

**C2-4100 RGB Video Scaler** is a high performance PC-HDTV Video Scaler, Seamless Switcher, Chromakeyer, Lumakeyer, Picture-in-Picture Device, RGB Frame Synchronizer, Aspect Ratio Converter and a RGB-HDTV Genlock, just to name a few. The 3-Inputs and 2-Outputs will accommodate RGBHV resolutions up to 2048x2048 and YPbPr in all HDTV formats. Plus, the C2-4100 also has an RGBHV Preview Output to facilitate live event switching.

As a Picture-in-Picture Device, any input of the C2-4100 RGB Video Scaler can be squeezed and placed into a window of any size and positioned anywhere on the screen. The window can be placed over any other input as the background. The image in the window can then be seamlessly switched to another video input. The image can also be zoomed while it is in the window. Multiple C2-4100 units may be cascaded to provide multiple windows.

C2-4100's output signal format flexibility assures that the Native Resolution of virtually any display can be matched. Adjustment is provided for Contrast and each video input has its own non-volatile memory to retain these settings, even when the power to the unit has been turned off. Integral Test Signals are user defined. A Logo memory is provided, so the unit can easily be used as a Logo Insert. The unit can be controlled from the front panel, via RS-232, by an optional Infrared Control or a LAN with the optional Ethernet Control. The Windows Control Panel provides complete control of the unit and adds Macros to facilitate long, complex sequence of commands.

In addition, the optional CC-300 CORIOconsole provides a hardware control solution similar to a traditional Video Switcher.

**A2-2000 Stereo Audio Switcher** is an option offered to add Audio Follow Video or Audio Breakaway capability to the units. Both Balanced and Unbalanced inputs and outputs are provided.



**C2-4100**



**C2-4100 Rear Panel**



**CC-300**

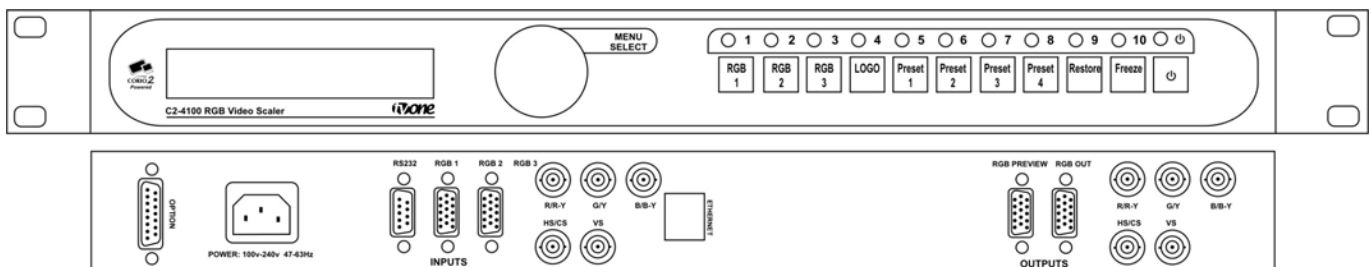
### Multiple Products in One

- RGB Scaler
- PC ◀▶ HDTV
- PC ◀▶ PC
- HDTV ◀▶ HDTV
- Logo Inserter
- Aspect Ratio Converter
- Lumakeyer
- Seamless Switcher
- Picture-in Picture
- RGB Frame Sync
- RGB HDTV Genlock
- Windowing Device
- Chromakeyer
- And more...

### Key Features of the C2-4100

- Multiple Conversion & Scaling products in one
- 3 Inputs and 2 Outputs, plus Preview Out
- I/O: YPbPr, YCbCr, RGBHV, RGsB, RGBS
- RGBHV to 2048x2048 & All HDTV Resolutions
- Genlock any Input to any other
- AutoSet Sizing - Exclusive CORIO® feature
- Seamless Switching with Cuts or Fades
- Unrestricted P-I-P - Any Input over any other
- RS-232 Interface for external control
- CORIO2® Technology Conversion Engine
- Zoom up to 1000% with 100% Pan coverage
- Image Shrink to 10% with 100% Pan coverage
- Video Image Adjustment with Multiple Memory
- Front Panel Knob, Buttons & LCD for control
- Optional IR Remote or IP Interface
- Universal Internal Power Supply

