C2-6204
CORIOview Multi-Window Processor

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.

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, RGBS, 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
**C2-6204**

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### Specifications

**Inputs**
- **Signal Type**: 4x 3G-SDI via BNC Connector (SDI OUT)
- **3G, HD, SD-SDI**
  - **SDI Format**: Auto-detect: SD-SDI (SMPTE 259M-C)
  - **HD-SDI**: SMPTE 392M
  - **3G-SDI**: SMPTE 425M-A
- **Max Resolution**: 1920x1080p @60Hz
- **Max HD Resolution**: 1920x1080p @60Hz
- **Max PC Resolution**: 1920x1200 @60Hz Reduced Blink
- **Analog DVI-A Format**: 1080p @60Hz
- **Max PC Resolution**: 2048x2048
- **Max Horiz Scan Rate**: 150kHz
- **Signal Format**: RGBHV, RGBS, RGsB, YPbPr
- **Sync**: TTL Level, 10K Ω, Pos or Neg
- **Termination**: 75Ω
- **R-G-B Level Range**: 0.5-2.0 Vp-p
- **Scan Rate Automatic**:

**Output**
- **Signal Type**: 1x DVI-I via DVI-I Connector (1x 3G-SDI via BNC Connector)
- **3G, HD, SD-SDI**
- **HD-SDI (SMPTE 392M)**: SD-SDI (SMPTE 425M-A)
- **Digital DVI-D Format**: 1080p @60Hz
- **Max HD Resolution**: 1920x1080p @60Hz
- **Max PC Resolution**: 2048x2048
- **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 - CORIOview
- **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
- **Analogue 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

**Regulatory Compliance**
- **Limited Warranty**: 5 Years Parts and Labor
- **Main Units**: FCC, CE, RoHS
- **Power Supply**: UL, CUL, CE, PSE, GS, RoHS

**Mechanical**
- **Desktop Case (HWD)**: 444x420x200mm (1.75”x16.5”x7.9”)
- **Weight (Net)**: 3.08kg / 6 lbs 13 oz

**Environmental**
- **Operating Temperature**: 0°C to +50°C (+32°F to +122°F)
- **Operating Humidity**: 10% to 85%, Non-condensing
- **Storage Temperature**: -10°C to +70°C (+14°F 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**: 98 BTU/Hr

**Sound Pressure Level**
- **Ambient Noise**: 36dB (A) @ 1 m

**Accessories Included**
- **Sound Pressure Level**: 6’ (2m) US, UK, Euro or AU
- **Rack mount Kit**: ZDH-2040
- **2 Ears and 4 Screws**: Downloadable from website
- **Product Item Numbers**:
  - **C2-6204**: CORIOview 3G-SDI Multi-viewer
  - **Optional Accessories**:
    - **RM110**: Rear rack rail for 24” to 32” deep racks
    - **ZDH-2038**: DVI Male to 5-BNC Female
    - **ZDH-2040**: DVI Male to VGA Female
    - **C2M-TALLY**: Tally / UMD module
    - **C2M-CLOCK**: LTC clock module

**Panel Drawings**

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C2-6204 Specification Sheet Version 2.0

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