

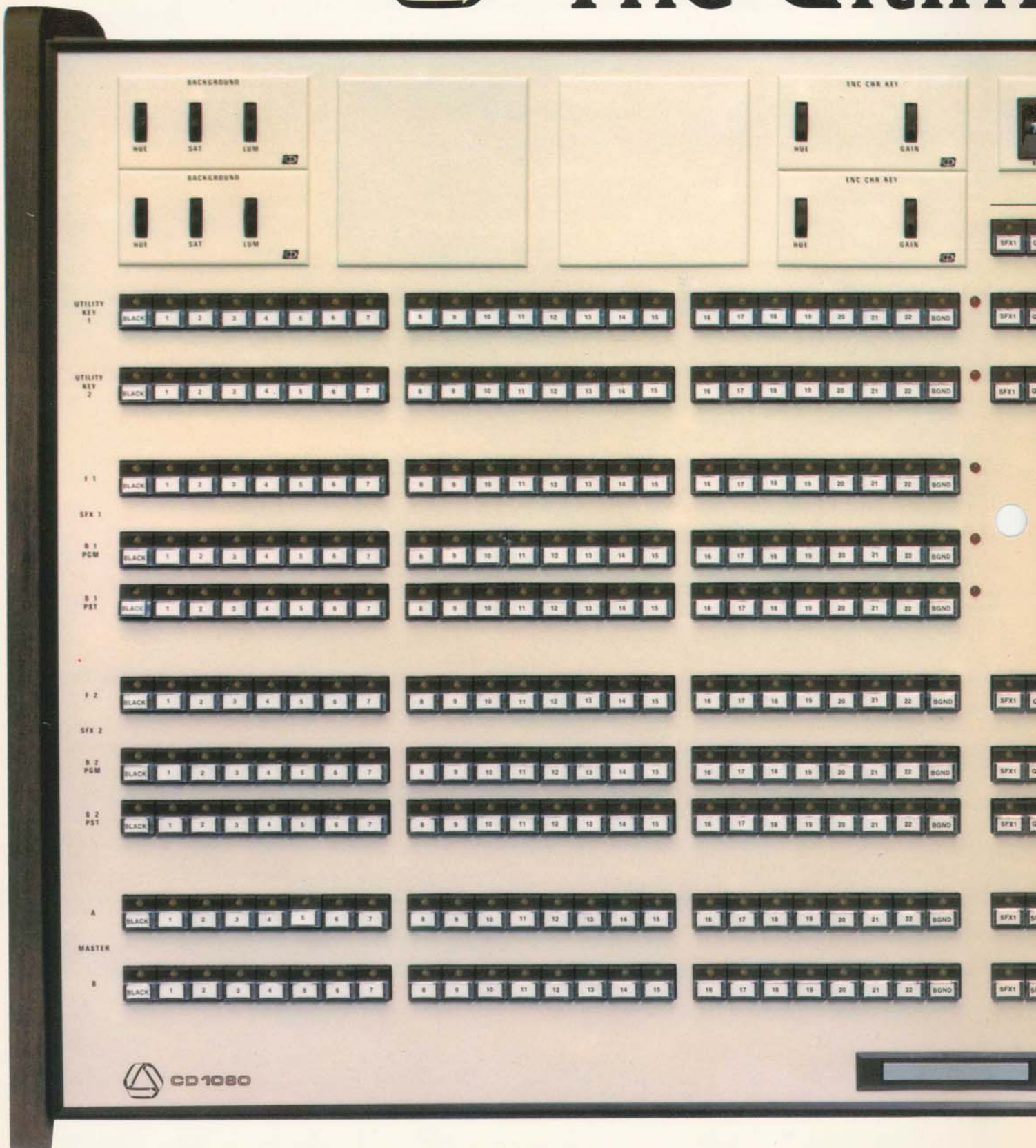
Series 80 1080



just imagine . . .

