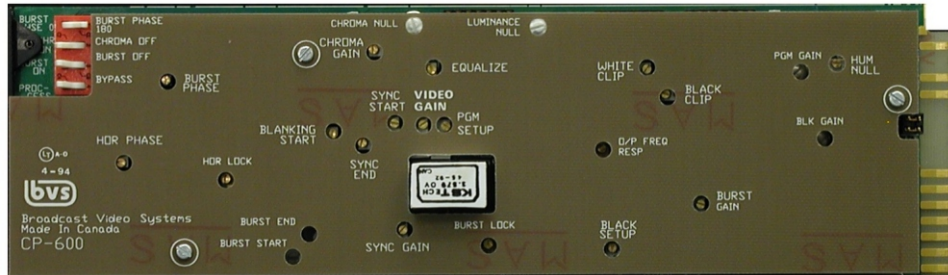




# CP600 CARD PROC

## PLUG-IN NTSC VIDEO PROCESSING AMPLIFIER



### ***The Economical Cure for Unacceptable Video Levels & Pulse Widths***

Designed to plug directly into a Leitch Video or Grass Valley Group DA frame, the CP600 provides exceptionally clean processing of otherwise unairable signals. It may also be used to process alpha key signals, to enable enhanced keying performance from older type keyers. For stand-alone operation, the versatile Card Proc is also available in the FR3 one-half rack width frame and power supply.

- ~Locks to time base corrected input video
- ~Accommodates  $\pm 6$  dB variance on any input parameter
- ~Regenerated sync, blanking and burst
- ~Adjustable setup, video and chroma levels
- ~Adjustable SCH, S/C and H. phase
- ~Hard white and black clip
- ~Equalization
- ~Differential input plus two stage clamping
- ~Two program and two color black outputs
- ~Sync and burst maintained on loss of input
- ~Chroma, burst on/off
- ~Processing bypass

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# CP600 SPECIFICATIONS

## **INPUT**

Input Level.....	1 Vp-p nominal, 75 ohm terminating
Return Loss.....	> 42 dB
DC on Input.....	6 V max
Common Mode Rej.....	> 40 dB @ 60 Hz

## **OUTPUTS**

### Two program:

Level.....	1 Vp-p into 75 ohms
Return Loss.....	> 35 dB @ 4.2 MHz
Isolation.....	> 40 dB @ 4.2 MHz

### Two color black:

Level.....	40 IRE sync/40 IRE burst/7½ IRE setup
Return Loss.....	> 35 dB @ 4.2 MHz
Isolation.....	> 40 dB @ 4.2 MHz

## **VIDEO PERFORMANCE**

Frequency Response.....	± 0.2 dB to 6 MHz/-0.75 dB to 9 MHz
Differential Phase.....	± 1°
Differential Gain.....	< 1%
RMS Noise.....	< 5 mV
Line Rate Tilt.....	< 0.5%
Field Rate Tilt.....	< 1%
Bounce.....	< 2%
H. Lock Jitter.....	< 7 ns
S/C Lock Jitter.....	< 1°
Path Length.....	97 ns

## **USER ADJUSTMENT RANGES**

Video Level.....	± 3 dB
Chroma Level.....	± 3 dB
Sync Level.....	20 - 60 IRE units
Burst Level.....	20 - 60 IRE units
Burst Phase.....	180° (switch) 190° (fine)
Horizontal Phase.....	300 ns advance, 1 microsec delay
Start of Sync.....	± 300 ns
End of Sync.....	± 300 ns
H. Blanking Width.....	10.8 microsec, ± 350 ns
V. Blanking Width.....	21 lines (fixed)
Equalization.....	+ 3 dB, -2 dB @ 5.6 MHz
Black Clip.....	0 IRE to -25 IRE
White Clip.....	100 IRE to 125 IRE
Set Up.....	0 to + 15 IRE

## **CARD EDGE DIP SWITCHES**

Proc Bypass.....	Video is clamped but all processing is bypassed
Chroma On/Off.....	Kills chroma (< 32 dB) but retains burst
Burst On/Off.....	Kills burst but retains chroma

## **ELECTRICAL**

Plug-in PC Board.....	+ and - 15 VDC unregulated, 260 mA
Stand Alone Half-Rack Width Frame.....	120/230 V, 50/60 Hz, 15 VA