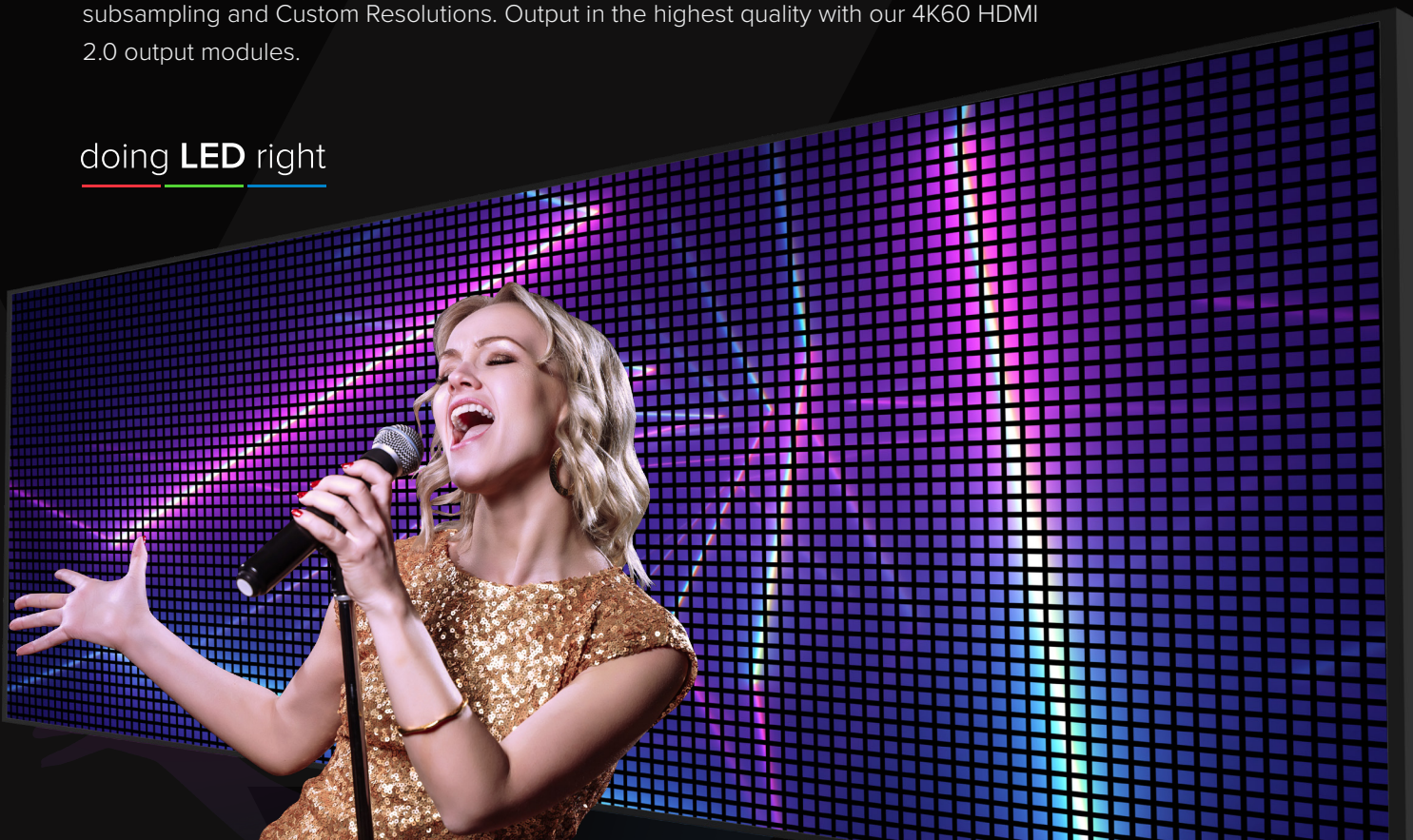


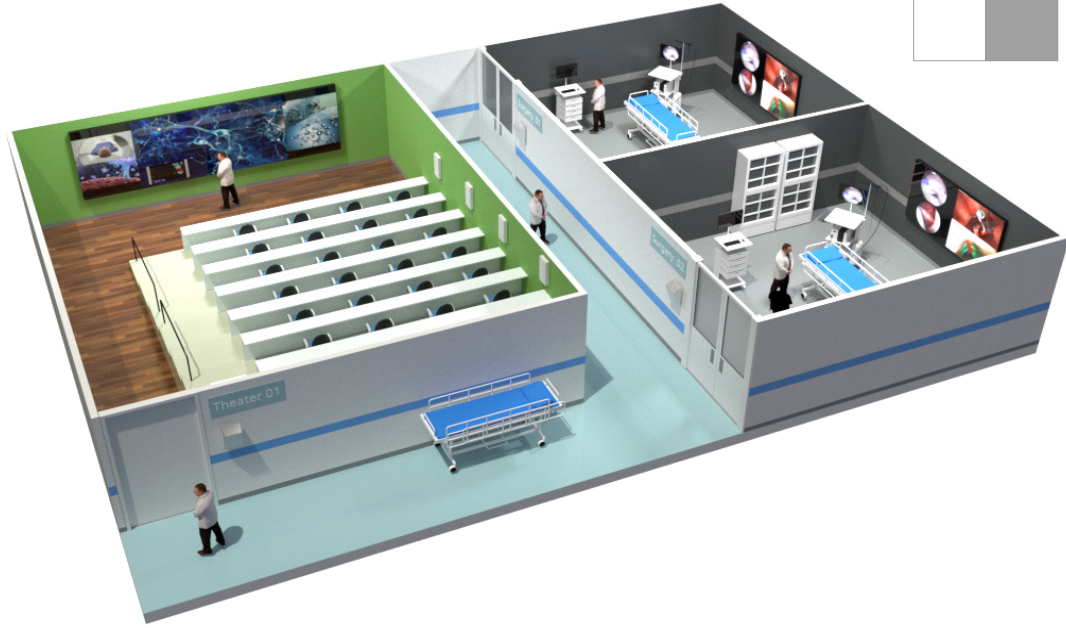
© Council of the EU

## LED Output **Performance**

CORIOmaster2 is optimized for LED applications with specific LED Tools for set up, video chroma subsampling and Custom Resolutions. Output in the highest quality with our 4K60 HDMI 2.0 output modules.

doing **LED** right





- **Demand ultra low latency video**

Best-in-class latency for video and IP sources.

- **Experience life-like color**

4K60 HDMI 2.0 outputs even with 4:2:0 and 4:2:2 sources.

- **CORIO® inside**

The best up/down and cross conversion in the industry!

- **See every detail**

8K workflows when every detail matters with quad 4K60 windowing.

- **Assured communication**

HTTPS & RESTful API using software, button panels or 3<sup>rd</sup> party solutions.

- **Ultra-reliable**

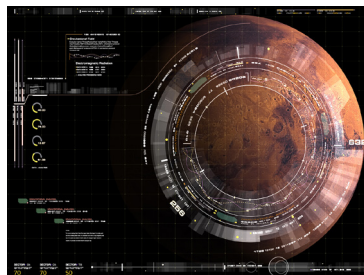
tvONE exclusive design and manufacturing with a 5-year warranty.

## Boost Engagement with **Information Overlays**

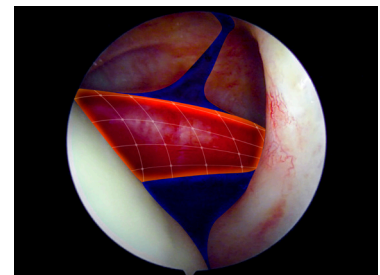
Add visual interest or graphical information overlays to full motion, low latency video. Any CORIOmaster2 output can have luma keying applied in real-time with accurately definable values together with selectable softness to help blend an anti-aliased source with the background image.



Add icons to control walls



Data overlays for Government



Medical route guidance

