



Edge Blender

Model C2-2450A



C2-2450A Edge Blender is based on TV One's exclusive CORIO®2 technology and enables easy Edge Blending using 2 or more units. DVI and RGB inputs and outputs at virtually any resolution and refresh rate are supported. 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. 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. Windows Control Panel software is also provided and most third party control systems interface directly with the entire C2 range of products. A front panel LCD makes setup easy. The unit is housed in a desktop case and an optional rackmount kit holds one or two units.

Pixel-accurate scaling is available to support virtually any edge-blend application with images from multiple units aligned vertically, horizontally, or both to create unusual displays. Gamma correction is employed to compensate for many of the problems faced when blending projectors. Special preparation of the video in advance is not necessary, since all processing is done within the unit.



Key Features of the C2-2450A

- Inputs: DVI-D and Analog RGB/Y PbPr
- Outputs: DVI-I and Analog RGB/Y PbPr
- Analog: PC to 2048x2048, HDTV to 1080p/60
- DVI: PC to 1920x1200, HDTV to 1080p/60
- Temporal Interpolation & Diagonal Interpolation
- Automatic Incoming Resolution Detection
- Black and White test outputs.
- 4:4:4 Full bandwidth Sampling
- Video signal parameter adjustments
- RS-232 and IP Interface & Windows Control Panel
- Variable Image Zoom to 10X and Shrink to 10%
- Optional IR Remote Control Unit
- CORIOtools Suite compatible
- Optional Single/Dual Rackmount Kit

Specifications

Computer Inputs

Signal Type	1x DVI-D via DVI-I Connector
Format	1x Analog via HD-15 Female RGBHV, RGBS, RGsB, YPbPr
Sync	TTL Level, 10K Ω , Pos or Neg
Termination	75 Ω
R-G-B Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
PC Resolutions	DVI up to 1920x1200 60Hz
	Analog up to 2048x2048
HDTV Resolutions	Any up to 1080p/60
Max Horiz Scan Rate	150KHz
Computer Compatibility	PC, Macintosh, Workstations

Computer Outputs

Signal Type	1x DVI-I via DVI-I Connector
Format	1x Analog via HD-15 Connector RGBHV, RGBS, RGsB, YPbPr
R-G-B Level	0.7 Vp-p
Analog Signals	PC to 2048x2048, HD to 1080p/60
DVI Signals	PC to 1920x1200, HD to 1080p/60
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 – CORIO®2
Frame Rate Conversion	Temporal
Color Resolution	24-bit (16.8 Million Colors)
Sampling Rate	162MHz
Digital Sampling	24-bit, 4:4:4 format
Firmware Memory	Flash, Upgradeable via RS-232

Control Methods

Local	via Front Panel Buttons & OSD
RS-232 Interface	via D9 Female Connector
IP Interface	via RJ45 Connector
Infrared Remote	via optional IRC-5 Remote Unit
Input Expansion Control	via D-15 Options Connector

Warranty

Limited Warranty	5 Years Parts and Labor
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Regulatory Compliance

Main Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
Mechanical	
Size (H-W-D)	41.5x218x150mm (1.63"x8.6"x5.9")
Weight (Net)	1.32kg (2.90 lbs)

Environmental

Operating Temperature	0° to +50° C (+32° to +122° 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

Power Requirement

External Power Supply	12VDC@1.0A
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Accessories Included

1x Operations Manual	
1x Power Adapter	US, UK, Euro or AU

Product Item Numbers

C2-2450A	Edge Blender
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Optional Accessories

RM-220	Single/Dual Rackmount Kit
IRC-5	Infrared Remote Control Unit
Control Software	Downloadable from Website

Notes

- (1) Balanced Audio (6-inputs) and Audio Delay is available via the S2-106AD accessory.

Panel Drawings

