

C2-6104A

CORIOview Multi-Window Processor

Key Features

- 4-Window Processor
- 4x High Quality CORIO®2 Scaling Engines
- 5x DVI-U inputs
- 5th input for reference, background or cascading of multiple units
- HDMI compatible Inputs and Output
- HDCP compatible
- 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, YC and CV
- 10 User-definable Presets for quick setup
- Motion Adaptive De-interlacing and Noise Reduction for YUV and YPbPr inputs
- Color Borders and Source Labeling
- Variable Image Zoom to 10X and Shrink to 10%
- Per-pixel or Percentage Scaling Control
- Autoset - Automatic Analog Picture Sizing
- Chromakey, Lumakey, Genlock and Mix
- Front Panel includes LCD, Menu Control and Quick- Setup features
- Control via RS-232/RS-422/RS-485, Ethernet or Front Panel
- CORIO Tool Suite compatible
- Optional modules (e.g. for Tally input/output)
- 1RU rack-mount case



Overview

CORIOview C2-6104A 4-Window DVI-U Processor is based on tvONE's exclusive CORIO®2 technology and has five HDCP compatible DVI-U inputs (DVI-U is the same as a DVI-I connection but with the additional flexibility of accepting Composite and S-Video signals) to place up to 4 sizeable windows on a single DVI-I output. One additional 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/YC/CV via optional HD-15 or 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, YC 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.

The CORIO® Tool Suite integrates fully with the unit and most third party control systems interface directly with the entire C2 range of products. Optional modules such as Tally I/O (with UMD support) can also be fitted.

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.

The unit is housed in a 1RU case with rack mount ears provided and is powered from a standard 110-240v supply.

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Specifications

Inputs Signal Type 5x DVI-U via DVI-I Connector Digital DVI-D Format: Max HD Resolution 1080p@60Hz Max PC Resolution 1920x1200@60Hz Analog DVI-A Format: Television Standards NTSC, PAL, PAL-M, PAL-N, SECAM Max HDTV Resolution 1080p@60Hz Max PC Resolution 2048x2048 Max Horiz Scan Rate 150KHz Signal Format RGBHV, RGBS, RGsB, YPbPr, YC, CV Sync TTL Level, 10KΩ, Pos or Neg Termination 75Ω R-G-B Level Range 0.5-2.0 Vp-p Scan Rate Detection Automatic		Control Methods Local via Front Panel Buttons & LCD RS-232/RS-485/RS-422 via D9 Female Connector Ethernet (TCP/IP) RJ45 Warranty Limited Warranty 5 Years Parts and Labor Regulatory Compliance Main Units FCC, CE, RoHS Power Supply UL, CUL, CE, PSE, GS, RoHS Mechanical Desktop Case (HWD) 44x420x200mm (1.75"x17"x7.9") With Rack Ears (HWD) 44x482x200mm (1.75"x19"x7.9") Weight (Net) TBA Environmental Operating Temperature 0° to +50° C (+32° to +122° 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 Power Requirement Internal Power Supply 100-240VAC, 50-60Hz, 50W Power Consumption Maximum load 29-watts Thermal Dissipation Maximum output 98-BTU/Hr Ambient Noise Sound Pressure Level 36dB (A) @ 1 m Accessories Included 1x AC Power Cord 6' (2m) US, US, Euro or AU 1x VGA to DVI Adapter ZDH-2040 1x BNC to DVI Adapter ZDC-2050 1x Operations Manual 1x Rack mount Kit 2 Ears and 4 Screws 1x Control Software Downloadable from website Product Item Numbers CORIOview C2-6104A Quad-PIP DVI-U Scaler Optional Accessories RM110 Rear rack rail supports for 24" to 32" deep racks ZDH-2038 DVI-I Male to 5-BNC Female ZDC-2050 DVI-A to BNC Female ZDH-2040 DVI-I Male to VGA Female C2M-TALLY Optional modules (e.g. Tally)	
Output Signal Type 1x DVI-I via DVI-I Connector Digital DVI-D Format: Max HD Resolution 1080p@60Hz Max PC Resolution 1920x1200@60Hz Analog DVI-A Format: Max HDTV Resolution 1080p@60Hz Max PC Resolution 2048x2048 Vertical Refresh Rate Any to 250Hz Signal Format RGBHV, RGBS, RGsB, YPbPr R-G-B Level 0.7 Vp-p General HDCP compatible Size and Position Automatic via AutoSet or Manual Image Size User-Definable Presets Image Freeze One Video Frame Settings Memory Non-Volatile Zoom Range Variable to 10X Zoom Shrink Range Variable to 10% Image Mirroring Horizontal and/or Vertical Horizontal Filtering Full Digital YPbPr de-interlacing Motion adaptive + noise reduction Film Mode (525i/1080i) 3:2 Pull Down Detection Conversion Technology Proprietary – CORIO®2 Frame Rate Conversion Frame add/drop Color Resolution 24-bit (16.8 Million Colors) Sampling Rate 162MHz Digital Sampling 24-bit, 4:4:4 format Firmware Memory Flash, Upgradeable via RS-232 Analog Video Adjust R-G-B Levels Contrast, Phase			

Panel Drawings

