

CORIOview C2-6104A

4 Window DVI-U Video Processor



Key Features C2-6104A

- 4-window Processor
- 4 high quality CORIO®2 scaling engines.
- 5 DVI-U inputs
- 5th input for reference, background or cascading multiple-units
- 4x Internal Still Image Stores
- DVI-D I/O support to 1920x1200, 1080p@60Hz
- DVI-A I/O support to 2048x2048, 1080p@60Hz
- Analog Input supports RGBHV, RGBS, RGsB, YPbPr, CV
- 10 user-definable presets
- Motion adaptive de-interlacing & noise reduction for YUV & YPbPr inputs
- · Color borders and source labeling
- · Zoom up to 10X with Full Positioning
- Image Shrink to 10% with Full Positioning
- · Per-pixel or percentage scaling
- Autoset Automatic analog picture sizing
- · Chromakey, Lumakey, Genlock & Mix
- Front panel includes LCD, menu control and quick-setup features
- Control via RS-232/RS-422/RS-485, Ethernet or Front Panel
- CORIOtools Suite compatible
- Optional modules (e.g. for Tally I/O)
- 1RU rack-mount case

CORIOview C2-6104A 4-Window DVI-U Processor is based on TV One's exclusive CORIO®2 technology and has five DVI-U inputs (DVI-U is the same as a DVI-I connection but with the additional flexibility of accepting Composite video signals) to place up to 4 sizeable windows on a single DVI-I output (one input is provided for cascade or background usage only). Each window is powered by a CORIO®2 scaler providing full PIP flexibility.

DVI-D resolutions up to 1920x1200@60Hz and 1080p are supported along with analog DVI-A (RGBHV/YUV/ YPbPr/CV via optional HD-15 or BNC breakout adaptor) resolutions up to 2048x2048 at virtually any refresh rate. Virtually all computer signal formats are accommodated. High performance de-interlacing with motion-adaptive noise reduction provides input compatibility with YUV, YPbPr and CV sources such as 525i, 625i, 720p, 1080i and 1080p. Custom resolutions can also be added quickly and easily using available software.

All settings are stored in non-volatile memory and are retained even when power is switched off. Ten user defined presets (controllable directly from the front panel or external communications) are also available to customize settings for various applications. A built-in LCD and menu system aids quick setup. Functions can be controlled via the front panel Push Buttons, RS-232/ RS-422/ RS-485 or Ethernet.

Color borders and source labeling are also provided for each window. Four Still Image Stores are built into the unit which can each display one of ten user loadable graphic images to be used in place of an input. The 5th input is available for use as a background to the 4 windows, or as a cascade input from another CORIOview unit – thus adding 4 more windows per unit.

Variable Zoom to 10X allows you to enlarge any part of the graphic image to fill the entire computer screen and position controls allow you to move around to any area desired. Variable Shrink to as little as 10% allows fitting multiple images next to each other, with full positional controls.

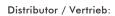
Advanced Features include Genlock, Chromakey, Lumakey and Mixing. The Key Mode allows any window to be keyed over any other with variable priority / layer control. The keyed image may be faded in and out. Due to the 4:4:4 sampling format, precise keying at the pixel level can be achieved.

CORIOtools Suite integration

The CORIOtools Suite integrates fully with both the CORIOview C2-6204 and C2-6104A. Amongst its many useful applications is the ability to visually label each input. This allows the operator to keep track of which window relates to which input - particulary useful when cascading units. Optional modules such as Tally I/O (with UMD support) can also be fitted.



Multiviewers





Still Image Store

The CORIOview Multiviewers have four Still Image Stores which can each display one of ten user loadable graphic images in place of an input. A stored user image such as a custom logo or test card can be keyed, scaled and positioned over the full screen image. Keyed images can be faded in and out, and due to its 4:4:4 sampling format, precise keying at pixel level can be achieved.

In the example to the right, input 1 has been used to insert a keyed logo from one of the units four Still Image Stores.

