CORIO[®] master & CORIO[®] master mini

All-In-One Creative Videowall Processors





CORIOmaster & CORIOmaster mini

All-In-One Creative Videowall Processors

The C3-540 CORIOmaster and C3-510 CORIOmaster mini offer a new, more efficient approach to building video display arrays. tvONE's CORIO®3 technology gives designers and users access to unexplored realms of video processing power. CORIOmaster delivers true power to the technical and imaginative minds driving today's stunning creative and dynamic videowall exhibits.

CORIO3 video processing technology makes the designing of creative and powerful video display systems an entirely visual experience. With tvONE's CORIOgrapher software, a PC is used to design a virtual wall of displays and/or projection screens that can be positioned at any angle or orientation, and multiple projector edge blending is even supported. Then it's a freeform process of creating a Canvas over the virtual displays by sizing, shaping, rotating and positioning each source as required. CORIOmaster manages up to four display canvases simultaneously, and sources can be shared between the canvases.

Using edge blending & bezel compensation, monitor walls and multiple projectors can seamlessly many combinations of inputs by setting up one or more sources that span across the displays. To further assist creative flexibility in the design, windows can be positioned, resized and rotated in 1° increments up to 360° on the Canvas, which is then sent to the videowall.

Using preview windows it is possible to dedicate one canvas as a multiviewer to display all the video sources on a single monitor for previewing during live events or to use as a source status monitor in various types of installations.

CORIOmaster is incredibly versatile and can be specified in most applications without fear of incompatibility. Nearly any video signal type can be input into the system and then scaled or converted to nearly any other signal type for output. External format conversion and scaling is unnecessary, so installation is clean and simple.

New in 2015 is the ability to move live video windows seamlessly with source transitions, a resolution editor for custom resolutions and 4K support for the all new 4K input and output modules.

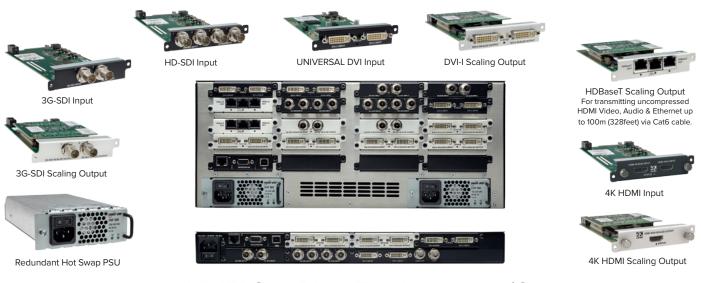
The transition feature initially allows movement of source windows between presets with time duration adjustment by the user for each preset. Source changes by moving windows or static windows is also possible by live switching or via presets. Source effects include fade through black, horizontal shrink and expand, vertical shrink and expand and source spin with one or more effects applied at the same time to each source window. Source transitions are selectable per window on the canvas.

The new resolution editor allows for custom resolutions to be created and uploaded into the unit to be used as input or output resolutions. New resolutions can be created through the unit's API commands for each output or created by using the updated CORIOdiscover app on initial system installation and then selected by the user for each output and auto detected as an input resolution.

The CORIOmaster provides high powered performance but is low on power consumption. In comparison to traditional video systems performing the same tasks may consume as much as ten times the energy.

Modular Flexibility

The CORIOmaster can accommodate numerous I/O configurations in the 16 Universal video slots available, when inserted the modules are automatically recognized & configured. This flexibility allows end user configurations to be based on their own needs. Additional input & output modules for 3G-SDI, HD-SDI, UNIVERSAL DVI, DVI-I and HDBaseT are available.



