

## **Video Scalers**

Model 1T-C2-750



**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



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.



Model 1T-C2-750



## **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

Sampling Rate

Digital Sampling

Analog Video Adjust

Firmware Memory

2x DVI-I via DVI-I Connector

1080p@60Hz 1920x1200@60Hz

1080p@60Hz 2048x2048

150KHz

RGBHV, RGBS, RGsB, YPbPr TTL Level,  $10K\Omega$ , Pos or Neg

 $75\Omega$ 

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 RS-232 Interface 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 **Power Requirement** 

External Power Supply **Accessories Included** 

1x Operations Manual 1x Power Adapter

**Product Item Numbers** 

1T-C2-750

Optional Accessories

IRC-5 RM-230 ZDH-2038 ZDH-2040 via Front Panel Buttons & OSD

via D9 Female Connector 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) 10% to 85%, Non-condensing

12VDC@1A

1T-C2-750

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**