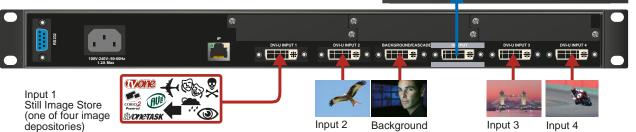






C2-6104 WFX 2009 Best Video Processor Award





C2-6104A Specifications Color Resolution 24-bit (16.8 Million Colors) 162MHz Sampling Rate Inputs Digital Sampling 24-bit, 4:4:4 format Signal Type 5x DVI-U via DVI-I Connector DVI I/O **HDCP** Compliant Digital DVI-D Format: Firmware Memory Flash, Upgradeable via RS-232 Max HD Resolution 1080p@60Hz R-G-B Levels Contrast, Phase Analog Video Adjust Max PC Resolution 1920x1200@60Hz **Control Methods** Analog DVI-A Format: NTSC, PAL, PAL-M, PAL-N, SECAM via Front Panel Buttons & LCD Local Television Standards Max HDTV Resolution 1080p@60Hz 2048x2048 RS-232/RS-485/RS-422 via D9 Female Connector Ethernet (TCP/IP) Max PC Resolution Max Horiz Scan Rate 150KHz Warranty RGBHV, RGBS, RGsB, YPbPr, CV Limited Warranty Signal Format 5 Years Parts and Labor TTL Level, 10KΩ, Pos or Neg **Regulatory Compliance** Sync Términation Main Units FCC, CE, RoHS R-G-B Level Range 0.5-2.0 Vp-p Power Supply UL, CUL, CE, PSE, GS, RoHS Scan Rate Detection Automatic Mechanical Output Desktop Case (HWD) 44x432x200mm (1.75"x17"x7.9") Signal Type Digital DVI-D Format: 1x DVI-I via DVI-I Connector 44x482x200mm (1.75"x19"x7.9") With Rack Ears (HWD) Weight (Net) 3 Kg (6.5 lb) 1080p@60Hz Max HD Resolution Environmental Max PC Resolution 1920x1200@60Hz Operating Temperature Operating Humidity 0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F) Analog DVI-A Format: Max HDTV Resolution 1080p@60Hz Storage Temperature 2048x2048 Max PC Resolution Storage Humidity 10% to 85%, Non-condensing Any to 250Hz Vertical Refresh Rate **Power Requirement** Signal Format RGBHV, RGBS, RGsB, YPbPr Internal Power Supply 100-240VAC, 50-60Hz, 50W R-G-B Level 0.7 Vp-p Accessories Included **Audio** 1x AC Power Cord 6' (2m) US, UK or Euro Embed / De-Embed HDMI - via DVI connector 1x VGA to DVI Adapter ZDH-2040 General 1x BNC to DVI Adapter ZDC-2050 Size and Position Automatic via AutoSet or Manual 1x Operations Manual User-Definable Presets Image Size 2 Fars and 4 Screws Image Freeze One Video Frame 1x Rack mount Kit 1x Control Software Settings Memory Downloadable from website Non-Volatile Variable to 10X Zoom **Product Item Numbers** Zoom Range CORIOview C2-6104 Quad-PIP DVI-U Scaler Shrink Range Variable to 10% Image Mirroring Horizontal and/or Vertical **Optional Accessories** Rear rack rail supports for 24" to 32" deep racks Horizontal Filtering RM110 Full Digital YPbPr de-interlacing Motion adaptive + noise reduction ZDH-2038 DVI-I Male to 5-BNC Female Film Mode (525i/1080i) 3:2 Pull Down Detection ZDC-2050 DVI-A to BNC Female Conversion Technology Proprietary - CORIO®2 ZDH-2040 DVI-I Male to VGA Female Frame Rate Conversion Frame add/drop C2M-TALLY Tally/UMD module Control Input/ Output Input Output