### Panel Drawings





## RGB Video Scaler

Model C2-4100



### Specifications

#### 3 Video Inputs

RGBHV, YPbPr, YCbCr 3x (1x via 5-BNC, 2x via HD-15F)

#### Genlock Input

Reference Signal Any of the Video Inputs

#### 2 Video Outputs

RGBHV, YPbPr, YCbCr 2x (1x via 5-BNC, 2x via HD-15F)

#### Preview Output

RGBHV, YPbPr, YCbCr 1x via HD-15 Female Connector

#### Input/Output Range

Computer Resolutions Up to 2048x2048

Max Vert Refresh Rate 250Hz

Max Horiz Frequency 150KHz

HDTV Resolutions All Known Resolutions & Formats

Interlace Support Progressive and Interlaced

#### Input RGB Sync

Type RGBHV, RGBS, RGsB

Level / Impedance TTL, 10K $\Omega$

Polarity Positive or Negative

Maximum Level 5Vp-p

#### Output RGB Sync

Type RGBHV, RBGS, RGsB

Level / Impedance 5Vp-p, 220 $\Omega$

Polarity Positive or Negative

#### Audio Switching (Optional A2-2000)

Stereo Inputs 10x Balanced and Unbalanced

Program Output 1x Balanced and Unbalanced

Preview Output 1x Balanced and Unbalanced

Connectors per I/O 2x RCA for Unbalanced

1x Terminal Block for Bal & Unbal

#### Control Methods

Local Front Panel Up to 5x User-definable Preset Buttons +LED, Rotary Selector, LCD Readout

RS-232 Interface DB-9 Male Connector

IP Interface Optional – RJ45 Connector

Infrared Control Option IRC-5 Remote Control Unit

Audio Switcher Control Via D-15 Options Connector from the Main Unit

#### Mechanical

Desktop Case (HWD) 1.75"x17"x7.9" (44x420x200mm)

With Rack Ears (HWD) 1.75"x19"x7.9" (44x482x200mm)

Weight (Net) 8.0 lbs (3.6 kg)

#### Environmental

Operating Temperature +5° to +45° C (+41° to +113° 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

#### General

Image Size & Position

Image Zoom Range

Image Shrink Range

Image Mirroring

Image Freeze

Video Memory

Resolution Memory

Firmware Memory

Picture-in-Picture

Number PIP Windows

Video I/O Impedance

De-Interlacing

Digital Sampling

Colors

Video Scaling Engine

Internal Format

Internal Test Patterns

LCD Panel

Logo Inserter

Proc Amp Adjustments

Proc Amp Memory

#### Power Requirement

Internal Power Supply

#### Warranty

Limited Warranty

#### Regulatory Approvals

Video Scaler Unit

Power Supplies

#### Accessories Included

1x VGA Output Cable

1x RGBHV Out Cable

1x RS-232 Cable

1x AC Power Cord

1x Operations Manual

1x Rackmount Kit

1x Control Software

#### Optional Accessories

A2-2000

IRC-4

IP Interface

CC-300

#### Product Item Number

C2-4100

C2-4110

#### Notes

(1) A2-2000 is controlled from the C2-4100 and provides Audio Follow Video or Audio Breakaway.

AutoSet or Manual

Continuous to 1000%

Continuous to 10%

Horizontal and/or Vertical

Full Frame

4x4MBytes Picture Memory  
Buffers (16MBytes total)

Approximately 1,000 Definable

Flash, Upgradeable via RS-232

Any 2 Video Inputs

Multiple Units may be Cascaded

75 $\Omega$  - R, G & B

Pixel-level Motion Adaptive

At 15KHz Input (YCbCr)

24-bit, 8-bits per R, G and B

16.7 Million

Proprietary CORIO2®

4:2:2 YCbCr

User Defined

24x2 Character

Flash Programmable

Video Level for RGB Inputs

Settings for each Video Input

100-240VAC, 47-63Hz, 50W

2 Years Parts and Labor

FCC, CE

UL, CE, CSA

6' (2m) HD-15 Male to Male

6' (2m) 5 BNC to 5 BNC

6' (2m) D9F to DB9F

6' (2m) US, UK or Euro or Type

2 Ears and 4 Screws

Downloadable from website

Audio Switcher (Note 2)

IR Remote Control Unit

Factory Installed Option

Hardware Control Panel

RGB Video Scaler

RGB Scaler with IP Interface