UNIVERSAL DVI - The Universal I/O

The UNVERSAL DVI interface for the input module utilizes a single DVI-I connector to provide the following signal formats: HDMI, DVI-D, plus analog YUV, YPbPr, RGBHV, RGBS, RGsB, Y/C & Composite Video for all inputs. The DVI-I scalable outputs are selectable at virtually any PC or HDTV resolution







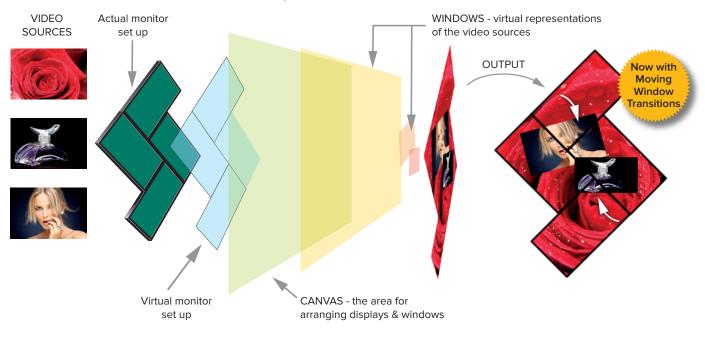


HDMI adapter

Analog PC adapter CV adapter

YC (S-Video) adapters

Image Canvas Control



CORIOgrapher v2

CORIOgrapher is the new CORIO**master**'s control software that allows the user to create up to 4 different Video Walls. You can define each display, its size, position & rotation. Projectors and monitors can be mixed into one Video wall. The Wall Editor is a virtual work area within the **CORIO**grapher software to position live video windows. Video source windows can be sized, positioned, rotated and window transitions saved in each preset along with window source transitions, all configured easily in the Wall Editor. These setups can be stored as Presets for future usage. The creation of transitions for windows and sources are also set using the **CORIO**grapher control software.



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|---------|------------|----------------------|------------|----------------|------------|----------------------|--------------|--------------|----------------|----------------|--|
| | | stom only | | | | | | | | | |
| # 54 | 10 | Name 1920x1080x24 | Width 1920 | Height 1080 | Frame Rate | Pixel Clock 74.25 | Actions | | | Detailed Int | formation |
| | | 1920x1080x25 | 1920 | 1080 | 25,000 | 74.25 | Сору | | | Name: | 640x480p60 |
| 55 | 10 | | | | | | Сору | | | Scan type: | p CEA ID: 1 |
| 56 | 10 | 1920x1080p29.97 | 1920 | 1080 | 29.970 | 74.18 | Сору | | | Pixel Clock: | 25.18 MHz Factor: 1000 |
| 57 | 10 | 1920x1080p30 | 1920 | 1080 | 30.000 | 74.25 | Сору | | | | Horizontal Vertical |
| 58 | 10 | 1920x1080p50 | 1920 | 1080 | 50.000 | 148.50 | Сору | | | Total pixels: | 800 525 |
| 59 | 10 | 1920x1080p59.94 | 1920 | 1080 | 59.940 | 148.35 | Сору | | | Active pxiels: | 640 480 |
| 70 | 10 | 1920x1080p60 | 1920 | 1080 | 60.000 | 148.50 | Сору | | | Front Porch (p | pixels): 16 10 |
| 71 | 10 | 1920x1200p50cvt+rb | 1920 | 1200 | 49.974 | 127.75 | Сору | | | Sync Pulse (pi | ixels): 96 2 |
| 72 | 10 | 1920x1200p60cvt-rb | 1920 | 1200 | 59.950 | 154.00 | Сору | | | Back Porch | CORD (|
| 1000 | 10 | *640x480 59Hz CE01 | 640 | 480 | 59.941 | 25.18 | Сору | Edit | Reset | Polarity: | |
| 1001 | 10 | *Empty2 | 0 | 0 | NaN | 0.00 | Сору | Edit | Reset | Frequency: | Discovered COROmax devices |
| 1002 | 10 | *Empty3 | 0 | 0 | NaN | 0.00 | Сору | T-SR | Reset | | 10.1.3.222 |
| 1003 | 10 | "Empty4 | 0 | 0 | NaN | 0.00 | Copy | Edit | Reset | | CORID-matrix IP 10.1.3.222, S/N 000000000000 |
| 1004 | 10 | "Empty5 | 0 | 0 | NaN | 0.00 | Copy | ídit | Reset | | |
| 1005 | 10 | *[mot/d | 0 | 0 | NaN | 0.00 | Copy | Edit | Reset | | |
| 1006 | | *Empty7 | 0 | 0 | NaN | 0.00 | Сору Сору | Edit | Reset | | |
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| 1008 | | *Empty9 | 0 | 0 | NaN | 0.00 | Сору | Edit | Reset | 1 | |
| 1009 | | *Empty10 | 0 | 0 | NaN | 0.00 | Сару Сару | Edit Edit | Reset Reset | | |