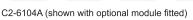


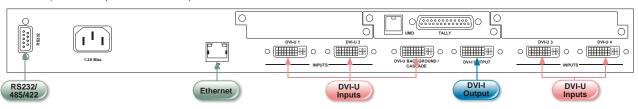












Distributor / Vertrieb:



CORIOview C2-6204

4 Window 3G-SDI Multiviewer



Key Features C2-6204

- 4-window Processor
- 4 high quality CORIO®2 scaling engines.
- 4 3G-SDI inputs with re-clocked loop through
- 5th input (DVI-I) for background or cascading multiple-units
- 4x Internal Still Image Stores
- DVI-D I/O support to 1920x1200, 1080p@60Hz
- DVI-A I/O support to 2048x2048, 1080p@60Hz
- SDI Output support, SD/HD/3G
- Analog supports RGBHV, RGBS, RGsB, VPhPr
- 10 user-definable presets
- Motion adaptive de-interlacing & noise reduction for YUV & YPbPr inputs
- · Color borders and source labeling
- · Zoom up to 10X with Full Positioning
- Image Shrink to 10% with Full Positioning
- · Per-pixel or percentage scaling
- · Autoset Automatic analog picture sizing
- Chromakey, Lumakey, Genlock & Mix
- Up to 4 stereo audio bars with color graduations available per window.
- Front panel includes LCD, menu control and quick-setup features
- Control via RS-232/RS-422/RS-485, Ethernet or Front Panel
- · CORIOtools Suite compatible
- Optional modules (e.g. for Tally I/O)
- 1RU rack-mount case

CORIOview C2-6204 4-Window 3G SDI Processor is based on TV One's exclusive CORIO®2 technology and has four 3G SDI inputs plus a DVI-I input (for cascade or background use) to place up to 4 sizeable windows on a single DVI-I / 3G SDI output. Each window is powered by a CORIO®2 scaler providing full PIP flexibility.

3G SDI resolutions up to 1080P/60 are supported. High performance de-interlacing with motion-adaptive noise reduction are available for interlaced sources. The unit provides a DVI-I output as well as a duplicate 3G SDI capable output.

All settings are stored in a non-volatile memory and are retained even when power is switched off. A built-in LCD and menu system aids quick setup allowing functions to be controlled via the front panel Push Buttons, or alternatively via RS-232/ RS-422/RS-485 or Ethernet.

Variable Zoom to 10X allows you to enlarge any part of the graphic image to fill the entire computer screen and position controls allow you to move around to any area desired. Variable Shrink to as little as 10% allows fitting multiple images next to each other, with full positional controls.

Advanced Features include Genlock, Chromakey, Lumakey and Mixing. The Key Mode allows any window to be keyed over any other with variable priority / layer control. The keyed image may be faded in and out. Due to the 4:4:4 sampling format, precise keying at the pixel level can be achieved.

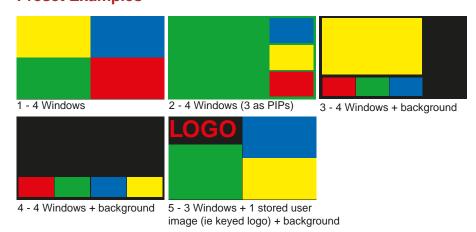
Each window can also have audio bars present, showing the activity of any audio in the SDI source signal. Up to 4 stereo audio bars may be displayed in each window. Different colors show activity at certain amplitudes of signal.

User-defineable Presets

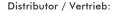
Ten user defined presets (controllable directly from the front panel or external communications) are available to customize settings for various applications. The 4 scaleable windows can be positioned and layered anywhere on the output monitor. Colored borders and source labelling are also provided for each window. Four Still Image Stores are built into the unit which can each display one of ten user loadable graphic images to be used in place of an input. The fifth input can be used for a background color, unscaled video or for cascading.



