

**1T-C2-750 Dual-PIP DVI-I Scaler** 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. Windows Control Panel software is 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
- 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 from 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 2x 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  
Max Horiz Scan Rate 150KHz  
Signal Format RGBHV, RGBS, RGsB, YPbPr  
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  
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 & OSD  
RS-232 Interface via D9 Female Connector  
Infrared Remote via IRC-5 Remote Unit

**Warranty**

Limited Warranty 2 Years Parts and Labor

**Regulatory Compliance**

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

**Mechanical**

Size (H-W-D) 30x200x90mm(1.18"x7.87"x3.54")  
Weight (Net) 0.52 kg (1.14 lbs)

**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**

External Power Supply 12VDC@1A

**Accessories Included**

1x Operations Manual 1T-C2-750  
1x Power Adapter US, UK or Euro

**Product Item Numbers**

1T-C2-750 Dual-PIP DVI-I Scaler

**Optional Accessories**

IRC-5 Infrared Remote Control  
RM-230 Single/Dual Rackmount Kit  
ZDH-2038 DVI Male to 5-BNC Female  
ZDH-2040 DVI Male to VGA Female

**Panel Drawings**