CORIOdiscover

The new app allows the user to log into a unit to update the firmware, change communications settings and create new custom resolutions that can be used as an input or output resolution. This app runs independently of **CORIO**grapher to aid in initial setup of the unit during installation. Communication and firmware updates can also be made through **CORIO**grapher.



Up to 4 simultaneous Canvas outputs with Windows (PIP's) each capable of rotation.

Video Processing Pow

360° output rotation in 1° increments Transitions - rotate, scale, fade through black and slide between sources

Video CORIOgraphy Design Possibilities

LIVE EVENT

Stage monitoring • Edgeblending with side projectors

VIDEO WALLS

Number of displays determined by number of outputs

Rotation of individual monitors possible

COMMAND & CONTROL • Monitoring of various video sources & formats HOSPITAL/HEALTHCARE • Distribution with Windowing to theatres or other locations • Status display of video equipment in use

Specifications

| Parrallel Processing Architecture Yes CORIO® Video Processing Yes Real Time Video Quality < 2 frame signal delay from input to output Up/Down/Cross Conversion Built-in Video Walls & Canvas 4 Display Size Compensation Yes, different size displays in Videowalls Rotation Yes HDCP Key Handling Yes Standard Computer Inputs Up to 28 (HDMI & HDCP compliant) High Density 1 Universal DVI (Analog & Digital) Up to 10 (HDMI & HDCP compliant) High Density 1 Universal DVI (Analog Support) Qp to 28 (HDMI & HDCP compliant) High Density 1 Analog Sync TTL Level, 10KO, Pos or Neg Scan Rate Detection Automatic Analog Signals PC to 1920x1020, HDTV to 1080/60p w/EDID Max Horiz Scan Rate 150kHz Standard Computer Outputs Video Skip Description Vi Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog format RGBHV, RGBS, RGSB, YPbPr R-B Level 0.7 Vp-p DVI Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1 | Video Processing Power | |
|--|-------------------------------------|--|
| Real Time Video Quality < 2 frame signal delay from input to output | Parrallel Processing Architecture | Yes |
| Up/Down/Cross Conversion Built-in Video Walls & Canvas Number of Videowalls 4 Display Size Compensation Yes, different size displays in Videowalls Rotation Yes for any outputs & windows. Edge Blending Yes Standard Computer Inputs Up to 28 (HDMI & HDCP compliant) High Density 1 Universal DVI (Analog & Digital) Up to 28 (HDMI & HDCP compliant) High Density 2 Analog Format RGBHV, RGBS, RGsB, YPbPr Analog Sync TTL Level, 10KQ, Pos or Neg RGB Level Range 0.5-2.0 Vp-p Scan Rate Detection Automatic Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Max Horiz Scan Rate 150kHz Standard Computer Outputs DVI (Inalog & Digital) Up to 10 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2 Analog format RGBHV, RGBS, RGSB, RDPP R-B Level 0.7 Vp-p DVI Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1920x1200, HDTV to 1080/60p Standard Memory Nor-Volatile | CORIO [®] Video Processing | Yes |
| Video Walls & Canvas Animotive of Videowalls 4 Number of Videowalls Yes, different size displays in Videowalls Rotation Yes for any outputs & windows. Edge Blending Yes Standard Computer Inputs Windows. Universal DVI (Analog & Digital) Up to 28 (HDMI & HDCP compliant) High Density ¹ Universal DVI (Analog & Digital) Up to 28 (HDMI & HDCP compliant) High Density ² Analog Format RGBHV, RGS, RoSB, YPDPr Analog Sync TTL Level, 10KΩ, Pos or Neg RGB Level Range 0.5-2.0 Vp-p Scan Rate Detection Automatic Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Max Horiz Scan Rate 150kHz Standard Computer Outputs Standard Computer Outputs DVI-I (Analog & Digital) Up to 28 (HDMI & HDCP compliant) High Density ² Analog format RGBHV, RGBS, RGsB, YPDPr Of Vp-p DVI to 108 (MGC) on MDTV to 1080/60p w/EDID Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Size and Position User Adjustable Settings Memory Non-Volatile | Real Time Video Quality | < 2 frame signal delay from input to output |
