

4K/8K Video Processor



OVERVIEW

CORIOmaster2 (CM2-547) is a powerful, efficient approach to building large 4K/8K video display systems. Multiple video windows can be positioned on LED, display based videowalls or projector edge blends, displaying any of the sources connected to CORIOmaster2. Windows can be visually "transitioned" into position, resized or rotated to any proportion allowing designers to achieve striking visual effects. Each system can support up to three separate 4.1 Gigapixel video canvasses with up to sixty four windows per canvas depending upon the source resolution, frame rate and size of windows. CORIOgrapher, the control software for the CORIOmaster2 series of processors, is a simple, easy to use design interface that enables window and source positioning and transition effects. This dynamic feature is easily managed through presets in CORIOgrapher or by simple commands executed by third party control systems. Fifty presets can be saved permanently in the system.



KEY FEATURES

- ◆ Patented CORIO® video processing technology
- 752Gbit system bandwidth (360Gbit output bandwidth)
- Up to 128 windows per system (40 x 4K60 total)
- Up to 64 windows per canvas
- Manage up to 3x 4.1 Gigapixel canvases (over 12 Gigapixels of design space)
- ◆ 4RU frame size
- Modular (8x Video Input Slots, 7x Video Output Slots and 1x Audio Slot
- ♦ Cascadable (future expansion requires additional expansion module)
- Field upgradable (flash, upgradeable via download)
- Low power consumption when compared to PC based systems
- Uses CORIOgrapher, an easy to use and powerful software interface
- CORIOgrapher live dashboard to switch presets and window sources
- Automatically discover device on the network using CORIOdiscover
- Simultaneous output from 4 to 28x 4K60 outputs and 1 to 20x 4K60 Inputs
- Simultaneous output from 4 to 28x 4K30 outputs and 2 to 24x 4K30 inputs
- From 8 to 56x full HD outputs and 2 to 32x full HD inputs
- ♦ Windows and displays can be rotated in 1° increments
- Versatile DVI inputs: (HDMI/DVI/CV/YC/RGB/YPbPr)
- ◆ 4K60 input & output modules
- ◆ HDMI outputs: (8x 1080P60 or 4x 4K60 modules available)
- ♦ 4K HDBaseT inputs
- ◆ SDI inputs SD/HD-SDI/3G-SDI to 1080p60
- Luminance Keying feature available on all outputs

- H.264/H.265 4K/30 Streaming Media & 4K Playback Input Module
- High resolution analog inputs
- ◆ HDMI inputs & outputs with HDCP handling
- Combination of different size and resolution of displays can be used
- ◆ Customizable bezel compensation
- Multi-edge blending of projectors
- ◆ Up-down-cross conversion
- ◆ EDID manager
- Secure command interface
- ◆ REST API
- Real-time status feedback through events
- Simple serial control protocol
- ◆ Command line interface third party control
- Crestron modules available
- ◆ IP decoding low latency mode
- ◆ IP stream labelling
- Audio support (one stereo pair per canvas)
- ◆ Audio module to embed and de-embed
- Custom resolution editor
- Framelock and synclock
- ♦ 8HD synchronized playback

OPTIONS

- Dual redundant power supply (load balanced)
- Universal DVI adapters
- Optional air inlet filter
- Onsite system commissioning (US Only)

Requestable Items

4RU CORIOmaster2 chassis

Quad 3G-SDI input

Dual 4K Streaming Media Input 128GB SSD

DVI-U input 2x (DVI, RGB/YUV, CV, YC via DVI-I)

HDMI 1080P input 4x

HDMI 4K input 2x

HDMI 4K input 4x

HDBT 4K input 2x (and single ethernet)

