

C2-160 PCI/ISA Card Down Converter is based on TV One's exclusive CORIO®2 technology and provides high quality scan conversion from Computer or HDTV signals to standard video formats in a compact package. It handles virtually any computer resolution up to 2048x2048 at any vertical refresh rate and all HDTV resolutions up to 1080p. A wide variety of computer signal formats are available to support PC, Mac and Workstation formats. Video outputs are switchable between NTSC and PAL and are simultaneously provided in Composite and YC. A PC loop-thru is also provided.

Our exclusive AutoSet feature takes the hassle out of setup by automatically sizing and positioning the computer image to fit exactly on the video screen. All settings can be stored in non-volatile memory and are retained even when power is switched off. All the functions can be controlled via an optional Infrared Remote Control Unit or an RS-232 connection. The CORIOtools Suite integrates fully with the unit. A Windows Control Panel is provided and most third party control systems interface directly with the entire C2 range of products. An On-Screen Display is available to assist in setup.

Variable Zoom to 10X allows you to enlarge any part of the computer screen to fill the entire video screen and position controls allow you to move around to any area desired. Variable Shrink to as little as 10% allows fitting the image onto most displays. The advanced Digital Flicker Elimination circuitry and high sampling rate ensures crisp, clear images, while full bandwidth chroma sampling ensures faithfully reproduced, high resolution colors. The C2-160 plugs into a vacant slot inside a PC and receives its power from a standard Hard Drive connector within the PC.

The C2-160 also features a wide variety of additional capabilities, such as Genlock, Chromakey and Lumakey. The **Key Mode** allows computer graphics to be keyed over an external Composite or YC signal. 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 **Mix Mode** permits glitch-free mixing between the computer image and external video. The **PIP Mode** allows the computer input to be inset in a window over either of the video inputs.

The Genlock feature ensures precise synchronization of the incoming signals by providing a wide Subcarrier lock range with Subcarrier phase adjustment.

The unit is provided with a single break-out cable incorporating all of the required PC and video inputs and outputs, along with RS232.

PC Card Down Converter Model C2-160



Key Features of the C2-160

- Automatic Incoming Resolution Detection
- 1x Computer Input with Loop-thru
- Computer Resolutions to 2048x2048
- HDTV Resolutions to 1080p
- 1xCV and 1xYC (S-Video) Inputs
- Multiple Worldwide Television Standards
- 1xCV and 1xYC Outputs
- Control by RS-232 or IR Interface
- Windows Control Panel included
- CORIOtools Suite compatible
- Optional IR Remote Control
- Variable Image Zoom to 10X and Shrink to 10%
- Genlock with Subcarrier Phase Adjustment
- Mix, PIP, Chromakey and Lumakey
- AutoSet Automatic picture sizing

CORIO2

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.

CORIO 2 Powered



PC Card Down Converter



Specifications

Computer Input VGA Video Signal Type - Analog Sync Termination R-G-B Level Range Scan Rate Detection PC Resolutions HDTV Resolutions Max Horiz Scan Rate Video Inputs Composite Video YC (S-Video) Standards Supported Impedance CV/YC Decoder Comb Filter Decoding CV, YC Adjustments Sub-carrier Lock Range Sub-Carrier Phase **Video Outputs** Composite Video YC (S-Video) Computer Loop-thru **Television Standards**

Impedance

Key

Mix

PIP

General

Image Size Image Freeze

Zoom Range Shrink Range

CV/YC Encoder

Operational Modes

Pix Size and Position

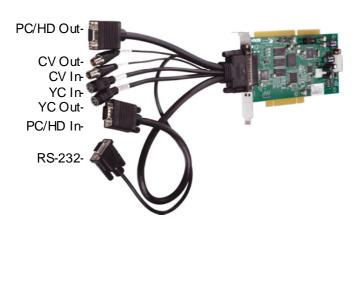
Settings Memory

(Note 1) 1 x HD-15 Male Connector RGBHV, RGBS, RGsB, YPbPr TTL Level, $10K\Omega$, Pos or Neg Auto-terminating into 75Ω 0.5-2.0 Vp-p Automatic Any up to 2048x2048 Any up to 1080p 150KHz (Note 1) 1x BNC Connector 1x 4-Pin Mini-DIN Connector NTSC, PAL 75Ω 8-bit Digital Adaptive Contrast, Bright, Saturation, Hue +/-200Hz NTSC, +/-250Hz PAL +/- 180 degrees (Note 1) 1x BNC Connector 1x 4-PIN Mini-DIN Connector 1xHD-15 Female Connector NTSC, PAL 750 8/10 bit Digital Chromakey or Lumakey

Mix PC To/From Video Variable Window Size & Pos.

Automatic AutoSet or Manual User-Definable Presets One Video Frame Non-Volatile Variable to 10X Zoom Variable to 10%

C2-160 with Breakout Cable Attached



General (Continued) Image Mirroring Horizontal Filtering Conversion Technology Color Resolution Sampling Rate Digital Sampling Firmware Memory Video Adjustments Control Methods

Model C2-160

Local Infra-Red RS-232 Interface Warranty Limited Warranty **Regulatory Compliance** PCI/ISA Card Mechanical Size (W-D) Weight (Net) Environmental Operating Temperature Operating Humidity Storage Temperature Storage Humidity **Power Requirement** 12 VDC @ 800ma Accessories Included 1x Breakout Cable 1x Operations Manual 1x Control Software **Product Item Numbers** C_{2-160} **Optional Accessories** IRC5 Note

Horizontal and/or Vertical Full Digital Proprietary – CORIO®2 24-bit (16.8 Million Colors) 108MHz 24-bit, 4:4:4 format Flash, Upgradeable via RS-232 R-G-B Levels

Via Included software Via Optional Remote Control Via D9 Female Conn. (Note 1)

5 Years Parts and Labor

FCC, CE, CSA, RoHS

100mmx204mm (4"x8") 0.14 kg (0.31 lbs)

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

Via PC Hard Drive Connector

HD-44 to Various Connectors Provided on CD Microsoft Windows Based

PCI/ISA Down Converter

Infrared Remote Control

(1) All Video and PC connections are via a breakout cable.

Sample Windows Control Panel Menus