| Number of Videowalls4Display Size CompensationYes, different size displays in VideowallsRotationYes for any outputs & windows.Edge BlendingYesHDCP Key HandlingYesStandard Computer InputsUp to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog FormatRGBHV, RGBS, RGSB, YPDPrAnalog SyncTTL Level, 10KO, Pos or NegRGB Level Range0.5-2.0 Vp-pScan Rate DetectionAutomaticAnalog SignalsPC to 1920x1080, HDTV to 1080/60p w/EDIDMax Horiz Scan Rate150kHzStandard Computer OutputsUp to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGBS, RGSB, YPDPrAnalog formatRGBHV, RGBS, RGSB, YPDPrR-G-B Level0.7 Vp-pDVI-I (Analog & Digital)Up to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog SignalsPC to 1920x1080, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DV/HDM/W YPDPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUp to 2 | Up/Down/Cross Conversion | Built-in |
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| RGB Level Range0.5-2.0 Vp-pScan Rate DetectionAutomaticAnalog SignalsPC to 1920x1080, HDTV to 1080/60pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDMax Horiz Scan Rate150kHzStandard Computer OutputsUp to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGBS, RGSB, YPbPrR-6-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1200, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo Comb FilterDV ia UNIVERSAL DVI 1Up to 18 via UNIVERSAL DVI 2Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1Up to 16 via BNC (4 input module) 1Up to 16 via BNC (4 input module) 1Up to 8 via BNC 2MHD/3G-SDIUp to 28 via HDMI 1Up to 8 via BNC 2MK30Up to 4 via HDMI 1 | | |
| Scan Rate DetectionAutomaticAnalog SignalsPC to 1920x1080, HDTV to 1080/60pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDMax Horiz Scan Rate150kHzStandard Computer OutputsDVI-I (Analog & Digital)Up to 28 (HDMI & HDCP compliant) High Density 1Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGBS, RGsB, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsNTSC, PALComposite VideoUp to 28 via UNIVERSAL DVI 1Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 28 via UNIVERSAL DVI 2SD/HD-SDIUp to 56 via BNC (4 input module) 1Up to 10 via UNIVERSAL DVI 2SD/HD/3G-SDIUp to 28 via BNC 1Up to 8 via BNC 24K30Up to 14 via HDMI 1Up to 14 via HDMI 1 | | 0.5-2.0 Vp-p |
| Analog SignalsPC to 1920x1080, HDTV to 1080/60pDVI SignalsPC to 1920x1020, HDTV to 1080/60p w/EDIDMax Horiz Scan Rate150kHzStandard Computer OutputsUp to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRCBHV, RGBS, RGSB, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary - CORIO*3ColorRGB/DV/HDMI/ YPbP 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo Comb FilterVideo NUIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 10 via UNIVERSAL DVI 2SD/HD-SDIUp to 28 via BNC 1 Up to 8 via BNC 2WHO/3G-SDIUp to 28 via HDMI 1 Up to 8 via HDMI 1 Up to 14 via HDMI 1 | | |
| DVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDMax Horiz Scan Rate150kHzStandard Computer OutputsDVI-I (Analog & Digital)Up to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGBS, RGsB, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1200, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DV/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo Comb FilterVolta UNIVERSAL DVI 1 Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YUV /YPbPrUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 10 via UNIVERSAL DVI 2SD/HD-SDIUp to 28 via BNC 1 Up to 28 via BNC 2WHO/3G-SDIUp to 28 via HDMI 1 Up to 8 via HDMI 1 Up to 8 via HDMI 24K60Up to 14 via HDMI 1 | | |
| Max Horiz Scan Rate 150kHz Standard Computer Outputs DVI-I (Analog & Digital) Up to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2 Analog format RGBHV, RGBS, RGsB, YPbPr R-G-B Level 0.7 Vp-p DVI Signals PC to 1920x1200, HDTV to 1080/60p w/EDID Analog Signals PC to 1920x1080, HDTV to 1080/60p Size and Position User Adjustable Settings Memory Non-Volatile Conversion Technology Proprietary – CORIO®3 Color RGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0 Max. Sampling Rate 162/Hz Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Comb Filter Adaptive Video Comb Filter Adaptive Video Comb Filter Adaptive Video Comb Filter DV via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC 4 input module) 1 Up to 16 via BNC 2 SD/HD/3G-SDI | | |
| DVI-I (Analog & Digital)Up to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGSR, RGSR, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1020, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsNTSC, PALComposite VideoUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 10 via UNIVERSAL DVI 2SD/HD-SDIUp to 28 via BNC 1 Up to 8 via BNC 2Up to 8 via HDMI 1 Up to 8 via HDMI 1Up to 34 via HDMI 1 | | |
| DVI-I (Analog & Digital)Up to 28 (HDMI & HDCP compliant) High Density 1 Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGSR, RGSR, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1020, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsNTSC, PALComposite VideoUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 10 via UNIVERSAL DVI 2SD/HD-SDIUp to 28 via BNC 1 Up to 8 via BNC 2Up to 8 via HDMI 1 Up to 8 via HDMI 1Up to 34 via HDMI 1 | Standard Computer Outputs | |
| Up to 10 (HDMI & HDCP compliant) High Density 2Analog formatRGBHV, RGBS, RGsB, YPbPrR-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DV/HDMI/ YPbP 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsContrast, Brightness, RGB GammaStandard VideoUp to 28 via UNIVERSAL DVI 1Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 1Up to 10 via UNIVERSAL DVI 1Up to 10 via UNIVERSAL DVI 2YU/YPbPrUp to 56 via BNC (4 input module) 1Up to 56 via BNC (4 input module) 2SD/HD/3G-SDIUp to 28 via BNC 1Up to 8 via BNC 24K30Up to 14 via HDMI 1Up to 14 via HDMI 1 | | Up to 28 (HDMI & HDCP compliant) High Density ¹ |
| R-G-B Level0.7 Vp-pDVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO®3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo InputsContrast, Brightness, RGB GammaStandard Video InputsUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 28 via UNIVERSAL DVI 2SD/HD-SDIUp to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 1 Up to 8 via BNC 2SD/HD/3G-SDIUp to 28 via HDMI 1 Up to 8 via HDMI 24K60Up to 14 via HDMI 1 | | |
| DVI SignalsPC to 1920x1200, HDTV to 1080/60p w/EDIDAnalog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO*3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsTelevision StandardsNTSC, PALComposite VideoUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 1 Up to 8 via BNC 2SD/HD/3G-SDIUp to 28 via HDMI 1 Up to 8 via HDMI 24K60Up to 14 via HDMI 1 | Analog format | RGBHV, RGBS, RGsB, YPbPr |
