1T-C2-750
Dual DVI Scaler PLUS

Key Features

- Dual scalers
- 2x DVI-I Inputs
- HDMI compatible Inputs and Output
- HDCP compatible
- 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
- 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
- Optional Single/Dual Rackmount Kit

1T-C2-750
Overview

The 1T-C2-750 Dual DVI 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 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.

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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

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

Control Methods

Local	via Front Panel Buttons & OSD
RS-232 Interface	via D9 Female Connector

Warranty

Limited Warranty	5 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, Euro or AU

Product Item Numbers

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

Optional Accessories

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

Panel Drawings