

# C2-6204

## CORIOview Multi-Window Processor

### Key Features

- 4-Window Processor
- 4x High Quality CORIO®2 Scaling Engines
- 4x 3G SDI inputs with re-clocked loop-thru
- 4x Internal Still Image Stores
- 5th input (DVI-I) for background or cascading multiple units
- SDI support for SD/HD/3G-SDI 1080p@60Hz
- DVI-D I/O support to 1920x1200,1080p@60Hz
- DVI-A I/O support to 2048x2048, 1080p@60Hz
- Analog supports RGBHV, RGBS, RGsB, YPbPr
- 10 User-definable Presets for quick setup
- Motion Adaptive De-interlacing and Noise Reduction
- Audio monitoring via colored bars
- 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
- CORIOtools Suite compatible
- Optional modules (e.g. for Tally input/output)
- 1RU rack-mount case



### Overview

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 window, 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 1080p60 are supported. High performance de-interlacing with motion-adaptive noise reduction are available for interlaced SDI and YPbPr sources. The unit provides a DVI-I output as well as a duplicate 3G-SDI capable output.

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 window source, background to the 4 windows, or as a cascade input from another CORIOview unit – thus adding 4 more windows per unit.

The CORIOtools Suite integrates fully with the unit and most third party control systems interface directly with the entire C2 range of products.

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.

Colored stereo audio bars are available for each window, and show the live audio activity of an SDI source.

Optional modules such as Tally I/O (with UMD support) and LTC Clock decode can also be fitted.

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.

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

<b>Inputs</b>		<b>Film Mode (525i/1080i)</b>	
Signal Type	4x 3G-SDI via BNC Connector 1 x DVI-I via DVI Connector	Conversion Technology	3:2 Pull Down Detection
SDI Format:		Frame Rate Conversion	Proprietary – CORIO®2
3G, HD, SD-SDI	Auto-detect: SD-SDI (SMPTE 259M-C) HD-SDI (SMPTE 392M) 3G-SDI (SMPTE 425M-A) with re-clocked loop through 1920x1080p 60Hz	Color Resolution	Frame add/drop
Max Resolution		Sampling Rate	24-bit (16.8 Million Colors)
Digital DVI-D Format:		Digital Sampling	162MHz
Max HD Resolution	1920x1080p@60Hz	Firmware Memory	24-bit, 4:4:4 format
Max PC Resolution	1920x1200@60Hz Reduced blink	Analog Video Adjust	Flash, Upgradeable via RS-232
Analog DVI-A Format:		<b>Control Methods</b>	R-G-B Levels Contrast, Phase
Max HDTV Resolution	1080p@60Hz	Local	via Front Panel Buttons & LCD
Max PC Resolution	2048x2048	RS-232/RS-485/RS-422	via D9 Female Connector
Max Horiz Scan Rate	150KHz	Ethernet (TCP/IP)	RJ45
Signal Format	RGBHV, RGBS, RGsB, YPbPr	<b>Warranty</b>	
Sync	TTL Level, 10K Ω, Pos or Neg	Limited Warranty	5 Years Parts and Labor
Termination	75Ω	<b>Regulatory Compliance</b>	
R-G-B Level Range	0.5-2.0 Vp-p	Main Units	FCC, CE, RoHS
Scan Rate Detection	Automatic	Power Supply	UL, CUL, CE, PSE, GS, RoHS
<b>Output</b>		<b>Mechanical</b>	
Signal Type	1x DVI-I via DVI-I Connector 1x 3G-SDI via BNC Connector	Desktop Case (HWD)	44x420x200mm (1.75"x17"x7.9")
SDI Format:		With Rack Ears (HWD)	44x482x200mm (1.75"x19"x7.9")
3G, HD, SD-SDI	SD-SDI (SMPTE 259M-C)	Weight (Net)	3.08kg / 6 lbs 13 oz
HD-SDI (SMPTE 392M)	3G-SDI (SMPTE 425M-A)	<b>Environmental</b>	
Digital DVI-D Format		Operating Temperature	0° to +50° C (+32° to +122° F)
Max HD Resolution	1080p@60Hz	Operating Humidity	10% to 85%, Non-condensing
Max PC Resolution	1920x1200@60Hz	Storage Temperature	-10° to +70° C (+14° to +158° F)
Analog DVI-A Format		Storage Humidity	10% to 85%, Non-condensing
Max HDTV Resolution	1080p@60Hz	<b>Power Requirement</b>	
Max PC Resolution	2048x2048	Internal Power Supply	100-240VAC, 50-60Hz, 50W
Vertical Refresh Rate	Any to 250Hz	<b>Power Consumption</b>	
Signal Format	RGBHV, RGBS, RGsB, YPbPr	Maximum load	29-watts
R-G-B Level	0.7 Vp-p	<b>Thermal Dissipation</b>	
<b>General</b>		Maximum output	98-BTU/Hr
Size and Position	Automatic via AutoSet or Manual	<b>Ambient Noise</b>	
Image Size	User-Definable Presets	Sound Pressure Level	36dB (A) @ 1m
Image Freeze	One Video Frame	<b>Accessories Included</b>	
Settings Memory	Non-Volatile	1 x AC Power Cord	6' (2m) US, UK, Euro or AU
Shrink Range	Variable to 10%	1 x VGA to DVI Adapter	ZDH-2040
Image Mirroring	Horizontal and/or Vertical	1 x Operations Manual	
Zoom Range	Variable to 10X Zoom	1 x Rack mount Kit	2 Ears and 4 Screws
Horizontal Filtering	Full Digital	1 x Control Software	Downloadable from website
YPbPr de-interlacing	Motion adaptive + noise reduction	<b>Product Item Numbers</b>	
		C2-6204	CORIOview 3G-SDI Multiviewer
		<b>Optional Accessories</b>	
		RM110	Rear rack rail for 24" to 32" deep racks
		ZDH-2038	DVI-I Male to 5-BNC Female
		ZDH-2040	DVI-I Male to VGA Female
		C2M-TALLY	Tally / UMD module
		C2M-CLOCK	LTC clock module

### Panel Drawings

