

Video Scalers

Model 1T-C2-750

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CORIO2 Powered

1T-C2-750 Dual DVI Scaler PLUS is based on TV One's exclusive CORIO®2 technology and has two high quality graphic scalers capable of working at full DVI video rates. The two scalers can be used to convert digital DVI-D or analog DVI-A signals to another format, with full CORIO®2 picture-in-picture flexibility.

DVI-D resolutions up to 1920x1200@60Hz and 1080p are supported along with analog DVI-A (or HD15 via optional adaptor) resolutions up to 2048x2048 at virtually any refresh rate. A wide variety of computer signal formats are available to support PC, Mac and Workstation formats.

The 1T-C2-750 can also be used as a Seamless Switcher device, enabling the user to toggle between the two DVI inputs with instantaneous cuts. Two Still Image Stores are built into the unit which can store ten graphic images each to be used in place of one or both of the DVI-I inputs to add custom logos or backgrounds.

All settings are stored in non-volatile memory and are retained even when power is switched off. Ten user defined presets (two controlled from the front panel) are also available to customize settings for various applications. An On-Screen Display is available to assist in setup. Functions can be controlled via the front panel Push Buttons, Infrared or RS-232. The CORIOtools Suite integrates fully with the unit. Windows Control Panel software is also provided and most third party control systems interface directly with the entire C2 range of products. The unit is housed in a desktop case and an optional rack mount kit holds one or two units.

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, Mixing and Dual PIP. The Key Mode allows computer graphics to be keyed over each other (one input over another). 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 PIP mode allows either input to be inset into a window over the other input. Both inputs can be placed side by side in a Dual PIP configuration.



Key Features of the 1T-C2-750

- Dual scalers
- 2x DVI-I Inputs
- 2x Internal Still Image Stores
- DVI-D I/O support to 1920x1200,1080p/60
- DVI-A I/O support to 2048x2048, 1080p/60
- Analog supports RGBHV, RGBS, RGsB & YPbPr
- Control via RS-232, IR or Front Panel
- Windows Control Panel
- CORIOtools Suite compatible
- Variable Image Zoom to 10X and Shrink to 10%
- Per-pixel or percentage scaling control
- Single and Dual PIP
- Autoset Automatic analog picture sizing
- Chromakey and Lumakey
- Genlock and Mix
- Optional IR Remote Control Unit
- Optional Single/Dual Rackmount Kit

CORIO 2

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.



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Specifications

Inputs Signal Type 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 Sync Termination R-G-B Level Range Scan Rate Detection Output Signal Type 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 Zoom Range Shrink Range Image Mirroring Horizontal Filtering Conversion Technology Frame Rate Conversion Color Resolution

2x DVI-I via DVI-I Connector 1080p@60Hz 1920x1200@60Hz

1080p@60Hz 2048x2048 150KHz RGBHV, RGBS, RGsB, YPbPr TTL Level, 10KΩ, Pos or Neg 75Ω 0.5-2.0 Vp-p Automatic

1x DVI-I via DVI-I Connector

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 10X Zoom Variable to 10% Horizontal and/or Vertical Full Digital Proprietary - CORIO®2 Frame add/drop 24-bit (16.8 Million Colors) 162MHz 24-bit, 4:4:4 format Flash, Upgradeable via RS -232 R-G-B Levels Contrast, Phase

Control Methods Local via Front Panel Buttons & OSD RS-232 Interface via D9 Female Connector Infrared Remote Warranty Limited Warranty **Regulatory Compliance** Main Units Power Supplies Mechanical Size (H-W-D) Weight (Net) Environmental Operating Temperature Operating Humidity Storage Temperature Storage Humidity 10% to 85%, Non-condensing **Power Requirement** External Power Supply 12VDC@1A Accessories Included 1x Operations Manual 1T-C2-750 1x Power Adapter **Product Item Numbers** 1T-C2-750 **Optional Accessories** IRC-5 RM-230 ZDH-2038

via IRC-5 Remote Unit 5 Years Parts and Labor FCC, CE, RoHS UL, CUL, CE, PSE, GS, RoHS 30x200x90mm(1.18"x7.87"x3.54") 0.52 kg (1.14 lbs) 0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F)

US, UK, Euro or AU

Dual-PIP DVI-I Scaler

Infrared Remote Control Single/Dual Rackmount Kit DVI Male to 5-BNC Female DVI Male to VGA Female

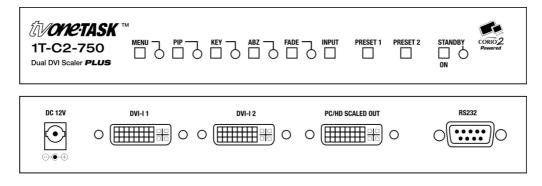
Panel Drawings

Sampling Rate

Digital Sampling

Firmware Memory

Analog Video Adjust



ZDH-2040