

C2-5100 Universal Video Scaler is a multi-function image conversion and scaling product which comes close to the ideal of "Anything In – Anything Out". Not only is it a high performance Video Scaler, Up-Converter, Down-Converter and Multi-Format Seamless Switcher, but it goes far beyond that. It's also a Standards Converter, Worldwide Chromakever, Lumakeyer, PIP Device, HDTV Converter, Frame Synchronizer, Time Base Corrector, Aspect Ratio Converter and a Universal Image Genlock. The nine Inputs and four Outputs will accommodate Composite Video, YC, YUV, YPbPr, all HDTV formats and any RGBHV resolution up to 2048x2048, not just some predefined ones. Plus, the C2-5100 has two Outputs for Preview (RGBHV and Composite Video) to facilitate live event switching.

As a PIP Device, the C2-5100 Universal Video Scaler is unparalleled in its price range. Any video input 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 video 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.

The C2-5100's output signal format flexibility assures that the Native Resolution of virtually any Digital Display can be matched. Because of the integral resolution calculator, even new resolutions can be added to the menu via the Windows Control Panel. Adjustments are provided for Brightness, Contrast, Color Saturation and Hue (where applicable) 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 Inserter. The C2-5100 employs advanced motion compensation to smooth out fast moving images and its automatic 3:2 Pull-down detection efficiently de-interlaces video from 24 fps film. The unit can be controlled from the front panel, via RS-232, IR or by the optional IP interface. The Windows Control Panel provides complete control of the unit and adds Macros to facilitate long, complex sequence of commands. Multiple units may be controlled from one Control Panel.

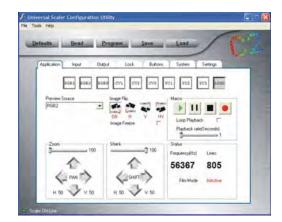
C2-5200 Universal Video Scaler provides all the features and functions of the C2-5100 and adds an SD/SDI input and output. This brings the unit's total to ten Inputs and five Outputs. Additionally, a second SD/SDI input is provided exclusively as a genlock source. The SD/SDI Inputs and Outputs are fully integrated into the architecture of the unit so that any of the other signal formats may be converted to and from SD/SDI. The SD/SDI signal can be used as either the background or insert in the PIP windowing mode. It is also possible to seamlessly switch between any of the analog inputs and the SD/SDI input.

## **Seamless Switchers**

Models C2-5100, C2-5200



C2-5200



Windows Control Panel



**CC-300 CORIOconsole** 

### Multiple Products in One

- Seamless Switcher
- Video Scaler
- Aspect Ratio Converter
  Standards Converter
- PC◀-►HDTV
- PC <-> PC
- SDTV ◀-▶ HDTV
- HDTV ◀-► HDTV
- Analog **◄**-► SD/SDI
- Frame Sync / TBC •

- PIP Device
- Down Converter
- Multi-Format Genlock
- Logo Inserter
- Video Transcoder
- Chromakeyer
- Lumakeyer

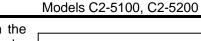


**Control** of the C2-5100 and C2-5200 can be from the front panel buttons and integrated LCD or remotely by RS-232 or by IP (C2-5110 and C2-5210). The Windows Control Panel affords complete control of the unit and adds Macros to facilitate long, complex command sequences. In addition, the optional CC-300 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.

### **Sample Capabilities**

Zooms of up to 1000% are possible with the C2-5000 Series Universal Video Processor





### Key Features of the C2-5100 and C2-5200

- Multiple Conversion and Scaling products in One
- Up to Ten Multi-format Inputs and Five Outputs
- Two Preview Outputs RGBHV and CV
- Input/Outputs: CV, YC (S-Video), YPbPr, RGBHV, RGsB, RGBS, YUV
- Computer Resolutions to 2048x2048
- HDTV Resolutions to 1080p

**Seamless Switchers** 

- Genlock any Video Input to Any Other
- SD/SDI Input/Output and Genlock (C2-5200 Only)
- AutoSet Automatic picture sizing
- Seamless Switching with Cuts or Fades
- Unrestricted PIP Any Input Over Any Other
- RS-232 Interface for External Control
- CORIO®2 Technology Conversion Engine
- Auto Detect Worldwide Television Standards
- Zoom up to 1000% with Full Positioning
- Image Shrink to 10% with Full Positioning
- Video Image Adjustment with Multiple Memory
- Front Panel Knob, Buttons and LCD for Control
- Optional IR Remote or IP Interface
- Universal Internal Power Supply



Multi-format Chromakeys are fully supported in the C2-5000 series Universal Video Processor

The C2-5000 Series Universal Video Processor allows you to insert an active PIP image over an active background without regard to signal type.