# Broadcast



## ▪ Lifelike video

High bandwidth processing for immersive HDMI 2.0 4K60 performance.

## ▪ Be creative

Unlimited 360° source and display rotation and up to 56 outputs.

## ▪ Mix and match

Full support for IP, digital AV, broadcast and legacy AV sources.

## ▪ Simple control

Multi-user control options include software, 3rd party controllers or our button panel.

## ▪ CORIO® inside

The best up, down and cross conversion in the industry!

## ▪ Synchronize your videowall

Lock to any input to remove conversion artifacts.

redefine what's possible

## Synchronized Playback for **Ultra-Wide** Canvases!

The streaming media and 4K playback input module can now simultaneously play up to eight reliable, synchronized media clips onto ultra-wide video canvasses. This allows you to get creative and go beyond 4K resolutions to inform, boost revenues and multi-purpose your installations. Additionally, use our FTP integration tools to introduce more efficient workflows.



# Esports

## ▪ Go large

Manage multiple walls from a single chassis.

## ▪ Go large and creative

360° source and display rotation and HDMI 2.0 4K60.

## ▪ Every detail matters

Source Link support for 8K workflows for quad 4K60 sources.

## ▪ Eye-catching transitions

Window movements and source switching transitions including video dissolves.

## ▪ Doing LED right

Pixel perfect installations.

