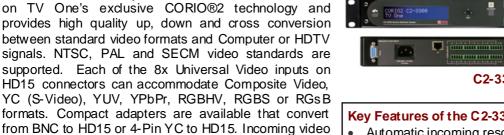


Universal Input Seamless Switcher

Models C2-3350, C2-3360



parameters may be adjusted. The output is selectable as any computer resolution up to 2048x2048 at any vertical refresh rate and all HDTV resolutions up to 1080p as well as Composite and YC.

C2-3350 Universal Input Seamless Switcher is based

Two Program outputs are provided. One is Universal Analog via an HD15 that can be set to any analog format and resolution form Composite Video through 1080p HD. The second Program out is provided as DVI-D. The Preview output is an analog RGBHV signal that shows the selected input as a full screen image preview; CV and YC inputs are up-converted to RGBHV for viewing.

All the functions can be controlled via the front panel Push Buttons, Infrared, RS-232 or IP. The CORIOtools Suite integrates fully with the unit. A Windows Control Panel is also provided and most third party control systems interface directly with C2-3000 units. 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 to any display. High bandwidth chroma sampling ensures faithfully reproduced, high resolution colors.

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. Ten user defined presets are also available to customize settings for various applications.

Advanced Features of the C2-3350 includes scaling of the RGB or YPbPr inputs, Genlock, Unrestricted Picture-In-Picture (any input over any other), 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 is unrestricted and allows any input to be inset in a window over any other



C2-3360

Key Features of the C2-3300 Series

- Automatic incoming resolution and format detection
- 8x Universal Video Input Seamless Switching
- 1x Program Output (Analog, any format)
- 1x Program Output (DVI-D)
- 1x Preview Output (RGBHV forma, all Sources)
- Universal Scaler (Up, Down & Cross Conversion)
- Video Frame Rate Conversion
- Worldwide TV Standards Conversion
- Aspect Ratio Conversion
- 4:4:4 Full bandwidth Chroma Sampling
- Menu Driven Control via Joystick and LCD
- Remote Controllable via IR, RS-232 or IP
- CORIOtools Suite compatible
- Rack-mounting ear kit (to fit to 19" rack width)

Additional Features of the C2-3350 and C2-3360

- Unrestricted Single Window PIP
- Genlock, Mix, Chroma/Lumakey, Edge Blending

Additional Features of the C2-3360

- 8x Stereo Differential Stereo Audio Inputs
- Program and Preview Stereo Audio Outputs
- Adjustable Audio Level and Balance
- Audio assignable to any video input

Flexible Upgrade Path

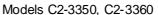
- Audio Upgradable at TV One Service Centers
- Mix/Key/PIP/Edge Blend Upgradable at User's site

input.

Edge Blending allows feathering any or all of the edges; multiple images can be aligned vertically, horizontally, or both to create unusual displays. Using multiple units, any number of images can be blended. Gamma correction is employed to compensate for many of the problems faced when blending projectors.

The C2-3360 model offers Differential Stereo Audio switching provided by an integral 8x1 stereo audio routing switcher. The eight balanced/unbalanced inputs may be set to follow any of the video inputs. The connections are made via terminal blocks on the rear panel. Adjustment of audio volume and balance is possible (MUTE, -15dB to +15dB), plus separate routed outputs for program and preview.







Specifications

Video Inputs Universal Analog Video Outputs

Program Channel (2x)

Preview Channel **Stereo Audio Inputs** C2-3360 Only **Stereo Audio Outputs** C2-3360 Only

Audio Characteristics

Type

Frequency Response Level and Balance Input/Output Levels Video Characteristics

Video Standards Composite & YC

YUV YPbPr

RGBHV, RGBS, RGsB

Sync Impedance

R-G-B Level Range Scan Rate Detection PC Resolutions **HDTV** Resolutions

General

Size and Position Image Size Image Freeze Settings Memory Zoom Range Shrink Range Image Mirroring Horizontal Filtering Conversion Technology

