

**C2-1200 Video Switcher/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. NTSC and PAL video standards are supported. Video Inputs are 2x Composite, 2x S-Video or one YUV Component or YPbPr. 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.

**Stereo Audio** switching is provided by an integral 4x1 audio routing switcher. The four impedance-independent unbalanced inputs follow the video input selection. A rear panel terminal block provides access.

**C2-1250 Video Switcher/Scaler PLUS** has all the functions and features of the C2-1200 and adds a wide variety of additional capabilities, including scaling of the RGB or YPbPr input, Genlock, Picture-In-Picture, 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 inputs 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. Optional rackmount kits are available for all C2-1000 models

**Edge Blending** is a standard feature of the C2-1250. Because of the ability to 'feather' any or all of the edges, multiple images can be aligned vertically, horizontally, or both to create unusual displays. Using multiple units, there is no limit to the number of blended images. Edge



### Key Features of the C2-1200

- Automatic incoming resolution detection
- Inputs: 2x CV, 2x SV 1x YUV/YPbPr Component
- Computer Resolutions to 2048x2048
- HDTV Resolutions to 1080p
- Multiple Worldwide Television Standards
- Outputs: 2x RGB or YPbPr
- Integral 4x1 Stereo Audio Routing Switcher
- RS-232 Interface and Windows Control Panel
- IR Remote Control
- Variable Image Zoom to 10X and Shrink to 10%
- Optional Single/Dual Rackmount Kit
- Optional Input Expansion for additional inputs

### Additional Features of the C2-1250

- Scaling of the RGB or YPbPr input signal
- Picture-in-Picture
- Chromakey and Lumakey
- Edge Blending
- AutoSet® - Automatic picture sizing

Blending is not limited to high resolution RGB computer images, but can be applied to any input. Gamma correction is employed to compensate for many of the problems faced when blending between projectors. Special preparation of the video in advance is not necessary, since all processing is done within the unit.

**Input Expansion** to add additional RGB, YPbPr, YUV, Composite or S-Video inputs is easy by using any of the optional S2 Series Input Expansion Switchers. The S2 unit links to any C2-1000 series unit via an Options Interconnect Cable and becomes an integral part of scaler from a control and operational standpoint. The routing of these additional inputs is controlled directly from the control system of the C2. Multiple different S2 models may be simultaneously connected to a single C2, providing virtually unlimited input flexibility.

## Specifications

### Video Inputs

Television Standards NTSC, PAL, PAL-M, PAL-N, SECAM  
 Composite Video 2x via BNC  
 S-Video (YC) 2x via 4-Pin Mini-DIN Connector  
 YUV/YPbPr 1x via 3-BNC

### Computer Input

RGB/YPbPr 1x via HD15  
 Format - Analog RGBHV, RGBS, RGsB, YPbPr  
 Sync TTL Level, 10KΩ, Pos or Neg  
 Termination Auto-terminating into 75Ω

R-G-B Level Range 0.5-2.0 Vp-p  
 Scan Rate Detection Automatic  
 PC Resolutions Any up to 2048x2048  
 HDTV Resolutions Any up to 1080p  
 Max Horiz Scan Rate 150KHz  
 Computer Compatibility PC, Macintosh, Workstations

### Computer Output

Format - Analog RGBHV, RGBS, RGsB, YPbPr  
 Connectors 1x HD-15 Female and 1x 5-BNC  
 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

### Audio Input/Output

Inputs 4x Unbalanced via Terminals  
 Output Unbalanced via Terminals  
**Operational Modes**  
 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) 1.6"x8.6"x5.8" (41.5x218x147mm)  
 Weight (Net) 2.6 lbs (1.2 kg)

### 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 C2-1000 Series  
 1x In-Plug Power Supply US, UK or Euro

### Product Item Numbers

C2-1200 Video Switcher/Scaler  
 C2-1250 Video Switcher/Scaler PLUS

### Optional Accessories

RM-220 Single/Dual Rackmount Kit  
 S2 Series Input Expansion Switcher

## Panel Drawings