## ▪ Ultra-reliable

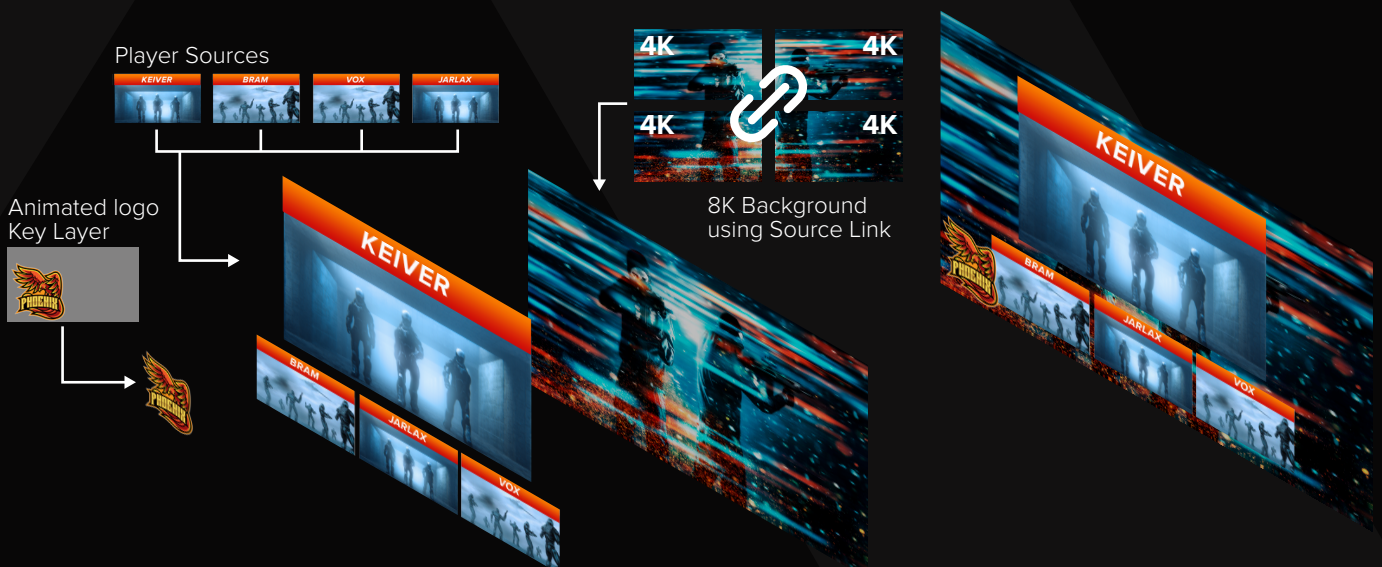
tvONE exclusive design and manufacturing with extreme reliability and 5-year warranty.



## 8K Windows for **Visual Impact**

Using Source Link, our new, 8K windows can automatically display four 4K60 sources together which can then freely be positioned, layers and have transition applied.

Your favorite window layouts can be saved as system Presets for quick recall and then brought to life with eye-catching transitions or using keyed layers to add branding or additional information.





# Live Events

## ▪ CORIO<sup>®</sup> inside

The best up, down and cross conversion in the industry!

## ▪ Mix and match

Full support for low latency IP, digital AV, broadcast and legacy AV sources.

## ▪ Demand lip sync perfection

Best-in-class video latency for video and IP sources.

## ▪ Future proof your investment

Modular platform and field upgradeable software.

## ▪ Experience life-like color

4K60 4:4:4 output performance even with 4:2:0 and 4:2:2 sources.

## ▪ Synchronize your world

Synchronise your wall sources to prevent image tearing.



## Seamless, Eye-Catching Transitions

CORIOmaster2 fully supports a range of transitions including seamless cuts, dissolves, fade to/from and through black, Using Presets, create eye-catching window movement animations.



## Best-in-Class Scaling and Format Conversion

Experience industry leading scaling for HD, 4K and 8K sources with CORIO<sup>®</sup>, our proprietary technology. CORIOmaster2 processes the equivalent of over 1 trillion video matrix calculations per second with 1 to 2 frames of signal delay from input to output, guaranteeing the highest quality video possible with no visible lag.



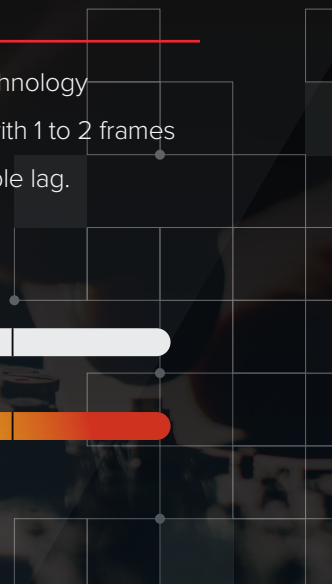
Perceptible by the human eye

CORIO<sup>®</sup>

2 FRAMES OR LESS

TRADITIONAL

6 FRAMES



# Chassis

CORIOmaster<sup>2</sup> is the modular solution to future proof your investment.



