Make the most of your visual space

CORIO®view™

The 4K multi-window viewer redefined

OVERVIEW

CORIO**view** is the fastest, most intuitive 4K multi-window processor with up to 8 sources. This easy to use, plug and play solution features front panel control for preset recall or source selection. With Made To Order options and six off the shelf variants CORIO**view** can take in almost any input type and display it on a HDMI display up to 4K. Input types include: IP, HDMI, DVI-U and SDI.

Preset Layouts
CORIO**view** has 32 different preset layouts giving users the ultimate freedom for displaying any number of sources in different sizes and locations on the display.

Transitions
When selecting window layouts or switching sources; transitions, such as fade through black or eye-catching motion transitions, provide a unique visual experience.

Labels & Borders
Sources can be labelled making them easily identified. Borders can be added to labels and video windows.

Front panel control
CORIO**view**'s front panel is minimalist in its design and is easy to use. Users can activate preset layouts, route video and audio using the front panel. The Info button, a first in the AV industry, is an instant source of information displaying current source and window assignments.

Format conversion
CORIO**view** offers Up/Down/Cross conversion for the full range of analog and digital video signals using high quality CORIO scaling engines.

Control Options
CORIOgrapher is tvONE's intuitive control software for configuration and operation of your CORIO**view**. Optimized for multi-window operations and touch screen control, **CORIO**grapher functionality includes selecting preset layouts, labelling, bordering and configuring sources. Other options include a real-time API together with AMX & Crestron plug-ins.

Audio Embedding / De-embedding
Audio can be output through the display or the integrated S/PDIF port with any input able to be routed to any output.

Ultra-Quiet Operation
CORIO**view** is perfect for your in room install with its whisper quiet operation.

Mounting Options
A 1RU mounting kit is available for both single and dual units as well as a surface mount option for mounting on tables or walls. Or choose to install in your ONE**rack** system with our customized CORIO**view** module.

Made to Order

Choose your output Module	Choose up to 2 input Modules
Chassis + HDMI (UHD 4K) out	4 x HDMI (1080p)
Chassis + Cloned DVI-i(1080) out	4 x 3G-SDI (1080p)
Chassis + Cloned 3G-SDI out	2 x DVI-U (1080p)
Chassis + Cloned HDBaseT (1080) out	2 x HDMI (UHD 4K)
	2 x HDBaseT (UHD 4K)
	4 x HD-SDI (1080i)
	2 x AVIP (UHD 4K)

Off the Shelf

MWP-4H-1Y	4 x 1080p HDMI
MWP-8H-1Y	8 x 1080p HDMI
MWP-4Y-1Y	4 x UHD 4K HDMI
MWP-4D-1Y	4 x DVI-U
MWP-8GS-1Y	8 x 3G-SDI
MWP-4Hi-1Y	4 x 1080p HDMI & 2 x Streaming media & 4K playback

KEY FEATURES

- Advanced 4K processor with up to 8 sources
- 1RU ½ width form factor with ultra-quiet operation
- Intuitive Front Panel Control for presets and switching
- Mixed Input types including: IP, HDMI, DVI-U & SDI
- HDCP Handling on HDMI Inputs & Outputs
- Eye-catching transitions or fade through black
- Source labelling and Borders
- Info button to easily indicate your source selection
- Audio breakaway from S/PDIF or display
- **CORIO**grapher touch enabled control software
- Third party control through API or AMX & Crestron plug-ins
- Available in MTO versions plus six (6) off the shelf variants
- 19" rack, surface or ONE**rack** mounting options

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Secure Command Interface

Secure Communication mode - provides a mode to encrypt all networked based communication through AES128 encryption to provide private communication in mission critical applications where network security and authentication is essential.

REST API / WebSocket - Based on industry standard schema, CORIO**view** supports REST API providing multi-user communication to the device. Integrators can now subscribe to a growing range of events to provide real time feedback from CORIO**view** (such as: HDMI handshake, lost source, USB stick removed). These events can be used by a control system to automatically monitor the performance and events of the videowall and respond accordingly.