Audio I/O module - analog (1xIN, 1xOUT), SPDIF (1xIN, 3xOUT) via terminal block

HDMI 4K output 4x

HDMI 1080P output 8x

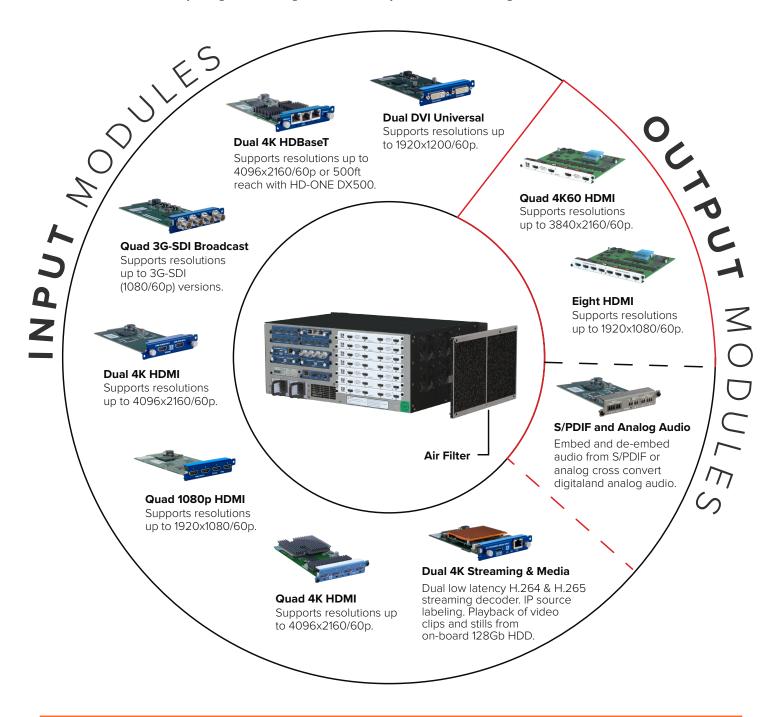
Optional dual redundant, hot swappable power supply (400w or 700w load balanced)

Onsite system commissioning (US Only)



Modular Flexibility

CORIOmaster2 can accommodate numerous I/O configurations in the eight input and seven output video slots available; when inserted, the modules are automatically recognized & configured. This flexibility allows end user configurations to be based on their own needs.