### 10 Video Inputs

Composite Video YC (S-Video) SD/SDI (C2-5200 Only) RGBHV, YPbPr, YUV

Genlock Input

Reference Signal SDI (C2-5200 Only) **5 Video Outputs** 

Composite Video YC (S-Video) SD/SDI (C2-5200 Only) RGBHV, YPbPr, YUV

2 Preview Outputs Composite Video RGBHV, YPbPr, YUV Input/Output Range

Computer Resolutions Max Vert Refresh Rate Max Horiz Frequency HDTV Resolutions Interlace Support Television Standards

SD/SDI (C2-5200 Only) Input RGB Sync Type Level / Impedance Polarity Maximum Level Output RGB Sync Type Level / Impedance Polarity Output YPbPr Sync Type Control Methods

Local Front Panel

RS-232 Interface IP Interface Infrared Control Option Audio Switcher Control

#### **Mechanical**

Desktop Case (HWD) With Rack Ears (HWD) C2-5100 Weight (Net) C2-5200 Weight (Net) A2-2000 Weight (Net) Environmental Operating Temperature

Operating Humidity Storage Temperature Storage Humidity Regulatory Approvals Video Scaler Unit Power Supplies 3x via BNC Connector 3x via 4-PIN Mini-DIN Connector 1x via BNC Connector 3x (1x via 5-BNC, 2x via HD-15F) (Note 1)

Any of the Video Inputs 1x via BNC

1x via BNC Connector 1x via 4-PIN Mini-DIN Connector 1x via BNC Connector 2x (1x via 5-BNC, 2x via HD-15F)

1x via BNC Connector 1x via HD-15 Female Connector

Up to 2048x2048 250Hz 150KHz All Known Resolutions & Formats Progressive and Interlaced PAL-B, G, I, D, H, PAL-M, PAL-N NTSC 3.58, NTSC 4.43, SECAM, SMPTE 259M

Auto-detect RGBHV, RGBS, RGsB TTL,  $10K\Omega$ Positive or Negative 5Vp-p

RGBHV, RBGS 5Vp-p, 220 $\Omega$  Positive or Negative

Bi-level

10x Programmable Buttons +LED, Rotary Selector, LCD Readout DB-9 Male Connector Optional via RJ45 Connector IRC-5 Remote Control Unit Via D-15 Options Connector from the Main Unit

44x432x201mm (1.75"x17"x7.9") 44x483x201mm (1.75"x19"x7.9") 3.48 kg (7.66 lbs) 3.58 kg (7.88 lbs) 2.54 kg (5.59 lbs)

0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F) 10% to 85%, Non-condensing

FCC, CE, RoHS UL, CUL, CE, PSE, GS, RoHS Models C2-5100, C2-5200

### General

Image Size & Position Image Zoom Range Image Shrink Range Image Mirroring Image Freeze Video Memory Resolution Memory Firmware Memory Flicker Filter PIP Number PIP Windows Video I/O Impedance Video Decoder Comb Filter Decoding De-Interlacing (PAL-NTSC) Film Mode (NTSC) Video Encoder **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 Warrantv Accessories Included 1x AC Power Cord 1x Operations Manual 1x Rackmount Kit 1x Control Software **Optional Accessories** A2-2000 IRC-5 Add 10 to Model No. CC-300 CORIOconsole Product Item Number C2-5100 C2-5110 C2-5200 C2-5210 Note

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 4-Level Vertical Any 2 Video Inputs Multiple Units may be Cascaded 75Ω 9-bit Digital Adaptive Pixel-level Motion Adaptive 3:2 Pull Down Detection 10-bit Digital 24-bit, 8-bits per R, G and B 16.7 Million Proprietary CORIO®2 4:2:2 YUV User Defined 24x2 Character Flash Programmable Brightness, Contrast, Saturation, & Hue for CV & SV Inputs, plus Video Level for RGB Inputs Settings for each Video Input

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

2 Years Parts and Labor

US, UK or Euro C2-5000 Series 2 Ears and 4 Screws Downloadable from website

Audio Switcher (Note 2) IR Remote Control Unit Network Interface (Factory Installed) Hardware Control Panel

Universal Scaler Universal Scaler with IP Interface Universal Scaler with SD/SDI I/O Universal Scaler with SD/SDI & IP

(1) RGBHV Inputs/Outputs may also be RGBS or RGsB.

Audio Switching (Optional A2-2000 - Note 2)Stereo Inputs10x Balanced and UnbalancedProgram Output1x Balanced and UnbalancedPreview Output1x Balanced and UnbalancedConnectors per I/O2x RCA for UnbalancedNote

(2) A2-2000 is controlled from the C2-7100 and provides Audio Follow Video or Audio Breakaway. A Separate Spec Sheet available for this option.



# Seamless Switchers

Models C2-5100, C2-5200

