1T-C2-200 Video Scaler is based on TV One's exclusive CORIO2™ 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 S-Video. 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 Control Remote Unit or via 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 S-Video 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 the computer input to be inset in a window over either of the video inputs.

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.

Key Features of the 1T-C2-200
- Automatic incoming resolution detection
- 1x Composite and 1x S-Video Input
- Computer Resolutions to 2048x2048
- HDTV Resolutions to 1080p
- Multiple Worldwide Television Standards
- 1x RGB/YPbPr Output
- RS-232 Interface and Windows Control Panel
- IR Remote Control
- Variable Image Zoom to 10X and Shrink to 10%
- Optional Single/Dual Rackmount Kit

Additional Features of the 1T-C2-250
- Chromakey and Lumakey
- Mix and PIP
- AutoSet® - Automatic picture sizing

This symbol on a product indicates that it is powered by CORIO2™ 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 CORIO2™. 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 CORIO2™ 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 CORIO2™ based product can always be upgraded to the latest version of that model.

Specifications

Video Inputs	
Television Standards	NTSC, PAL, PAL-M, PAL-N, SECAM
Composite Video	1x via BNC
S-Video (YC)	1x via 4-Pin Mini-DIN Connector
Computer Input	
RGB/YPbPr	1x via HD15 (Loop-thru only)
Format - Analog	RGBHV, RGBS, RGsB, YPbPr
Computer Output	
Format - Analog	RGBHV, RGBS, 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 – CORIO2™
Color Resolution	24-bit (16.8 Million Colors)
Digital Sampling	24-bit, 4:4:4 format
Firmware Memory	Flash, Upgradeable via RS-232
Video Decoder	9-bit Digital
De-Interlacing (NTSC-PAL)	Pixel-level Motion Adaptive
Comb Filter Decoding	Adaptive
Film Mode (NTSC)	3:2 Pulldown
Video Adjustments	Contrast, Brightness, Saturation, Hue (NTSC), R-G-B Levels

Operational Modes	(1T-C2-250)
Key	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, CE, CSA, RoHS
Mechanical	
Size (H-W-D)	1.2"x7.9"x3.5" (30x200x89mm)
Weight (Net)	1.3 lbs (580g)
Environmental	
Operating Temperature	+4° to +45° C (+40° to +113° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	0° to +60° C (+32° to +140° F)
Storage Humidity	10% to 85%, Non-condensing
Power Requirement	
External Power Supply	12VDC@1A
Accessories Included	
1x C-Video Cable	6' (2m) BNC to BNC
1x VGA Cable	6' (2m) HD15 Male to Male
1x Serial Cable	6' (2m) D9 Male to Male
1x IR Remote	IRC-5
1x Operations Manual	1T-C2-200 Series
1x In-Plug Power Supply	US, UK or Euro
Product Item Numbers	
1T-C2-200	Video Scaler
1T-C2-250	Video Scaler PLUS
Optional Accessories	
RM-230	Single/Dual Rackmount Kit

Panel Drawings