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

CORIOmaster2

Industry leading
4K/8K performance

Captivate your audience with the most powerful video processor on the planet!
Create the ultimate 4K60 video experiences for your high-profile LED installations,
projection edge blends or monitor walls.

tvONE®

CORIOmaster2

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**
  360⁰ 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, 3rd party control or button panel.

- **Easy 8K source management**
  Quad 4K workflows for source input and display output.

CORIOmaster / **CORIOmaster2**

CORIOmaster2 is the most powerful member of the award winning CORIOmaster family. With higher resolutions becoming the standard requirement in many installs, CORIOmaster2 has been designed from the ground up to give massive performance gains.

10x MORE WINDOWS | **4K60 4:4:4 WORKFLOWS** | **8K READY**

Powerful

Unparalleled Performance
Simultaneously display up to 40 windows in 4K60 with normally one frame of latency.
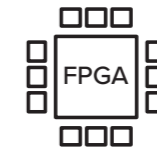
Smart Design
Future-proofed design to grow with you and featuring a striking front panel that will stand out in any rack!

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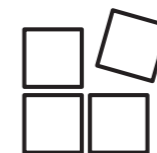
Creative

CORIO Video Processing
Proprietary FPGA technology optimized for 4K60, 4:4:4 outputs and is 8K ready.

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

| Education

Ease of **Control**

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

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

- **Assured communication**

  HTTPS & RESTful API control using software, button panels or 3rd party solutions.

- **IP Stream connectivity**

  Low latency H.264 and H.265 IP with mixed feed playlist carousels.

- **Flexible display choice**

  Deploy LED, edge-blended projectors or display panels. Control multiple walls from a single system.

- **Ultra-reliable**

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

- **Low cost of ownership**

  Low power consumption when compared to competitor systems that are based on PC architecture.

- **Demand lip sync perfection**

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

| Corporate

4:4:4 Output **Performance**

Manage your video chroma subsampling and custom resolutions via CORIOgrapher for simple, seamless integration of your LED walls. CORIOmaster2 has 4:4:4 inputs and outputs and can also upsample 4:2:0 or 4:2:2 content to 4:4:4 for maximum flexibility.

