

**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, Luma-key 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 or visa versa.

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 Luma-key
- 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 and 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	1.0 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-4 Remote Unit

### Warranty

Limited Warranty	2 Years Parts and Labor
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### 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
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### 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-4
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