| Analog SignalsPC to 1920x1080, HDTV to 1080/60pSize and PositionUser AdjustableSettings MemoryNon-VolatileConversion TechnologyProprietary – CORIO®3ColorRGB/DV//HDMI/ YPbP 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterContrast, Brightness, RGB GammaStandard Video InputsTelevision StandardsNTSC, PALComposite VideoUp to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2SD/HD-SDIUp to 28 via BNC 1 Up to 8 via BNC 2Up to 8 via HDMI 1 Up to 14 via HDMI 14K60Up to 14 via HDMI 1 | R-G-B Level | 0.7 Vp-p |
| Size and Position User Adjustable Settings Memory Non-Volatile Conversion Technology Proprietary – CORIO*3 Color RGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0 Max. Sampling Rate 162MHz Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Comb Filter Adaptive Video Comb Filter Contrast, Brightness, RGB Gamma Standard Video Inputs Contrast, Brightness, RGB LDVI 1 Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 VU/ YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 Up to 10 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 28 via BNC 1 Up to 28 via BNC 2 4K30 Up to 28 via HDMI 1 Up to 34 via HDMI 1 Up to 34 via HDMI 1 | DVI Signals | PC to 1920x1200, HDTV to 1080/60p w/EDID |
| Settings Memory Non-Volatile Conversion Technology Proprietary – CORIO®3 Color RGB/DVI/HDMI/YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0 Max. Sampling Rate 162MHz Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via HDMI 1 Up to 8 via BNC 2 Up to 8 via HDMI 1 Up to 34 via HDMI 1 Up to 34 via HDMI 1 Up to 4 via HDMI 1 Up to 14 via HDMI 1 | | |
| Conversion TechnologyProprietary – CORIO®3ColorRGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0Max. Sampling Rate162MHzFirmware MemoryUpgradeable via download.Video Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo Comb FilterAdaptiveVideo AdjustmentsContrast, Brightness, RGB GammaStandard Video InputsUp to 28 via UNIVERSAL DVI 1Composite VideoUp to 28 via UNIVERSAL DVI 2YC (S-Video)Up to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 28 via UNIVERSAL DVI 2YUV /YPbPrUp to 56 via BNC 4 input module) 1Up to 16 via BNC (4 input module) 1Up to 28 via BNC 1Up to 8 via BNC 24K30Up to 14 via HDMI 14K60Up to 14 via HDMI 1 | Size and Position | User Adjustable |
| Color RGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0 Max. Sampling Rate 162MHz Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Comb Filter Adaptive Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 Up to 28 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 56 via BNC 4 input module) 1 Up to 16 via BNC (4 input module) 1 Up to 28 via BNC 1 Up to 8 via BNC 2 Up to 8 via BNC 2 4K30 Up to 14 via HDMI 1 Up to 14 via HDMI 1 Up to 14 via HDMI 1 | Settings Memory | Non-Volatile |
| Max. Sampling Rate 162MHz Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 VC (S-Video) VU/ YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 56 via BNC (4 input module) 1 Up to 56 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via HDMI 1 Up to 8 via BNC 2 Up to 8 via HDMI 1 Up to 8 via HDMI 1 Up to 14 via HDMI 1 | Conversion Technology | Proprietary – CORIO®3 |
| Firmware Memory Upgradeable via download. Video Comb Filter Adaptive Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via HDMI 1 Up to 8 via BNC 2 4K30 Up to 14 via HDMI 1 | Color | RGB/DVI/HDMI/ YPbPr 24-bit 4:2:0, SDI 20-bit 4:2:0 |
| Video Comb Filter Adaptive Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via HDMI 1 Up to 8 via BNC 2 4K30 Up to 14 via HDMI 1 4K60 Up to 14 via HDMI 1 | Max. Sampling Rate | 162MHz |