doing **LED** right

- **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.
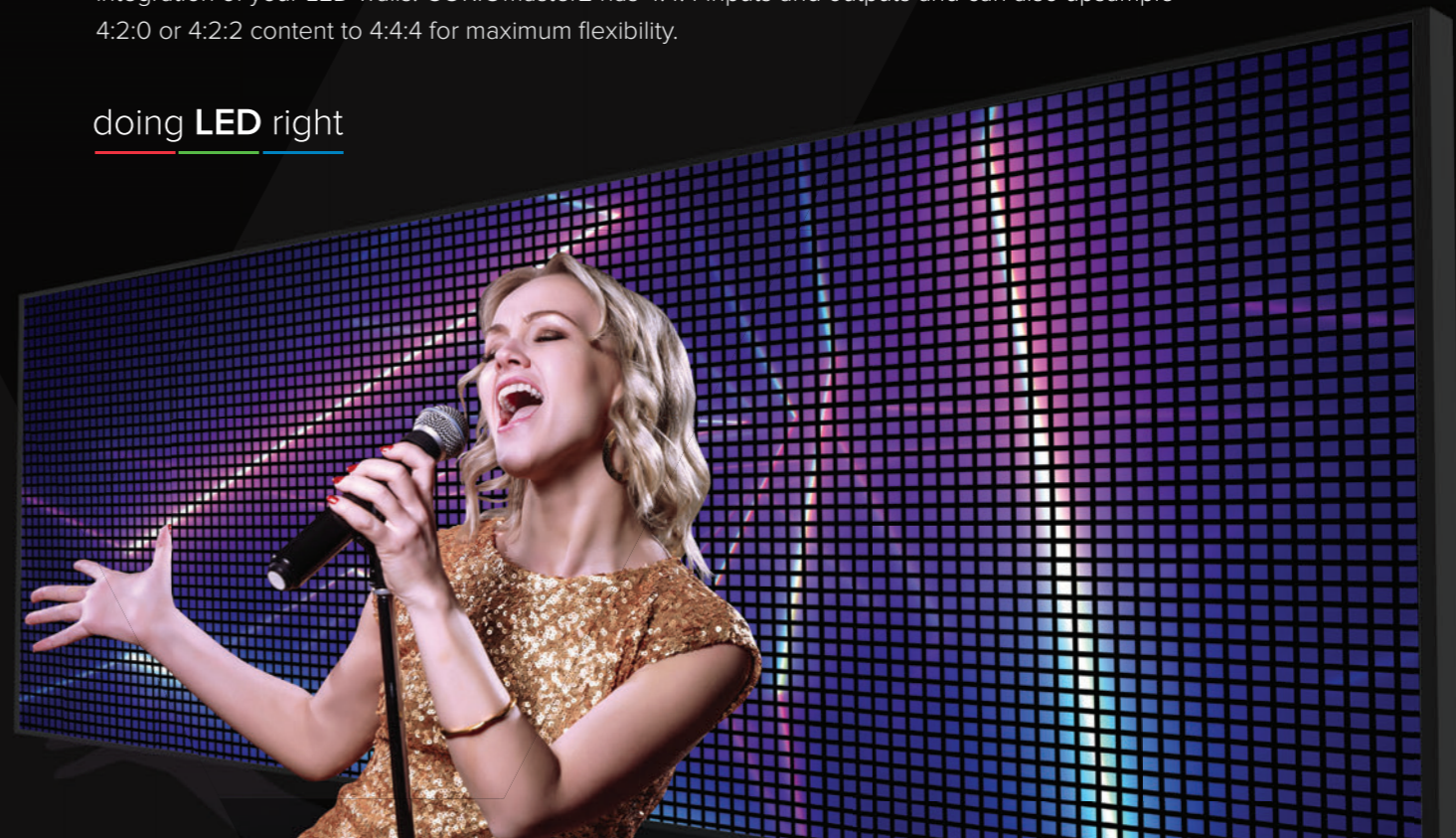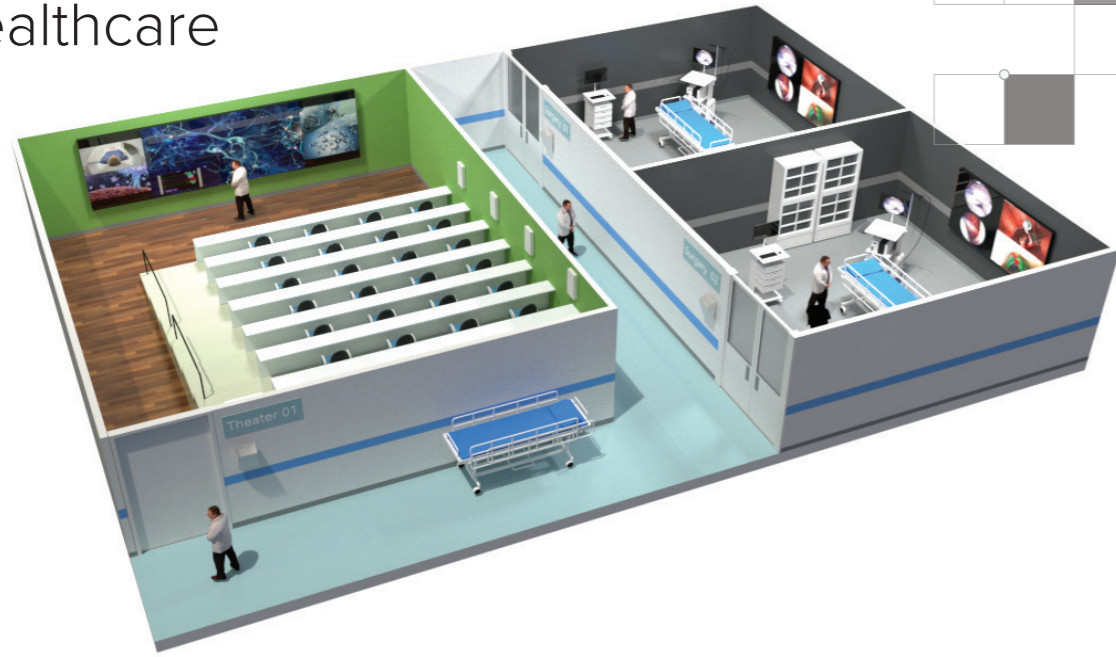
- **CORIO inside**

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

CORIOmaster2

Healthcare

redefine what's possible

Broadcast

- **Demand ultra low latency video**
  Best-in-class latency for video and IP sources.

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

- **Experience life-like color**
  4K60 4:4:4 inputs and outputs. Even with 4:2:0 and 4:2:2 sources.

- **Assured communication**
  HTTPS & RESTful API using software, button panels or 3rd party solutions.

- **CORIO® inside**
  The best up/down and cross conversion in the industry!

