

C2-7310 (Video) Specifications

Video Inputs

Composite Video	3x via BNC Connector
YC (S-Video)	3x via 4-PIN Mini-DIN Connector
DVI-I (Note 1)	3x via DVI-I Connector
SDI (SD or HD-SDI)	2x via BNC

Genlock Input

Reference Signal	Any of the Video Inputs
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Independent Output 1

Composite Video	1x via BNC Connector
YC (S-Video)	1x via 4-PIN Mini-DIN Connector
DVI-I (Note 1)	1x via DVI Connector
SDI (SD or HD-SDI)	1x via BNC

Independent Output 2

Composite Video	1x via BNC Connector
YC (S-Video)	1x via 4-PIN Mini-DIN Connector
DVI-I (Note 1)	1x via DVI Connector
SDI (SD or HD-SDI)	1x via BNC

Input/Output Range

Computer Resolutions	Analog: Up to 2048x2048 DVI: Up to 1280x1024 @ 60Hz/1080p30
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Max Vert Refresh Rate	250Hz
Max Horiz Frequency	150KHz
HDTV Resolutions	All thru 1080p
Interface Support	Progressive and Interlaced
Television Standards	NTSC 3.58, 4.43, PAL-B,G,I,D,H, PAL-M, PAL-N & SECAM (In Only)

SDI

Input RGB Sync

Type	RGBHV, RGBS, RGsB
Level / Impedance	TTL, 10KΩ
Polarity	Positive or Negative
Maximum Level	5Vp-p

Output RGB Sync

Type	RGBHV, RGBS, RGsB
Level / Impedance	5Vp-p, 220Ω
Polarity	Positive or Negative

Control Methods

Local Front Panel	48 Button EXP front panel +LED and LCD
RS-232 Interface	DB-9 Male Connector
IP Interface	RJ45 Connector

Mechanical

Desktop Case (HWD)	44x420x200mm (1.75"x17"x7.9")
With Rack Ears (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight (Net)	3.8 kg (8.4 lbs)

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

Regulatory Approvals

Video Scaler Unit	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS

Warranty

Limited Warranty	2 Years Parts and Labor
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SDI Jitter

SMPTTE259M-C	(270Mbps: 525/625 Line) Jitter 0.070 +/-0.01 UI
SMPTTE292M	(1.485/1.4835Gpbs: 720p, 1035i, 1080i, 1080p) Jitter 0.176 +/-0.02 UI

General

Image Size & Position	AutoSet or Manual
Image Zoom Range	Continuous to 10x
Image Shrink Range	Continuous to 10%
Image Mirroring	Horizontal and/or Vertical
Image Freeze	Full Frame
Video Sampling Rate	108MHz
Resolution Memory	Approximately 1,000 Definable
Firmware Memory	Flash, Upgradeable via RS-232
Flicker Filter	4-Level Vertical
Picture-in-Picture	2 Windows + Background from any 3 Video Inputs
Number PIP Windows	2 in Dual PIP Mode 1 in Switcher & Ind. Modes

Video I/O Impedance	75Ω
Video Decoder	9-bit Digital
Comb Filter Decoding	Adaptive
De-Interlacing (PAL-NTSC)	Pixel-level Motion Adaptive
Film Mode (NTSC)	3:2 Pull Down Detection
Video Encoder	10-bit Digital
Digital Sampling	24-bit, 8-bits per R, G and B
Colors	16.7 Million
Video Scaling Engine	Proprietary CORIO®2
Internal Format	4:4:4 YUV
Internal Test Patterns	User Defined
LCD Panel	24x2 Character
Logo Inserter	Flash Programmable
Proc Amp Adjustments	Brightness, Contrast, Saturation, & Hue for CV & SV Inputs, plus Video Level for RGB Input Settings for each Video Input

Power Requirement

Internal Power Supply	100-240VAC, 47-63Hz, 50W
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Accessories Included

1x AC Power Cord	6' (2m) US, UK or Euro
1 DVI-A to 5 BNC	6' (2m) DVI-A to 5 BNC
1x Operations Manual	
1x Rackmount Kit	2 Ears and 4 Screws

Product Item Number

C2-7310	2-Channel Video-Audio Processor w/HD-SDI I/O
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Optional Audio Breakout Units

A2-7312	16 AES3-id (8-in,8-out) on BNC's
A2-7302	16 AES (8-in,8-out) on XLR's
A2-7342	8 Analog Stereo (4-in, 4-out) on XLR's
A2-7322	16 Analog Stereo (8-in, 8-out) on Terminal Strips

Optional Accessories

1x Control Software	Downloadable from website
CC-300	Hardware Control Panel
RM110	Long arm rack ears for 24" to 32" deep racks

Notes

(1) DVI-I Input/Output connectors also accommodate RGBHV, RGBS, RGsB, YUV & YPbPr signal formats.



C2-7310

