

Colorado Video

"Unique Video Instrumentation"

video multiplexer 496-2CF & video demultiplexer 497-2CF

general description

Colorado Video's Interframe Multiplexer and Demultiplexer pair doubles transmission or recording capacity by combining two NTSC video signals into one.

The multiplexer synchronizes the signals at its two video inputs, discards every other frame from each, and then interleaves them to form one full signal. The input signals do not need to be genlocked, but analog tape sources should be time base corrected. The single multiplexed output can be recorded or transmitted by conventional means.

On the playback or receive end, the Video Demultiplexer Input takes the signal created by the multiplexer and separates its frames into two conventional video outputs. Each output provides a standard 30 frame per second video signal, but the frames are updated only 15 times per second. An analog tape playback of a multiplexed signal should be time base corrected before being fed to the demultiplexer

Options include field multiplexing (Option "D" for NTSC only) instead of frame multiplexing. This option provides twice the update rate but at one-half vertical resolution. Rack mount is also optional.

specifications

Model	496-2CF	497-2CF
Power Connector:	IEC (Cord included)	IEC (Cord included)
Size:	8"W x 11"D x 1.75"H	8"W x 11"D x 1.75"H
Mounting:	Free standing desktop, rack mount optional	Free standing desktop, rack mount optional
Power:	100-240VAC	100-240VAC
Chassis:	Painted Aluminum	Painted Aluminum
Video Input/Output:	1Vp-p, composite, RS-170, NTSC	1Vp-p, composite, RS-170, NTSC
Options:	Rack Mount, Field Multiplexing	Rack Mount, Field Demultiplexing
Resolution:	NTSC: 720H x 480V, 30FPS for each input Option D: 720H x 240V, 60fPS for each input PAL: 720H x 580V, 25FPS for each input	NTSC: 720H x 480V, 30FPS for each output updated 15/sec Option D: 720H x 240V, 60fPS updated 30/sec PAL: 720H x 580V, 25FPS for each output updated 12.5/sec
Controls:	Power (Illuminated switch)	Power (Illuminated switch)
I/O Connectors	Composite Video: BNC	Composite Video: BNC