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

- **Lifelike video**
  High bandwidth processing for immersive 4K60 4:4:4 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, app, 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.

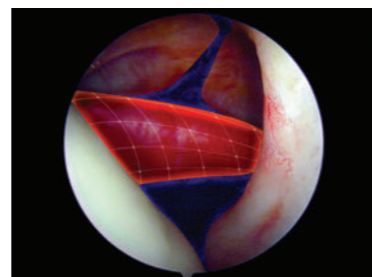## Boost Engagement with **Information Overlays**

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.

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.

add multiple source windows

real-time luma keying

up to **8** sources

Source 1   Source 2   Source 3   Source 4

Add icons to control walls

Data overlays for Government

Medical route guidance

Esports

- **Go large**

  Manage multiple walls from a single chassis.

- **Go large and creative**

  360° source and display rotation and up to 56 displays.

- **Every detail matters**

  Support for 8K workflows with quad 4K60 windowing.

- **Eye-catching transitions**

  Window movement and source switching transitions.

- **Doing LED right**

  Pixel perfect installations.

- **Ultra-reliable**

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

Live Events

- **CORIO® 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.

Best-in-Class Scaling and **Format Conversion**

Experience industry leading scaling for HD, 4K and 8K sources with CORIO®, 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® · 2 FRAMES OR LESS

TRADITIONAL · 6 FRAMES

Smart Dynamic Windows for **Visual Impact**

CORIOmaster2 windows are a highly flexible video layers that can be independently positioned, layered and have a transition applied.

For maximum flexibility, display up to 128 video windows on screen at the same time. Freely position and layer sources anywhere on our design canvases.

Your favorite window layouts can be saved as system presets for quick recall and then brought to life using our eye-catching transitions.
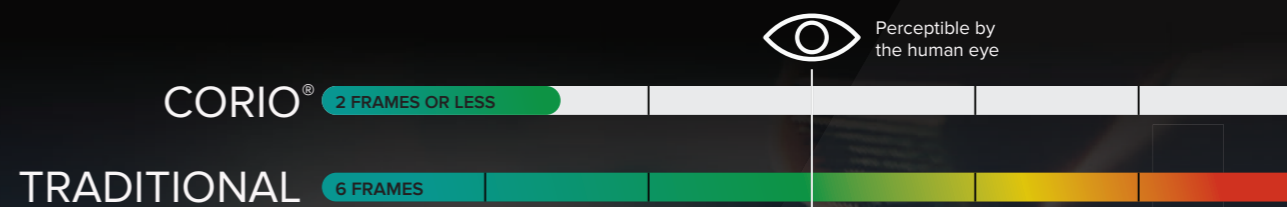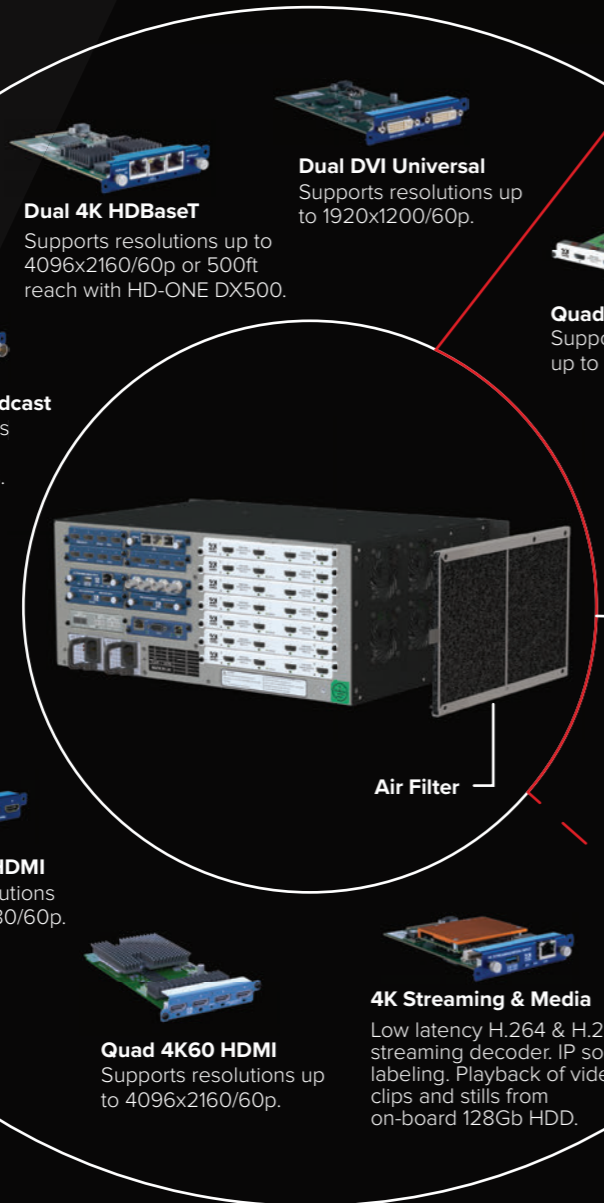
Chassis

CORIO**master2** is the modular and field-upgradeable solution to future proof your investment.

