

**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 5<sup>th</sup> 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 CORIO®tool 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
- 5<sup>th</sup> 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, 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
- CORIO Tool 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

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

## Panel Drawings

