

**HDMI**  
CORIO2  
COMPATIBLE  
with audio support

## 1T-C2-750

### Dual DVI/HDMI Scaler PLUS

#### Key Features

- Dual scalers
- 2x DVI-I Inputs
- HDMI compatible Inputs and Output
- Supports HDMI audio
- 2x Internal Still Image Stores
- DVI-D I/O support to 1920 x 1200, 1080p/60
- DVI-A I/O support to 2048 x 2048, 1080p/60
- Analog supports RGBHV, RGBS, RGB & YPbPr
- Control via RS-232, Front Panel and OSD
- CORIOtools Suite compatible
- Low latency - 1 to 2 frames delay
- 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
- EDID and HDCP management
- Optional Single/Dual Rackmount Kit



#### 1T-C2-750

##### Overview

The 1T-C2-750 Dual-PIP DVI/HDMI Scaler PLUS is based on tvONE's exclusive CORIO®2 technology and has two high quality graphic scalers capable of working at full DVI video rates with extremely low system latency. The two scalers can be used to convert digital DVI-D/HDMI 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 inputs with instantaneous cuts. HDMI audio can be embedded, switched or set to what is being viewed in a specific video window. 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/HDMI 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 or RS-232. CORIOtools Suite (control application) integrates fully with the unit and most third party control systems interface directly with the entire C2 range. 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 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. 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. With the inclusion of EDID and HDCP management, the 1T-C2-750 is easily integrated with 3<sup>rd</sup> party products, making it an extremely flexible solution.

# 1T-C2-750

## Dual DVI/HDMI Scaler PLUS

### Specifications

<b>Inputs</b>	
Signal Type	2x DVI-I/HDMI via DVI-I Connector
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920 x 1200@60Hz
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048 x 2048
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
<b>Output</b>	
Signal Type	1x DVI-I/HDMI via DVI-I Connector
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920 x 1200@60Hz
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048 x 2048
Vertical Refresh Rate	Any to 250Hz
Signal Format	RGBHV, RGBS, RGsB, YPbPr
R-G-B Level	0.7 Vp-p
<b>General</b>	
System Latency	1 to 2 frames delay
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
EDID management	Capture, store and emulate
HDCP management	Compatibility settings
HDMI audio support	Embed, switch and follow source
<b>Control Methods</b>	
Local	via Front Panel Buttons & OSD
RS-232 Interface	via D9 Female Connector
Infrared Remote	via IRC-5 Remote Unit
<b>Warranty</b>	
Limited Warranty	5 Years Parts and Labor
<b>Regulatory Compliance</b>	
Main Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
<b>Mechanical</b>	
Size (H-W-D)	30 x 200 x 90mm (1.18" x 7.87" x 3.54")
Weight (Net)	0.52 kg (1.14 lbs)
<b>Environmental</b>	
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
<b>Power Requirement</b>	
External Power Supply	12VDC@1A
<b>Accessories Included</b>	
1x Operations Manual	1T-C2-750
1x Power Adapter	US, UK, Euro or AU
<b>Product Item Numbers</b>	
1T-C2-750	Dual-PIP DVI-I Scaler
<b>Optional Accessories</b>	
RM-230	Single/Dual Rackmount Kit
ZDH-2038	DVI Male to 5-BNC Female
ZDH-2040	DVI Male to VGA Female
CMD1941	DVI Male to HDMI Female
ONERack	Compatible with 6RU module

### Panel Drawings