Preset Examples



Multiviewers





Cascading 2 or more units

Several CORIOview Multiviewer units can be cascaded together to expand the number of images displayed. This example shows the combination of two units to provide eight scaled and positioned images from eight separate sources over an unscaled background.





In cascading the output from Unit 1 is fed into the Background/ cascade input of Unit 2



C2-6204 Specifications

Inputs 4x 3G SDI via BNC Connector Signal Type 1 x DVI-I via DVI Connector (5th input)

SDI Format: 3G, HD, SD SDI SMPTE 259M, SMPTE 392M, SMPTE 425M with

re-clocked loop through

Digital DVI-D Format: 1080p@60Hz 1920x1200@60Hz Max HD Resolution Max PC Resolution

Analog DVI-A Format: 1080p@60Hz Max HDTV Resolution Max PC Resolution 2048x2048 150KHz Max Horiz Scan Rate

RGBHV. RGBS. RGsB. YPbPr Signal Format Sync TTL Level, 10KΩ, Pos or Neg Termination

75Ω R-G-B Level Range 0.5-2.0 Vp-p Scan Rate Detection Automatic Output

Signal Type 1x DVI-I via DVI-I Connector 1 x 3G SDI via BNC Connector

SDI Format: 3G, HD, SD SDI SMPTE 259M, SMPTE 392M, SMPTE 425M

Digital DVI-D Format: 1080p@60Hz Max HD Resolution Max PC Resolution 1920x1200@60Hz

Analog DVI-A Format: Max HDTV Resolution 1080p@60Hz 2048x2048 Max PC Resolution Vertical Refresh Rate Any to 250Hz

Signal Format RGBHV, RGBS, RGsB, YPbPr

R-G-B Level 0.7 Vp-p Audio

Embed / De-Embed SDI / HDMI - via DVI connector General

Size and Position Automatic via AutoSet or Manual **User-Definable Presets** Image Size One Video Frame Image Freeze Settings Memory Non-Volatile Variable to 10X Zoom 700m Range Shrink Range Variable to 10% Image Mirroring Horizontal and/or Vertical

Horizontal Filtering Full Digital YPbPr de-interlacing

Film Mode (525i/1080i) Conversion Technology Proprietary - CORIO®2 Frame Rate Conversion Frame add/drop Color Resolution 24-bit (16.8 Million Colors) Sampling Rate

Digital Sampling DVI I/O Firmware Memory

Flash, Upgradeable via RS-232 Analog Video Adjust R-G-B Levels Contrast, Phase On Screen Display Control Methods

Local RS-232/RS-485/RS-422 via D9 Female Connector Ethernet (TCP/IP) R.145

Warranty Limited Warranty

Regulatory Compliance Main Units

Power Supply Mechanical

Desktop Case (HWD) With Rack Ears (HWD) Weight (Net)

Environmental Operating Temperature

Operating Humidity
Storage Temperature Storage Humidity **Power Requirement** Internal Power Supply Accessories Included 1x AC Power Cord

2x VGA to DVI Adapters TBC 1x Operations Manual

1x Rack mount Kit 1x Control Software **Product Item Numbers** CORIOview C2-6204 Optional Accessories ZDH-2038

ZDH-2040 C2M-TALLY Motion adaptive + noise reduction

3:2 Pull Down Detection 162MHz 24-bit, 4:4:4 format HDCP Compliant

4 Stereo audio level bars per window

via Front Panel Buttons & LCD

5 Years Parts and Labor

FCC, CE, RoHS UL, CUL, CE, PSE, GS, RoHS

44x432x200mm (1.75"x17"x7.9")

44x482x200mm (1.75"x19"x7.9") 3.1Kg (6.8 lb)

0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F) 10% to 85%, Non-condensing

100-240VAC, 50-60Hz, 50W

6' (2m) US, UK or Euro

2 Ears and 4 Screws Downloadable from website

3G SDI Multiviewer

DVI-I Male to 5-BNC Female DVI-I Male to VGA Female Tally/UMD module