ADAPTORS

For use with legacy AV formats





SPECIFICATIONS

Digital DVI		SPECIF	
Architecture 16's CORIO Video Processing Yes Up/Down/Cross Conversion Yes Display Size Compensation Yes, different sizes in video walls* Output Rotation Yes, different sizes in video walls* Video Inputs Video Inputs Up to 16x via Universal DVI, Format RGBHV, RGBS, RGSB, YPbPr Analog Up to 16x via Universal DVI, Format RGBHV, RGBS, RGSB, YPbPr Composite Video - Up to 16x via DVI-U YC (S-Video) - Up to 16x via DVI-U YU V/YPbPr- Up to 16x via DVI-U YU VY	Video Processing Power		
Architecture CORIO Video Processing Up/Down/Cross Conversion Number of Canvasses 3 Display Size Compensation Output Rotation Projector Edge Blending HDCP Key Handling Ves Video Inputs Up to 16x via Universal DVI, Format RGBHV, RGBS, RGsB, YPbPr Composite Video - Up to 16x via DVI-U YC (S-Video) - Up to 16x via DVI-U Television Standards - NTSC, PAL Digital DVI HDMI Up to 32x (HDCP compatible) HDMI Up to 32x (HDCP compatible) Up to 32x (HDCP comp	Parallel Processing	Yes	
Up/Down/Cross Conversion Yes			
Number of Canvasses 3 Display Size Compensation Yes, different sizes in video walls*1 Output Rotation Yes for any outputs and windows Projector Edge Blending Yes Total			
Display Size Compensation Output Rotation Projector Edge Blending HDCP Key Handling Yes Video Inputs Up to 16x via Universal DVI, Format RGBHV, RGBS, RGsB, YPbPr Composite Video - Up to 16x via DVI-U YUV YPbPr - Up to 16x via DVI-U Television Standards - NTSC, PAL Digital DVI HDMI Up to 32x (HDCP compatible) HDMI Up to 32x (HDCP compatible) HDBaseT + Ethernet Up to 32x (1000 γ 20 γ 4K60 Up to 8x 4K30 plus 8x 1080p/30 plus 8x ethernet via RJ45 GSDi Up to 16x via Universal DVI (HDMI & HDCP compatible) Up to 32x (1000 γ 20 γ 4K60 Up to 8x 4K30 plus 8x 1080p/30 plus 8x ethernet via RJ45 GSDi Up to 32x 1080P/60 via BNC Up to 16x 1080P/30 or 8x 4K30 plus 8x 1080p/30 plus 8x 1080p/30 or 8x 4K30 plus 8x 1080p/30		100	
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HDCP Key Handling Yes	· ·	·	
Analog Analog			
Analog			
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4K HDMI	Digital DVI	Up to 16x via Universal DVI (HDMI &	
HDBaseT + Ethernet	HDMI	Up to 32x (HDCP compatible)	
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AV over IP (up to 8x module card	s)	
Interface	1 x GbE Ethernet Port	
IP Video Decoding	H.264 (Main, High), MPEG4, H.265/HEVC (Main) 8-bit	
IP Bit Rates	Up to 16x streams up to 50Mbit H264, 25Mbps H265 per stream (dual stream)	
Color Depth	4:2:0, 4:2:2	
Supported IP Resolutions	Configurable to 3840x2160/30	
Unicast Streams	RTSP, RTMP, HTTP, MPEG-TS	
Multicast Streams	RTSP, MPEG-TS	
Media/Images		
Still Image	JPEG, PNG, BMP	
Interfaces	Up to 8x USB3.0, Internal Storage, Network	
Video Codecs	H.264 (CBP, Main, High), H.265/ HEVC (Main)	
Video Formats	mp4, mov, mkv, m4v, ts, mts, m2ts, mt2, mpeg2	
Playback Bit Rates (Streaming and Media Playback)	H264 total data handling 100Mbs, single channel up to 50Mbps @4K30 (2nd render HD). H265 total data handling 50Mbps, single channel up to 25Mbps @4K30 (2nd render HD)	
File Playback Resolutions Suppor	ted	
Up to 3840x2160@30fps	Up to 8x (1x per module with 2nd render HD)	
Up to 1080p60@60fps	Up to 16x (2x per module)	
Up to 8x 7680 x 4320	Still images *(scaled to 4K)	
Media Handling		
External	Up to 8x USB 3.0 interface	
Supported devices	Flash file systems FAT, FAT32, ext3, ext4, NTFS	
Internal	High-speed storage up 128GB per module	
Remote	File transfer supported	
Control Methods		
RS-232 via D9 Female Connector IP Interface RJ45 Connector for both HTTP(s)		
	oth HTTP(S)	
CPU Module Settings Memory	Non-Volatile	
Warranty	Non-voidule	
Limited Warranty 5 Years Parts and Labor		
Regulatory Compliance	id Edbor	
Main unit FCC, CE, RoHS, ULc		
Mechanical		
Size (H x W x D)	7.0" x 17" x 12.09", (178mm x 432mm x 307mm), (D) including PSU Handle 12.99" (330mm), (W) including rack ears 19" (483mm)	
Weight (Net)	Approx. 22 lbs (10Kg) Chassis Without Modules but included 1x Power Supply	
Environmental		
Operating Temperature	32° to 104°F (0° to +40°C)	
Operating Humidity	10% to 85%, Non-condensing	
Storage Temperature	14° to +158°F (-10° to +70°C)	
Storage Humidity	10% to 85%, Non-condensing	
вти	1365 BTU (400W), 2390 BTU	
Fan Noise	(700w) 32 to 64 db	
Power		
Internal Power Supply	110v to 240v auto-detecting	
Redundancy	Optional Internal Hot Swap PSU with load balancing.	
Consumption	400W or 700W depending upon version	
Specifications subject to change		



 $^{^{*1}}$ using different sized monitors in the same wall can degrade picture quality *2 DVI input module only supports 720p frame rates 50, 59.94 & 60Hz