CORIOview C2-6104A 4-Window DVI-U Processor is based on TV One's exclusive CORIO®2 technology and has five DVI-U inputs (DVI-U is the same as a DVI-I connection but with the additional flexibility of accepting Composite video signals) to place up to 4 sizeable windows on a single DVI-I output (one input is provided for cascade or background usage only). Each window is powered by a CORIO®2 scaler providing full PIP flexibility.

DVI-D resolutions up to 1920x1200@60Hz and 1080p are supported along with analog DVI-A (RGBHV/YUV/YPbPr/CV via optional HD-15 or BNC breakout adaptor) resolutions up to 2048x2048 at virtually any refresh rate. Virtually all computer signal formats are accommodated. High performance de-interlacing with motion-adaptive noise reduction provides input compatibility with YUV, YPbPr and CV sources such as 525i, 625i, 720p, 1080i and 1080p. Custom resolutions can also be added quickly and easily using available software.

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

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.

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. Due to the 4:4:4 sampling format, precise keying at the pixel level can be achieved.

The unit is housed in a 1RU case with rack mount ears provided and is powered from a standard 110-240v

Key Features of the CORIOview C2-6104A

- 4-Window Processor
- 4x High Quality CORIO®2 Scaling Engines
- 5x DVI-U inputs
- 5th input for reference, background or cascading of multiple units
- 4x Internal Still Image Stores
- DVI-D I/O support to 1920x1200,1080p@60Hz
- DVI-A I/O support to 2048x2048, 1080p@60Hz
- Analog Input supports RGBHV, RGBS, RGsB, YPbPr, CV
- 10 User-definable Presets for quick setup
- Motion Adaptive De-interlacing and Noise Reduction for YUV and YPbPr inputs
- 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.
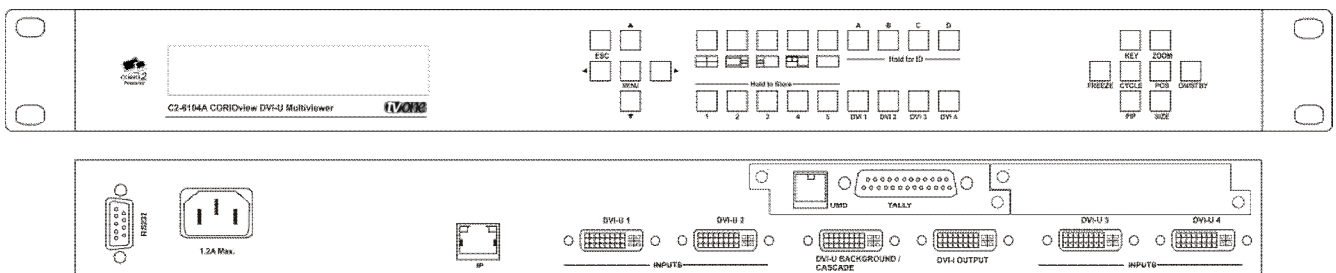
Unlike most manufacturers, who use third party chipsets to provide video conversion, TV One has developed its own proprietary technology known as CORIO®2. This frees TV One products from the constraints imposed by third parties and results in an unsurpassed degree of flexibility. Products based on third 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 form 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	5x DVI-U via DVI-I Connector

Digital DVI-D Format:

Max HD Resolution	1080p@60Hz
Max PC Resolution	1920x1200@60Hz

Analog DVI-A Format:

Television Standards	NTSC, PAL, PAL-M, PAL-N, SECAM
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Max Horiz Scan Rate	150KHz
Signal Format	RGBHV, RGBS, RGsB, YPbPr, CV
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

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
Zoom Range	Variable to 10X Zoom
Shrink Range	Variable to 10%
Image Mirroring	Horizontal and/or Vertical
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	2 Years Parts and Labor

Regulatory Compliance

Main Units	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS

Mechanical

Desktop Case (HWD)	44x420x200mm (1.75"x17"x7.9")
With Rack Ears (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight (Net)	TBA

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 or Euro
1x VGA to DVI Adapter	ZDH-2040
1x BNC to DVI Adapter	ZDC-2050
1x Operations Manual	
1x Rack mount Kit	2 Ears and 4 Screws
1x Control Software	Downloadable from website

Product Item Numbers

CORIOview C2-6104A	Quad-PIP DVI-U Scaler

Optional Accessories

RM110	Rear rack rail supports for 24" to 32" deep racks
ZDH-2038	DVI-I Male to 5-BNC Female
ZDC-2050	DVI-A to BNC Female
ZDH-2040	DVI-I Male to VGA Female
C2M-TALLY	Optional modules (e.g. Tally)

Panel Drawings

Shown with optional module fitted.