| Video Adjustments Contrast, Brightness, RGB Gamma Standard Video Inputs Television Standards Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 Up to 28 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 8 via BNC 2 Up to 8 via BNC 2 4K30 Up to 14 via HDMI 1 Up to 14 via HDMI 1 | Firmware Memory | Upgradeable via download. |
| Standard Video Inputs Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 8 via BNC 2 Up to 8 via BNC 2 4K30 Up to 14 via HDMI 1 Up to 14 via HDMI 1 | Video Comb Filter | Adaptive |
| Television Standards NTSC, PAL Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 8 via BNC 2 SD/HD/3G-SDI Up to 28 via HDMI 1 Up to 8 via HDMI 1 4K60 Up to 14 via HDMI 1 | Video Adjustments | Contrast, Brightness, RGB Gamma |
| Composite Video Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 1 Up to 56 via BNC (4 input module) 1 Up to 28 via BNC 1 Up to 8 via BNC 2 4K30 Up to 32 via HDMI 1 Up to 14 via HDMI 1 | Standard Video Inputs | |
| Up to 10 via UNIVERSAL DVI ² YC (S-Video) Up to 28 via UNIVERSAL DVI ¹ Up to 10 via UNIVERSAL DVI ² YUV /YPbPr Up to 28 via UNIVERSAL DVI ² Up to 10 via UNIVERSAL DVI ² SD/HD-SDI Up to 56 via BNC (4 input module) ¹ Up to 16 via BNC (4 input module) ² SD/HD/3G-SDI Up to 28 via BNC ² Up to 8 via BNC ² 4K30 Up to 14 via HDMI ¹ Up to 14 via HDMI ¹ | Television Standards | NTSC, PAL |
| YC (S-Video) Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 YUV /YPbPr Up to 28 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via BNC 1 Up to 8 via BNC 2 4K30 Up to 34 via HDMI 1 Up to 14 via HDMI 2 | Composite Video | Up to 28 via UNIVERSAL DVI ¹ |
| Up to 10 via UNIVERSAL DVI ² YUV /YPbPr Up to 28 via UNIVERSAL DVI ¹ Up to 10 via UNIVERSAL DVI ² SD/HD-SDI Up to 56 via BNC (4 input module) ¹ Up to 16 via BNC (4 input module) ² SD/HD/3G-SDI Up to 28 via BNC ¹ Up to 8 via BNC ² 4K30 Up to 34 via HDMI ¹ Up to 14 via HDMI ¹ | | Up to 10 via UNIVERSAL DVI ² |
| YUV /YPbPr Up to 28 via UNIVERSAL DVI 1 Up to 10 via UNIVERSAL DVI 2 SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via BNC 1 Up to 8 via BNC 2 4K30 Up to 8 via HDMI 1 Up to 8 via HDMI 2 4K60 Up to 14 via HDMI 1 | YC (S-Video) | Up to 28 via UNIVERSAL DVI ¹ |
| Up to 10 via UNIVERSAL DVI ² SD/HD-SDI Up to 56 via BNC (4 input module) ¹ Up to 16 via BNC (4 input module) ² SD/HD/3G-SDI Up to 28 via BNC ¹ Up to 8 via BNC 2 4K30 Up to 28 via HDMI 1 Up to 34 via HDMI 2 4K60 Up to 14 via HDMI 1 | | Up to 10 via UNIVERSAL DVI ² |
| SD/HD-SDI Up to 56 via BNC (4 input module) 1 Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via BNC 1 Up to 8 via BNC 2 4K30 Up to 28 via HDMI 1 Up to 3 via HDMI 2 4K60 Up to 14 via HDMI 1 | YUV /YPbPr | Up to 28 via UNIVERSAL DVI ¹ |
| Up to 16 via BNC (4 input module) 2 SD/HD/3G-SDI Up to 28 via BNC 1 Up to 8 via BNC 2 Up to 8 via HDMI 1 Up to 28 via HDMI 1 Up to 8 via HDMI 2 4K60 Up to 14 via HDMI 1 | | Up to 10 via UNIVERSAL DVI ² |
| SD/HD/3G-SDI Up to 28 via BNC 1 Up to 8 via BNC 2 4K30 Up to 28 via HDMI 1 Up to 8 via HDMI 2 4K60 Up to 14 via HDMI 1 | SD/HD-SDI | Up to 56 via BNC (4 input module) ¹ |
| Up to 8 via BNC ² 4K30 Up to 28 via HDMI ¹ Up to 8 via HDMI ² 4K60 Up to 14 via HDMI ¹ | | Up to 16 via BNC (4 input module) ² |
| 4K30 Up to 28 via HDMI ¹ Up to 8 via HDMI ² 4K60 Up to 14 via HDMI ¹ | SD/HD/3G-SDI | Up to 28 via BNC ¹ |
| Up to 8 via HDMI ² 4K60 Up to 14 via HDMI ¹ | | Up to 8 via BNC ² |
| 4K60 Up to 14 via HDMI ¹ | 4K30 | Up to 28 via HDMI ¹ |
| | | Up to 8 via HDMI ² |
| Up to 4 via HDMI ² | 4K60 | Up to 14 via HDMI ¹ |
| | | Up to 4 via HDMI ² |