Control

Multiple control points - Using our REST API up to four users can now control a single CORIO**view** simultaneously making programming, control and fault finding a dream. In addition to control via **CORIO**grapher, simultaneous control is possible using a third-party control system using our real-time API interface.

Emergency cut/mute features - Cut individual canvasses to black and mute audio or cut all outputs to black and mute.

Output Cloning

CORIO**view** will now automatically "clone" the main output to a second connector when a module is fitted with more than one output. This could reduce the quantity of equipment required in the set-up enabling the output from CORIO**view** to be sent to two different displays without the need for a distribution amplifier.

EDID Manager

Provide an interface in **CORIO**grapher to allow users to quickly and easily upload their own custom EDIDs to CORIO**view**. The feature allows a number of custom EDID's to be loaded and assigned to inputs.
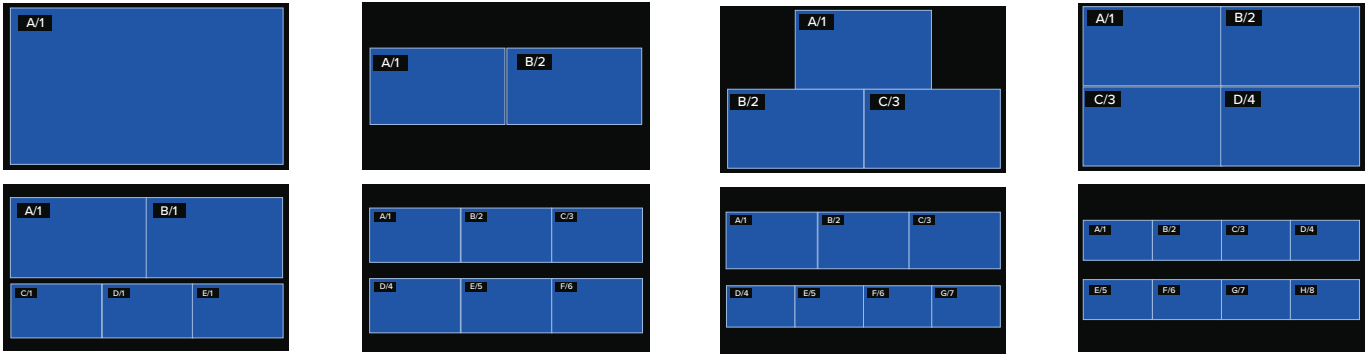
Output Rotation

CORIO**view**'s output can be rotated to use with landscape or portrait displays. Rotation can be set to 0°, 90°, 180° or 270° depending upon the display orientation. Rotation is achieved by a setting within **CORIO**grapher.

Example set-up when used in a medical training application

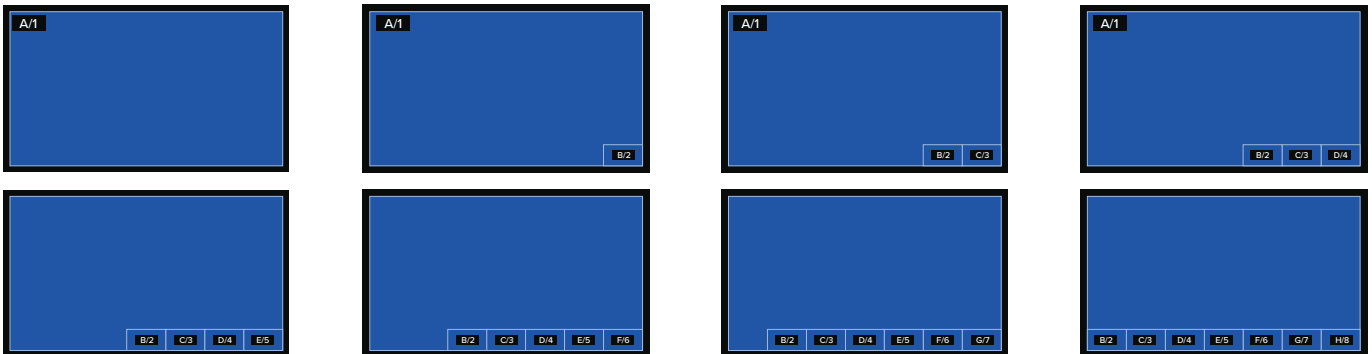| Dual 4K In	Dual 4K Input
4K HDMI Out	CPU Module

