C2-6204

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/HDMI) for reference, background or cascading multiple units
- Parallel DVI-I/HDMI and 3G-SDI output
- Supports SDI and HDMI audio
- 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

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 deinterlacing with motion-adaptive noise reduction are available for interlaced SDI and YPbPr sources. The unit provides a DVI-I/HDMI output as well as a duplicate 3G-SDI capable output. SDI and HDMI audio can be embedded, switched or set to follow Window A only.

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 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

Inputs

Signal Type 4x 3G-SDI via BNC Connector

1x DVI-I/HDMI via DVI Connector

SDI Format:

3G. HD. SD-SDI

HD-SDI (SMPTE 392M) 3G-SDI (SMPTE 425M-A)

1920x1080p 60Hz

Max Resolution Digital DVI-D Format:

Max HD Resolution Max PC Resolution

Analog DVI-A Format: Max HDTV Resolution Max PC Resolution

Max Horiz Scan Rate Signal Format Svnc

Termination R-G-B Level Range Scan Rate Detection

Signal Type

SDI Format:

3G, HD, SD-SDI

Digital DVI-D Format Max HD Resolution

Max PC Resolution Analog DVI-A Format

Max HDTV Resolution Max PC Resolution Vertical Refresh Rate

Signal Format R-G-B Level

General

Size and Position Image Size

Image Freeze Settings Memory Shrink Range Image Mirroring

Zoom Range Horizontal Filtering

YPbPr de-interlacing Analog Video Adjust Auto-detect:

SD-SDI (SMPTE 259M-C) with re-clocked loop through

1920x1080p@60Hz

1920x1200@60Hz Reduced blnk

1080p@60Hz 2048×2048 150KHz

RGBHV. RGBS. RGsB. YPbPr TTL Level. 10K Ω . Pos or Nea

75Ω 0.5-2.0 Vp-p Automatic

1x DVI-I/HDMI via DVI-I Connector 1x 3G-SDI via BNC Connector

SD-SDI (SMPTE 259M-C) HD-SDI (SMPTE 392M)

3G-SDI (SMPTE 425M-A) 1080p@60Hz 1920x1200@60Hz

1080p@60Hz 2048x2048 Any to 250Hz

RGBHV, RGBS, RGsB, YPbPr

0.7 Vp-p

Automatic via AutoSet or Manual

User-Definable Presets One Video Frame Non-Volatile Variable to 10%

Horizontal and/or Vertical Variable to 10X Zoom

Full Digital

Motion adaptive + noise reduction R-G-B levels Contrast, Phase

Film Mode (525i/1080i) Conversion Technology Frame Rate Conversion Color Resolution Sampling Rate

Digital Sampling Firmware Memory Analog Video Adjust

Control Methods

Local

RS-232/RS-485/RS-422 Ethernet (TCP/IP)

Tally module (optional)

Warranty

Limited Warranty Regulatory Compliance

Main Units Power Supply Mechanical

Desktop Case (HWD) With Rack Ears (HWD) Weight (Net)

Environmental

Operating Temperature Operating Humidity Storage Temperature Storage Humidity

Power Requirement Internal Power Supply

Power Consumption Maximum load Thermal Dissipation

Maximum output **Ambient Noise**

Sound Pressure Level

Accessories Included 1x AC Power Cord

1 x VGA to DVI Adapter 1 x Operations Manual 1 x Rack mount Kit

1 x Control Software **Product Item Numbers**

C2-6204

Optional Accessories CMD1941

RM110 ZDH-2038 ZDH-2040

C2M-TALLY

Proprietary - CORIO®2 Frame add/drop 24-bit (16.8 Million Colors) 162MHz

3:2 Pull Down Detection

24-bit, 4:4:4 format

Flash, Upgradeable via RS-232 R-G-B Levels Contrast, Phase

via Front Panel Buttons & LCD via D9 Female Connector

RJ45

Tally and UMD support

5 Years Parts and Labor

FCC, CE, RoHS

UL, CUL, CE, PSE, GS, RoHS

44x420x200mm (1.75"x17"x7.9") 44x482x200mm (1.75"x19"x7.9")

3.08kg / 6 lbs 13 oz

0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F) 10% to 85%, Non-condensing

100-240VAC, 50-60Hz, 50W

29-watts

98-BTU/Hr

36dB (A) @ 1 m

6' (2m) US, UK, Euro or AU

ZDH-2040

2 Ears and 4 Screws Downloadable from website

3G-SDI Multiviewer

DVI Male to HDMI Female

Rear rack rail for 24" to 32" deep racks

DVI-I Male to 5-BNC Female DVI-I Male to VGA Female Tally / UMD module

Panel Drawings