| Video Outputs | |
|---------------------------|---|
| YUV /YPbPr | Up to 28 via DVI-I ¹ |
| | Up to 10 via UNIVERSAL DVI ² |
| HD/3G-SDI | Up to 28 via BNC ¹ |
| | Up to 10 via BNC ² |
| HDBaseT | Up to 28 via RJ45 ¹ |
| 1220001 | Up to 10 via RJ45 ² |
| 4K30 | Up to 14 via HDMI ¹ |
| 1100 | Up to 5 via HDMI ² |
| Standard UD Basalutions s | upported (HDMI, DVI, YPbPr, SDI) |
| 720p (1280x720) | (23.98, 24, 25 SDI only), 29.97, 30, 50, 59.94, 60Hz |
| 1 1 7 | 59.94, 60Hz |
| 1035i (1920x1035) | |
| 1080i (1920x1080) | 50, 59.94, 60Hz |
| 1080p (1920x1080) | 23.98, 24, 25, 29.97, 30Hz |
| 1080p (1920x1080) | 50, 59.94, 60Hz |
| 3G/HD/SD-SDI | |
| SMPTE259M-C | 270Mbps < 0.1UI jitter |
| (SD-SDI Video) | 525/625Line |
| SMPTE292M | 1.485/1.4835Gbps < 0.2 UI jitter |
| (HD-SDI Video) | 720p, 1035i, 1080i, 1080p |
| SMPTE424M | 2.97/2.967Gbps < 0.3 UI jitter |
| (3G-SDI Video) | 1080p 50/59.94/60 |
| Control Methods | |
| RS-232 | via D9 Female Connector |
| IP Interface | RJ45 Connector |
| Warranty | |
| Limited Warranty | 5 Years Parts and Labor |
| Regulatory Compliance | |
| Main unit | FCC, CE, RoHS, UL |
| Mechanical | |
| Size (H x W x D) | 178 x 482 x 334mm (7.0" x 19.0" x 13.1") 1 |
| 512e (11 x W x D) | 44 x 482 x 334mm (1.73" x 19.0" x 13.1") ² |
| Weight (Net) | 15Kg (33 lbs) (with redundant PSU) ¹ |
| weight (Net) | 5 |
| For the second state | 5Kg (11.03 lbs) ² |
| Environmental | |
| Operating Temperature | 0° to +40° C (+32° to +104° F) |
| Operating Humidity | 10% to 85%, Non-condensing |
| Storage Temperature | -10° to +70° C (+14° to +158° F) |
| Storage Humidity | 10% to 85%, Non-condensing |
| MTBF | Approximately 50,000 hours |
| BTU | 1024 BTU/hr 1, 427 BTU/hr 2 |
| Power Requirement | |
| Power Consumption | Maximum fully populated - 300 watts ¹ , 125 watts ² |
| Internal Power Supply | 110v to 240v auto-detecting |
| Redundancy | Optional Internal Hot Swap PSU |
| Accessories Included | |
| 1x Operations Manual | Supplied USB Drive |
| 1x Power cable | US, UK, Euro or AU |
| PC Control Software | Downloadable from Website |
| Optional Accessories | See list above and check website for latest list |
| | |
| | |

CORIOmaster ¹, CORIOmaster mini ²

Specifications subject to change without notification



sales@tvone.com