

**1T-C2-200 Video Scaler** 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. The CORIOtools Suite integrates fully with the unit. 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 ensures 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 vice 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. 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 CV and 1x YC (S-Video) Input
- 1xRGB/YPbPr Input for Loop-thru
- Multiple Worldwide Television Standards In
- 1x RGB/YPbPr Output
- Output Computer Resolutions to 2048x2048
- Output HDTV Resolutions to 1080p
- Control via RS-232, IR or Front Panel
- Windows Control Panel included
- CORIOtools Suite compatible
- Variable Image Zoom to 10X and Shrink to 10%
- Optional IR Remote Control Unit
- Optional Single/Dual Rackmount Kit

### Additional Features of the 1T-C2-250

- Chromakey and Lumakey
- Mix and PIP
- RGB/YPbPr Input may be used as background in the PIP, Key or Mix Modes
- AutoSet - Automatic picture sizing



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

<p><b>Video Inputs</b>          Television Standards NTSC, PAL, PAL-M, PAL-N, SECAM          Composite Video 1x via BNC          YC (S-Video) 1x via 4-Pin Mini-DIN Connector</p> <p><b>Computer Input</b>          RGB/YpPr (Note 1) 1x via HD15 (Loop-thru only)          Format - Analog RGBHV, RGBS, RGsB, YPbPr</p> <p><b>Computer Output</b>          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</p> <p><b>General</b>          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          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</p>	<p><b>Operational Modes</b> (1T-C2-250)          Key Chromakey or Lumakey          Mix PC to/from Video          PIP Variable Window Size &amp; Position</p> <p><b>Control Methods</b>          Local via Front Panel Buttons &amp; OSD          RS-232 Interface via D9 Female Connector          Infrared Remote via IRC-5 Remote Unit</p> <p><b>Warranty</b>          Limited Warranty 5 Years Parts and Labor</p> <p><b>Regulatory Compliance</b>          Main Units FCC, CE, RoHS          Power Supplies UL, CUL, CE, PSE, GS, RoHS</p> <p><b>Mechanical</b>          Size (H-W-D) 30x200x90mm(1.18"x7.87"x3.54")          Weight (Net) 0.52 kg (1.14 lbs)</p> <p><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</p> <p><b>Power Requirement</b>          External Power Supply 12VDC@1A</p> <p><b>Accessories Included</b>          1x Operations Manual 1T-C2-200 Series          1x Power Adapter US, UK, Euro or AU</p> <p><b>Product Item Numbers</b>          1T-C2-200 Video Scaler          1T-C2-250 Video Scaler PLUS</p> <p><b>Optional Accessories</b>          IRC-5 Infrared Remote Control          RM-230 Single/Dual Rackmount Kit</p> <p><b>Note</b>          (1) RGB/YpPr input may also be used as the Lock/Mix source on the 1T-C2-250.</p>
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## Panel Drawings

