

1T-C2-200 Video Scaler features Up Conversion and is based on TV One's exclusive CORIO®2 technology and provides high quality up conversion from standard video formats to Computer or HDTV signals in a compact package. NTSC and PAL video standards are supported. Inputs can be Composite or YC. A computer bypass is also provided. The output is selectable as any computer resolution up to 2048x2048 at any vertical refresh rate and all HDTV resolutions up to 1080p. A wide variety of computer signal formats are available to support PC, Mac and Workstation formats.

All the functions can be controlled via the front panel Push Buttons, an Infrared Remote Control Unit or an RS-232 connection. A Windows Control Panel is provided and most third party control systems interface directly with the entire C2 range of products. An On-Screen Display is available to assist in setup.

Variable Zoom to 10X allows you to enlarge any part of the video 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 the image onto most displays. The full bandwidth chroma sampling insures faithfully reproduced, high resolution colors.

1T-C2-250 Video Scaler PLUS has all the functions and features of the 1T-C2-200 and adds a wide variety of additional capabilities, including Genlock, Chromakey, Lumakey and Mixing. The **Key Mode** allows computer graphics to be keyed over an external Composite or YC signal or visa versa. 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 **Mix Mode** permits glitch-free mixing between the computer image and external video. The **PIP Mode** allows either of the video inputs to be inset in a window over the full computer input.

1T-C2-400 PC/HD Scaler is a Cross Converter that converts between virtually any PC or HD resolution to any other PC or HD resolution. Virtually any PC resolution up to 2048x2048 and any HDTV resolution up to 1080p can be accommodated on the input or output. This unit has no Composite or YC inputs and is strictly an RGB/YPbPr Scaler.

Our exclusive AutoSet feature takes the hassle out of setup by automatically sizing and positioning the computer image to fit exactly on the video screen. All settings are stored in non-volatile memory and are retained even when power is switched off.



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



Key Features of the 1T-C2-200

- **Up Conversion**
- Automatic Incoming Resolution Detection
- 1x CV and 1x YC (S-Video) Input
- 1xRGB/YPbPr Input for Loop-thru
- Multiple Worldwide Television Standards In
- 1x RGB/YPbPr Output
- Output Resolutions to 2048x2048 and 1080p
- Control via RS-232, IR and Front Panel
- Windows Control Panel included
- Variable Image Zoom to 10X and Shrink to 10%
- Optional IR Remote Control
- Optional Single/Dual Rackmount Kit

Additional Features of the 1T-C2-250

- All features of the 1T-C2-200, plus:
- Mix, PIP, Chromakey and Lumakey
- AutoSet - Automatic picture sizing

Key Features of the 1T-C2-400

- **Cross Conversion**
- Automatic incoming resolution detection
- 1x RGB/YPbPr Input and Output
- Input/Output Resolutions to 2048x2048 and 1080p
- Control via RS-232, IR and Front Panel
- Variable Image Zoom to 10X and Shrink to 10%

freees 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.

Specifications

Video Inputs (1T-C2-200, 1T-C2-250 only)	
Television Standards	NTSC, PAL, PAL-M, PAL-N, SECAM
Composite Video	1x via BNC
YC (S-Video)	1x via 4-Pin Mini-DIN Connector
Computer Input	
RGB/YpPr (Note 1)	1x via HD15 (Loop-thru only)
Format - Analog	RGBHV, RGSB, RGsB, YPbPr
Computer Output	
Format - Analog	RGBHV, RGSB, RGsB, YPbPr
Connectors	1x HD-15 Female
R-G-B Level	0.7 Vp-p
PC Resolutions	Any up to 2048x2048
HDTV Resolutions	Any up to 1080p
Vertical Refresh Rate	Any to 250Hz
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
Color Resolution	24-bit (16.8 Million Colors)
Digital Sampling	24-bit, 4:4:4 format
Firmware Memory	Flash, Upgradeable via RS-232
General (1T-C2-200, 1T-C2-250 only)	
De-Interlacing (NTSC-PAL)	Pixel-level Motion Adaptive
Comb Filter Decoding	Adaptive
Film Mode (NTSC)	3:2 Pulldown
Video Adjustments	
1T-C2-200, 1T-C2-250	Contrast, Brightness, Saturation, Hue (NTSC), R-G-B Levels
1T-C2-400	R-G-B Levels

Operational Modes	
Key	(1T-C2-250 only) ChromaKey or Lumakey
Mix	PC to/from Video
PIP	Variable Window Size & Position
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")
1T-C2-200 Weight (Net)	0.52 kg (1.14 lbs)
1T-C2-250 Weight (Net)	0.52 kg (1.14 lbs)
1T-C2-400 Weight (Net)	0.50 kg (1.10 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	
1x Power Adapter	US, UK or Euro
Product Item Numbers	
1T-C2-200	Video Scaler
1T-C2-250	Video Scaler PLUS
1T-C2-400	PC/HD Scaler
Optional Accessories	
IRC-5	Infrared Remote Control
RM-230	Single/Dual Rackmount Kit
Note	
(1) RGB/YpPr input may also be used as the Lock/Mix source on the 1T-C2-250.	

Panel Drawings
