

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.



Key Features of the CORIOview C2-6204

- 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



This symbol on a product indicates that it is powered by CORIO®2 technology, the most flexible video processing engine now available.

Unlike most manufacturers, who use third party chipsets to provide video conversion, TV One has developed its own proprietary technology known as CORIO®2. This frees TV One products from the constraints imposed by third parties and results in an unsurpassed degree of flexibility. Products based on third party chipsets have a feature set frozen at the introduction of the product. Since the CORIO®2 video processing engine is entirely firmware based, it can be upgraded at any time by downloading the latest firmware version from the support website and flash upgrading the unit in the field. This enables new features to be added to units many years after the initial purchase. This "obsolescence insurance" means that a CORIO®2 based product can always be upgraded to the latest version of that model.

Specifications

Inputs	
Signal Type	4x 3G-SDI via BNC Connector 1 x DVI-I via DVI Connector
SDI Format:	
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
Max Resolution	
Digital DVI-D Format:	
Max HD Resolution	1920x1080p@60Hz
Max PC Resolution	1920x1200@60Hz Reduced blnk
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Max Horiz Scan Rate	150KHz
Signal Format	RGBHV, RGBS, RGsB, YPbPr
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 1x 3G-SDI via BNC Connector
SDI Format:	
3G, HD, SD-SDI	SD-SDI (SMPTE 259M-C) HD-SDI (SMPTE 292M) 3G-SDI (SMPTE 425M-A)
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	
Size and Position	Automatic via AutoSet or Manual
Image Size	User-Definable Presets
Image Freeze	One Video Frame
Settings Memory	Non-Volatile
Shrink Range	Variable to 10%
Image Mirroring	Horizontal and/or Vertical
Zoom Range	Variable to 10X Zoom

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
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 (HW D)	44x420x200mm (1.75"x17"x7.9")
With Rack Ears (HW D)	44x482x200mm (1.75"x19"x7.9")
Weight (Net)	3.08kg / 6 lbs 13 oz
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
Accessories Included	
1x AC Power Cord	6' (2m) US, UK, Euro or AU
1x VGA to DVI Adapter	ZDH-2040
1x Operations Manual	
1x Rack mount Kit	2 Ears and 4 Screws
1x Control Software	Downloadable from website
Product Item Numbers	
C2-6204	CORIOview 3G-SDI Multiviewer
Optional Accessories	
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