4K Display
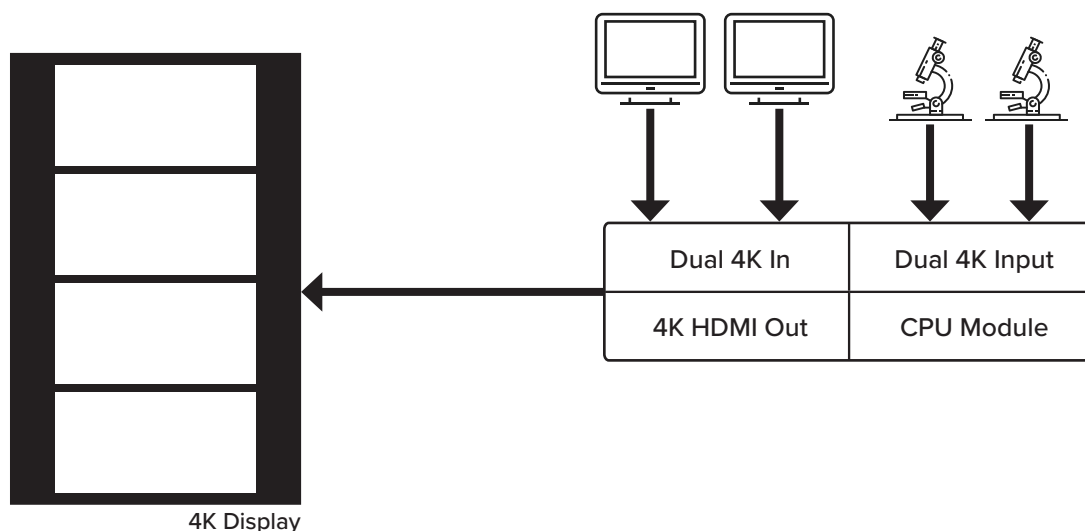
Landscape Preset Layouts

Layouts 1 - 8

Layouts A - H

Portrait Preset Layouts

Layouts 1 - 8

Layouts A - H

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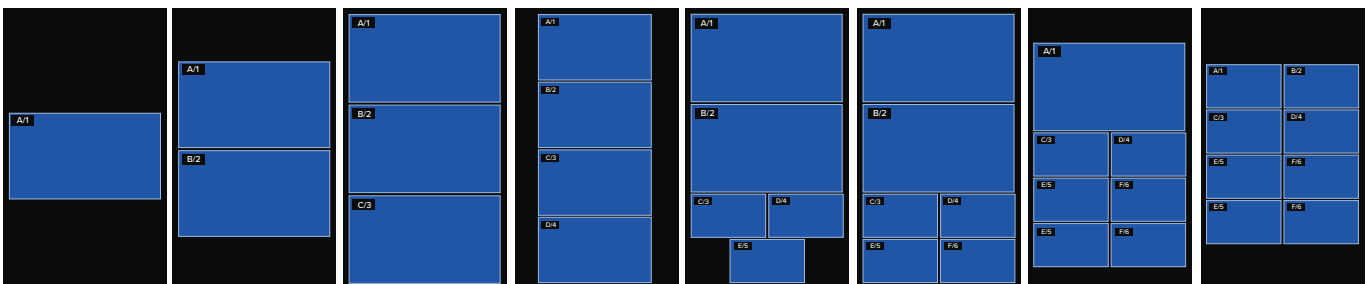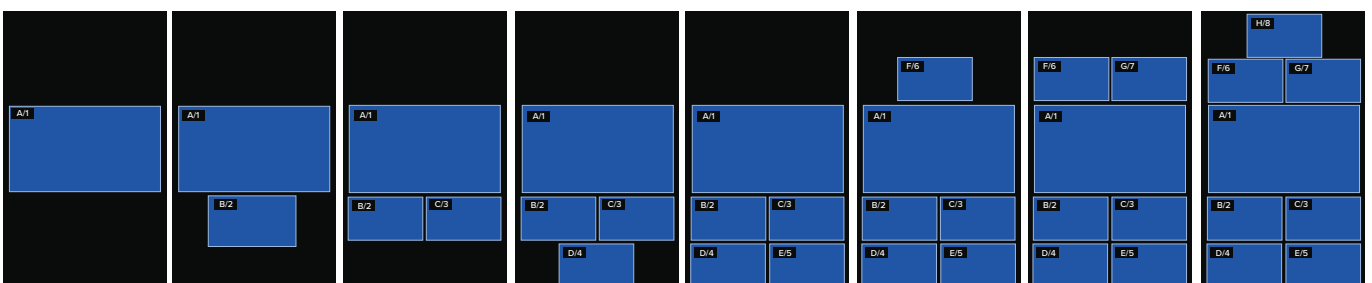
SPECIFICATIONS