## INPUT MODULES



**Dual 4K HDBaseT**  
Supports resolutions up to 4096x2160/60p or 500ft reach with HD-ONE DX500.



**Dual DVI Universal**  
Supports resolutions up to 1920x1200/60p.



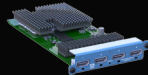
**Quad 3G-SDI Broadcast**  
Supports resolutions up to 3G-SDI (1080/60p) versions.



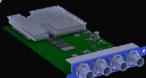
**Dual 4K HDMI**  
Supports resolutions up to 4096x2160/60p.



**Quad 1080p HDMI**  
Supports resolutions up to 1920x1080/60p.



**Quad 4K60 HDMI**  
Supports resolutions up to 4096x2160/60p.



**NEW! Quad 12G-SDI Broadcast**  
Supports resolutions up to 3840x2160/60p.

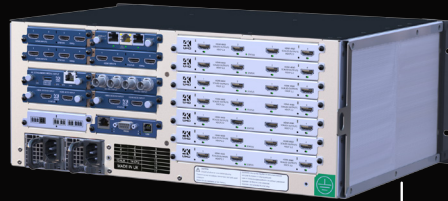


**4K Streaming & Media**  
Low latency H.264 & H.265 streaming decoder. IP source labeling. Playback of video clips and stills from on-board 128Gb HDD.



**NEW!**

**IP & RS-232 Control**  
A more powerful module (ships as standard) for firmware version V600. Existing users can easily upgrade, unlocking the new features.



Air Filter

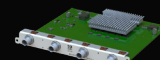
## OUTPUT MODULES



**Quad 4K60 HDMI**  
Supports resolutions up to 3840x2160/60p.



**Eight HDMI**  
Supports resolutions up to 1920x1080/60p.



**NEW! Quad 12G-SDI Broadcast**  
Supports resolutions up to 3840x2160/60p.



**S/PDIF and Analog Audio**  
Embed and de-embed audio from S/PDIF or analog cross convert digital and analog audio.

## ADAPTORS

For use with legacy AV formats



HDMI



CV



Analog PC



YC (S-Video)



Analog RGBHV



YPbPr/YUV



# EASY YET POWERFUL SETUP

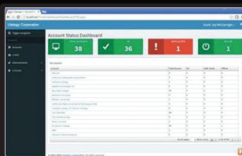


## CORIOgrapher

Our creative video wall software allows ultra-quick video wall set up working in either online or offline modes. Resize and move sources, control media clips or IP streams and control your entire visual experience using presets or our dashboard interface.

## Control

Other options for real-time control include control panels or 3rd party control linking to our open source, real-time API.



### Infrastructure Control Solutions

- Control any API level function
- API available at [api.tvone.com](http://api.tvone.com)



### Automation Control Solutions

- Control any API level function
- API available at [api.tvone.com](http://api.tvone.com)
- Plug-ins for Crestron



### tvONE Hardware Control Panel

- Control any API level function
- EU form factor
- Supports up to 128 commands

# Choose CORIOmaster Whatever your application

CORIOmaster2 is the most powerful member of our video processing family that meets every application, I/O count and budget.



## CORIOmaster2

Optimized for 4K60 environments and is 8K ready. Display up to 40 4K video sources with no visible latency and up to 56 outputs.



## CORIOmaster

Powerful stand-alone video wall processor for expansive 1080p installations which can also display up to 5 4K video sources and up to 56 outputs.



## CORIOmaster mini

Compact form factor solution for smaller 1080p solutions with the ability to add 2 4K video sources and up to 20 outputs.



## CORIOmaster micro

Ultra-compact processor for up to 8 outputs with 1080p environments with optional 4K connectivity.

tvONE

## CORIOmaster<sup>2</sup> LITE



Choose CORIOmaster2 LITE for 4K Video Processing for small and medium applications.

CORIOmaster2 LITE is the newest member of our video processing family. Create the ultimate 4K60 video experience for your small to medium LED installations, projection edge blends or monitor walls. CORIOmaster2 LITE is simple to order and budget friendly.

\*This product is not available in North America.

## Easy to Specify: Quick to Ship

CORIOmaster2 LITE is simple to order and comes at a fixed, budget friendly cost whatever system configuration you choose.

### Select Your System Configuration:



#### Input Slot 1:

Select your preferred input module



#### Input Slot 2:

Fixed 4 x 4K60 input module



#### Output Slot:

Select a: 4 x 4K60 or 8 x 1080p60 module

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