Color Resolution Digital Sampling

Sampling Rate Firmware Memory Video Decoder

De-Interlacing (NTSC-PAL)

Comb Filter Decoding Film Mode (NTSC)

Video Adjustments

Control Local Remote 8x via HD15 Female

1x Universal Analog via HD15F 1x DVI-D via DVI-I Connector 1x RGBHV via HD15F

8x Balanced/Unbal via Terminals

2x Balanced/Unbal via Terminals (C2-3360)

Analog – Balanced or Unbalanced

180KHz - 3dB

MUTE. -15dB to +15dB Line Level – all Inputs & Outputs

NTSC, PAL-B, M, N, SECAM NTSC, PAL (Note 1) NTSC, PAL (Note 1) Up to 1080p @ 60Hz Up to 2048x2048 60Hz TTL Level, 10KΩ, Pos or Neg 75Ω

0.5-2.0V p-p Automatic

Any up to 2048x2048 Any up to 1080p

Automatic via AutoSet or Manual User-Definable Presets

One Video Frame Non-Volatile Variable to 10X Zoom Variable to 10% Horizontal and/or Vertical

Full Digital

Proprietary - CORIO®2 24-bit (16.8 Million Colors) 24-bit, 4:4:4 format

162MHz

Flash, Upgradeable via RS-232

9-bit Digital

Pixel-level Motion Adaptive

Adaptive 3:2 Pulldown

Contrast, Brightness, Saturation, Hue (NTSC), R-G-B Levels

Push Buttons and LCD IR, RS-232, Ethernet IP Operational Modes

Key Chromakey or Lumakey Mix Fade, Cut or Effect Transitions PIP (Unrestricted) Any source over any other source Edge Blending Top, Bottom, Right or Left Side

5 Years Parts and Labor

0° to +45° C (+32° to +113° F)

10% to 85%, Non-condensing -10° to $+70^{\circ}$ C (+14° to +158° F)

10% to 85%, Non-condensing

100-240V AC (47-63 Hz), 20W

Mechanical

Desktop Case (HWD) 44x420x200mm (1.75"x17"x7.9") With Rack Ears (HWD) 44x482x200mm (1.75"x19"x7.9") Weight (Net) 3.2kg (7.0 lbs)

Warranty

Limited Warranty Environmental

Operating Temp. Operating Humidity Storage Temperature Storage Humidity

Power Requirement

Mains

Regulatory Approvals

EN55103-1 & 2, EN60065, FCC, Video Scaler Unit

RoSH

Power Supplies UL, CUL, CE, PSE, GS, RoHS

Product Item Numbers

No Audio - With Mix/Key/PIP C2-3350 C2-3360 With Audio - With Mix/Key/PIP

Accessories Included

1x Power Adapter US, UK, Euro or AU 1x Operations Manual C2-3300 Series

2x ZCH3000-1 HD15M to BNC Male CV Adapter 1x ZSH3000-1 HD15M to 4-Pin Mini-DIN YC

1x Rackmount Kit Set of attachable ears Windows Control Panel Downloadable form website

Optional Accessories

ZCH3000-1 Additional HD15M to BNC Male CV Adapt ZSH3000-1 Additional HD15M to 4-Pin Mini-DIN YC CHB1609-2 0.7m (2') HD15M to3 BNC Female Cable 2m (6') HD-5M to 3 BNC Male Cable ZHB1870-6 ZHR1720G-6 2m (6') HD15M to 3 RCA Male Cable 2m (6') HD15M to 5 BNC Male Cable ZHB1719G-6

CC-300 Hardware Control Panel

RM-110 Rear Rack Rail Support System

Notes

(1) Composite, YC and YUV/YPbPr signal may be fed directly via an HD15 cable or via the breakout cable and adapters listed in the Optional Accessories.



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Panel Drawings