Video Processing

Technology	CORIO®3
Performance	Inputs up to 4K60 & Output up to 4K30
Format conversion	Up/Down/Cross Conversion
Max. number of Windows	8

Windows

Windows	Up to eight windows*
Borders	Configurable color & thickness
Labels	Available on all windows
Transitions	Available when changing sources or Presets

Presets

Number of presets available	32*
Accessible from front panel	32*
Preset effects	Transitions, fade through black or window movement

Configuration & Control

Application	CORIOgrapher software
Platform	PC with Windows 10 & Windows 7 minimum
Standby Mode	Faster boot up & saves power

Control Ports

RS-232	D9 Female Connector
IP Interface	RJ45 Connector
USB	Type B - for future use

Video Inputs

4H-1Y

Input connectors	4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
Resolution support (4:4:4)	480i, 576i - 24Hz to 60Hz
	720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
	1035i (1920x1035) - 59.94, 60Hz
	HDMI-4in - 1080i 50, 59.94, 60Hz
	1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
Color format support	RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
Color depth	8 bpc (24 bit/px)
Color space support	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p

8H-1Y

Input connectors	8 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
Resolution support (4:4:4)	480i, 576i, 24Hz to 60Hz
	720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
	1035i (1920x1035) - 59.94, 60Hz
	1080i (1920x1080) - 50, 59.94, 60Hz
	1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
Color format support	RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
Color depth	8 bpc (24 bit/px)
Color space support	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p

4Y-1Y

Input connectors	4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
Input maximum capability	Up to 2x 4K@30, 1x 4K@60 per module (2 modules)
Resolution support (4:4:4)	480i, 576i, 24 to 60Hz
	720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
	1035i (1920x1035) - 59.94, 60Hz
	1080i (1920x1080) - 50, 59.94, 60Hz
	1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
	2160p (3840 x 2160) - 23.98 24 25, 29.97 & 30Hz
	2160p (4096x2160) - 50/59.94/60Hz
Resolution support (4:2:0)	2160p (3840 x 2160) - 50, 59.94, 60Hz
Color format support	RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
Color depth	8 bpc (24 bit/px)
Color space support	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p and 2160p

8GS-1Y

Input connectors		8 x BNC
SDI support	3G-SDI	1080p 60/59.94 SMPTE424M-A 2.97/2.967Gbps < 0.3 UI jitter
	HD-SDI	720p, 1035i, 1080i (reduced quality with this because quad input is 4:2:0), 1080p SMPTE292M 1.485/1.4835Gbps < 0.2 UI jitter
	SD-SDI	(526/625 lines) SMPTE259M-C 270Mbps < 0.1UI jitter
Color format support		SDI 4:2:2
Color depth		20 bit

4D-1Y

Input connectors	4 on DVI-U connector - HDMI 1.4 & HDCP 1.4 compatibility
DVI-U Connector supports	HDMI, DVI-I, YC, CV, VGA via optional adapters
Resolution support (4:4:4)	480i, 576i - 23.98, 24, 25, 29.97, 30Hz, 50, 59.94, 60Hz
	720p (1280x720) - 50, 59.94, 60Hz
	1035i (1920x1035) - 59.94, 60Hz
	1080i (1920x1080) - 50, 59.94, 60Hz
	1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
Analog Sync	TTL Level, 10KΩ, Pos or Neg
RGB Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
Max Horizontal Scan Rate	150kHz
Color format support	Digital - RGB, YCbCr 4:4:4 & 4:2:2
	Analog - RGBHV, RGBS, RGsB, YPbPr
Color depth	8 bpc (24 bit/px)
Color space support	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p
Television Standards	NTSC, PAL

