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

CORIO\textsuperscript{master} 2

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.
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, 3rd party control or button panel.
- **Easy 8K source management**
  Quad 4K workflows for source input and display output.

**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**

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**Powerful**

- **Unparalleled Performance**
  Simultaneously display up to 40 windows in 4K60 with normally one frame of latency.
- **CORIO Video Processing**
  Proprietary FPGA technology optimized for 4K60, 4:4:4 outputs and is 8K ready.
- **Smart Design**
  Future-proofed design to grow with you and featuring a striking front panel that will stand out in any rack!
- **Design Flexibility**
  Create mosaics, square walls, expansive edge blends and power your LED walls with pixel-perfect performance.
- **Extreme Reliability**
  5-year warranty and optional dual redundant PSU’s - it’s easy to see why we are trusted by professionals.
- **Modular Platform**
  Flexible architecture accepts digital, IP, broadcast and legacy AV inputs to exceed requirements.
- **Secure Comms**
  Keep your information safe with HTTPS SSL connectivity and AES IP decodes. Also experience RESTful multi-user control with remote monitoring.

**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.

**Creative**

- **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, 3rd party control or button panel.
- **Easy 8K source management**
  Quad 4K workflows for source input and display output.

911 Emergency Operations Center Peoria, Illinois
Education

- 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.

- 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.

- 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.

- Engage the team
  Eye-catching transitions and animations or seamless video switching.

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

- Mix and match
  Source choices include: IP decoding, digital AV, broadcast, legacy AV or a media player for 4K video and stills.

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

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

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.

- 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.

- Make it sing
  Embedded audio from source to display or choose external breakout for hook-up to external systems.

- CORIO inside
  The best up, down and cross conversion in the industry!
Healthcare

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

Broadcast

- 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.
- 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!

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.

- CORIO® inside
  The best up, down and cross conversion in the industry!
- Mix and match
  Full support for IP, digital AV, broadcast and legacy AV sources.
- Synchronize your videowall
  Lock to any input to remove conversion artifacts.

- add multiple source windows
- real-time luma keying

Source 1
Source 2
Source 3
Source 4

Add icons to control walls
Data overlays for Government
Medical route guidance
**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**
  Synchronize your wall sources to prevent image tearing.

**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.

**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.

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.
Chassis

CORIOmaster2 is the modular and field-upgradeable solution to future proof your investment.

**Input Modules**
- Dual 4K HDMI
  - Supports resolutions up to 3840x2160/60p.
- Quad 4K60 HDMI
  - Supports resolutions up to 4096x2160/60p.
- Dual DVI-Universal
  - Supports resolutions up to 1920x1080/60p.
- Quad 3G-SDI Broadcast
  - Supports resolutions up to 3G-SDI (1080/60p) versions.
- 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.
- Quad 1080p 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.

**Output Modules**
- Air Filter
- Dual DVI-Universal
  - Supports resolutions up to 1920x1080/60p.
- Dual 4K HDMI
  - Supports resolutions up to 1920x1080/60p.
- Quad 4K60 HDMI
  - Supports resolutions up to 1920x1080/60p.
- Eight HDMI
  - Supports resolutions up to 4096x2160/60p.
- Quad 4K60 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.

**Adaptors**
For use with legacy AV formats
- HDMI
- CV
- Analog PC
- YC (S-Video)
- Analog RGBHV
- YPbPr/YUV
- Air Filter

**Infrastructure Control Solutions**
- Control any API level function
- API available at app.tvone.com
- Supports up to 128 commands

**Automation Control Solutions**
- Control any API level function
- API available at app.tvone.com
- Programs for Crestron
- US and European form factors
- Infrastructure Control Solutions

**tvONE CORIOmaster App**
- Available for iOS & Android
- Select custom presets
- Switch sources

**tvONE Hardware Control Panel**
- Control any API level function
- US and European form factors
- Supports up to 128 commands

**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.
COMPANION PRODUCTS

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