192.168.1.20
CORIOmaster2 - Status OK

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.

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

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

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

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

Air Filter

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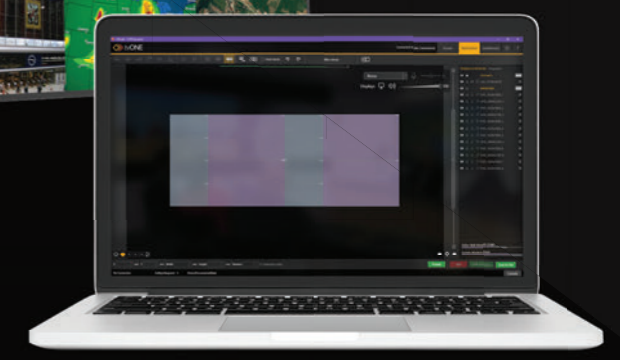Supports resolutions up to 1920x1080/60p.

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

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.
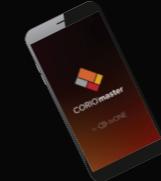
OUTPUT MODULES

CORIOmaster2

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.
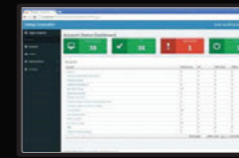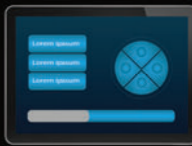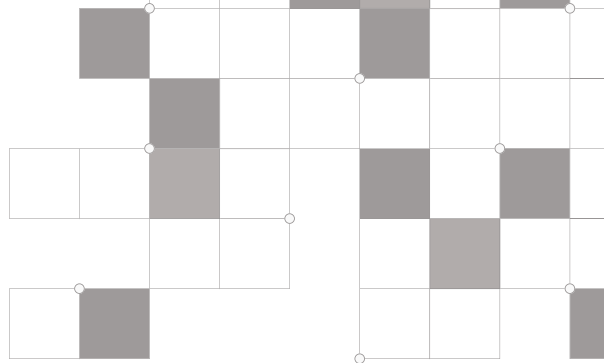
Control

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

tvONE CORIOmaster App

- Available for IOS & Android
- Select custom presets
- Switch sources

Infastructure Control Solutions

- Control any API level function
- API available at *api.tvone.com*

Automation Control Solutions

- Control any API level function
- API available at *api.tvone.com*
- Plug-ins for Crestron

tvONE Hardware Control Panel

- Control an API level function
- US and European form factors
- Supports up to 128 commands

CORIOmaster2

Companion Products

IP Encoding	H.264 encoding Magenta encoder 100		
HDMI Extension	HDMI 2.0 Fiber Magenta MG-FB-61x	HDMI 2.0 Active Optical MG-AOC-66x series	HDMI over HDBaseT HD-One series
Pre-input Multi Windowing	IP, HDMI, HDBaseT & 3G-SDI CORIOview series	HDMI / DVI / VGA C2-6104	3G-SDI / HD-SDI / SDI C2-6104A
HDMI Matrix Solutions	Universal matrix CORIOmatrix	Scaling matrix router CORIOmatrix mini	
HDMI Distribution	Splitter MG-DA-612	4 Port DA MG-DA-614	8 Port DA MG-DA-618
Accessory Rack Mounting & Power	Universal racking, powering & cooling ONErack	Multi-Voltage DC PSU strip ONErack Spider	Multi-Voltage DC rack mountable PSU ONErack Spider
Hippotizer Media Server	8K Playback at 60FPS. 4x DP 1.2 outputs. Tierra+ MK2	2x DP 1.2 or 2x HDMI. 4K playback Karst+ MK2	1x DP 1.2 output, NDI capture and EDID Management Nevis+

CORIOmaster2 is the newest 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 10 outputs.

CORIOmaster micro
Ultra-compact processor for up to four outputs with 1080p environments with some 4K connectivity.

Toll Free: +44 (0)1628 566830　　|　　sales.europe@tvone.com　　|　　www.tvone.com