4Hi-1Y

HDMI module

Input connectors	4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
Resolution support (4:4:4)	480i, 576i - 24Hz to 60Hz
	720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
	1035i (1920x1035) - 59.94, 60Hz
	1080i (1920x1080) - 50, 59.94, 60Hz
	1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
Color format support	RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
Color depth	8 bpc (24 bit/px)
Color space support	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p

AVIP module

IP Input connector	1 on RJ45 connector
Resolution support	Channel 1 : PC and HD resolutions up to 1920x1080p60
	1920x1200p, 60cvt-rb
	3840x2160p 30, 29.97, 25, 24, 23.98Hz
	4096x2160p 30, 29.97, 25, 24, 23.98Hz
	Full scaling support for other resolutions.
	Channel 2 : 1920x1080p60
	Full scaling support for other resolutions.
Interface	1Gb Ethernet port
Decoding	H.264 (CBP, Main, High)
Stream bit rates	2 Streams each 25Mbps
Streaming resolutions	Configurable up to 1080p60
Color depth	4:2:0
Unicast Streams	RTSP, RTMP, HTTP, MPEG-TS
Multicast Streams	RTSP, MPEG-TS

Media/Images

Interfaces	USB 3.0, Internal Storage
Video Codecs	H.264 (CBP, Main, High)
Video Formats	mp4, .mov, .mkv, .m4v, .ts, .mts, .m2ts, .mt2
Playback Bit Rates	Single stream to 100Mbs, Dual Streams to 40Mbs

File Playback Resolutions Supported

Up to 3480x2160@30fps	1
Up to 1080p60@60fps	Up to 2
Up to 7680 x 4320	Up to 2 (still images only)

Media Handling

External	1 x USB 3.0 interface
Supported devices	Flash file systems FAT, FAT32, ext3, ext4, NTFS
Internal	High speed storage up to 128GB per module

Audio Inputs†

Supported sampling rate	48KHz
Sample size	24 bits
Supported channels	1 Stereo pair on each input
†4H-1Y, 8H-1Y, 4D-1Y, 4Y-1Y, 8GS-1Y	

Audio Output

Connector	RCA
Format	S/PDIF
Supported sampling rate	48KHz
Sample size	24 bits
Supported channels	1 Stereo pair

Video Output

Output connector	HDMI
Landscape & Portrait Output	0°, 90°, 180°, 270°
Resolution support	720p, 1080i & 1080p @ 24Hz to 60Hz
	3840 x 2160 @ 23.98Hz 24Hz, 25Hz, 29.97Hz & 30Hz
Chroma sampling	4:4:4
Scaling	All supported resolutions
Compatibility	HDMI 1.4 & HDCP 1.4
Color depth	8 bpc (24 bit/px)
Color space support	BT.709 for 720p, 1080i, 1080p and 2160p

Embedded Audio Output

Supported sampling rate	48KHz
Sample size	24 bits
Supported channels	1 Stereo pair

Mechanical

Size (H x W x D)	1.73" x 8.54" x 9.61" (44 x 217 x 244mm)
Weight	3.75 lbs (1.7 Kg) approximately

Regulatory Compliance

Main unit	FCC, CE, RoHS, UL

Environmental

Operating Temperature	0° to +40ºC (+32º to +104ºF)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10º to +70º C (+14º to +158º F)
Storage Humidity	10% to 85%, Non-condensing
MTBF	50,000 Hours
BTU	205 BTU/hr
Fan Noise	44dBA @ 0.5m

Power Supply

External	110v-240v 50-50Hz auto-detecting
Connector	Locking
Power cable	US, UK, EU or AU

Accessories included

Quick Start Guide	Printed
USB Key	Documentation & Links
Power Supply	Included

Warranty

Limited Warranty	5 Years Parts and Labor

Seperate datasheet available for made to order options (MTO)
Specifications subject to change without notice

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