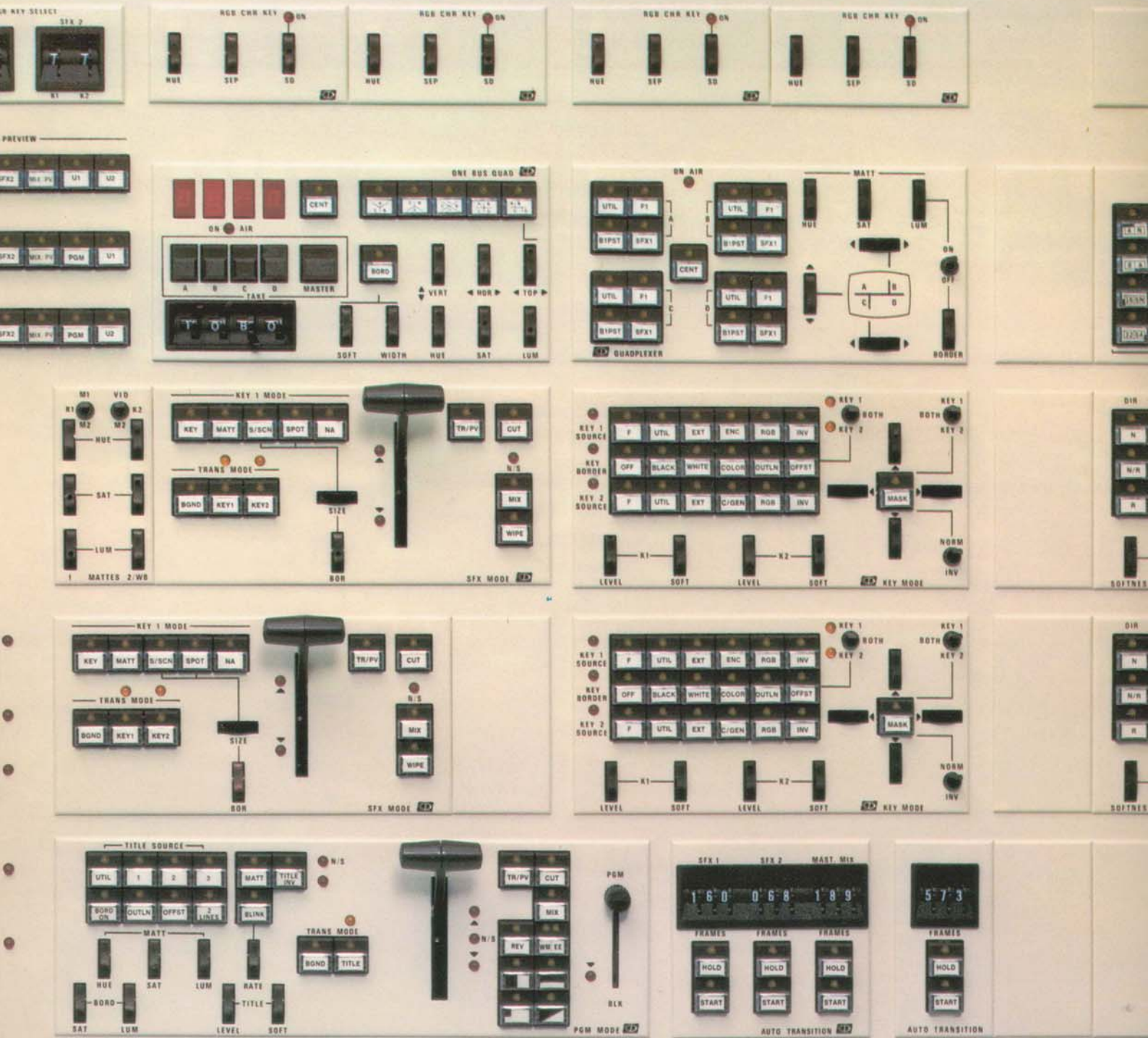


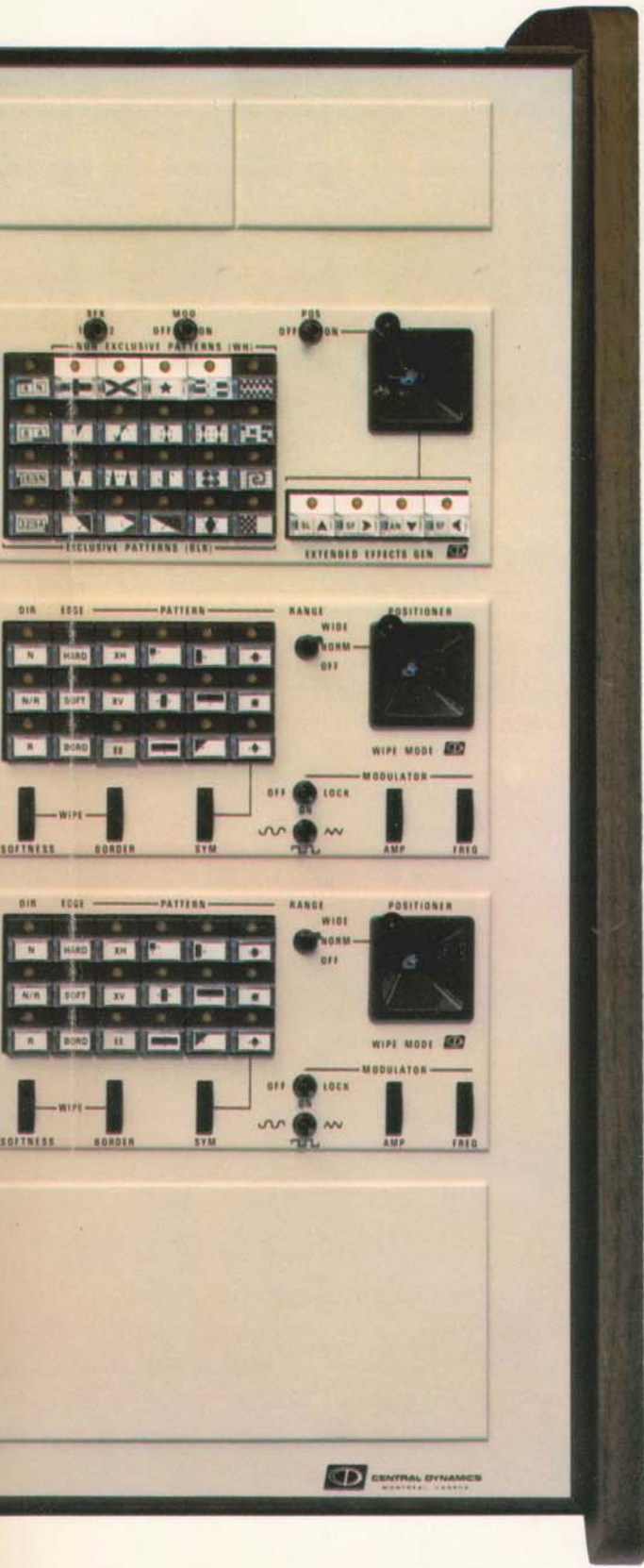
The Ultim



... *Sophisticated productions.*

ate Switcher





Bordering on the impossible

Unquestionably the most powerful teleproduction switcher on the market today, the 1080 can handle the most complex and demanding programming sequences with power to spare. Designed to make the impossible easy, the Central Dynamics 1080 redefines the state of the art in switcher technology.

A touch of class

Standard equipment on the 1080 makes it unmatched when it comes to power and creative freedom: two revolutionary SFX amplifiers, *Touches of genius*, Key and Wipe modules, and the versatile Program Processor make up the basic 1080 package. Add to these standard features any of the complete range of Series 80 options and you have a switcher in a class by itself.

At your fingertips

The SFX module provides all the power you need to control background and foreground transitions, plus controls for selection of keys, split screens, spotlights and non-additive inserts. With the Key module, all source selection, masking, level and softness controls are at your fingertips. The Key module gives you creative control over a variety of Key sources including: encoded or RGB chroma keys, adjustable mask keys, character generator and matte keys. Add the optional RGB chroma keyer with shadow key, and you can realistically key shadows into any scene.

Bored with borders?

Variable width Key borders in white, black or color; offset (drop shadow) or outline, are yours in one or two line width by adding the optional Key border generators.

The soft touch

The Wipe mode module provides for even more creativity in wipe borders which can be adjusted for width, softness and color. From hard to dynamic super soft full screen bordered wipes, the freedom is yours. The Wipe module is also the source for position, wipe direction and pattern selection. Variable multiplication and modulation of basic patterns lets you create your own wipe patterns, from a simple horizontal wipe to the unique bubble wipe. Add an optional extended effects generator and the possibilities become truly limitless.

Giving you a free hand

The Program Processor built into the 1080 allows the SFX amplifiers to accommodate an extended range of effects and sequences. 10 buses feed the SFX amplifiers and the Program Processor, giving you a free hand in creative control of your production. Downstream keying, mix, wipe, cut, and fade-to-black, the Program Processor lets you do it all.

Don't just switch . . . Create

Like all Series 80 switchers, the 1080's modular design lets you tailor a system for today and add power as your demands grow tomorrow. If you are looking for ultimate video power in a switcher, explore the unlimited creative potential of the Central Dynamics 1080.

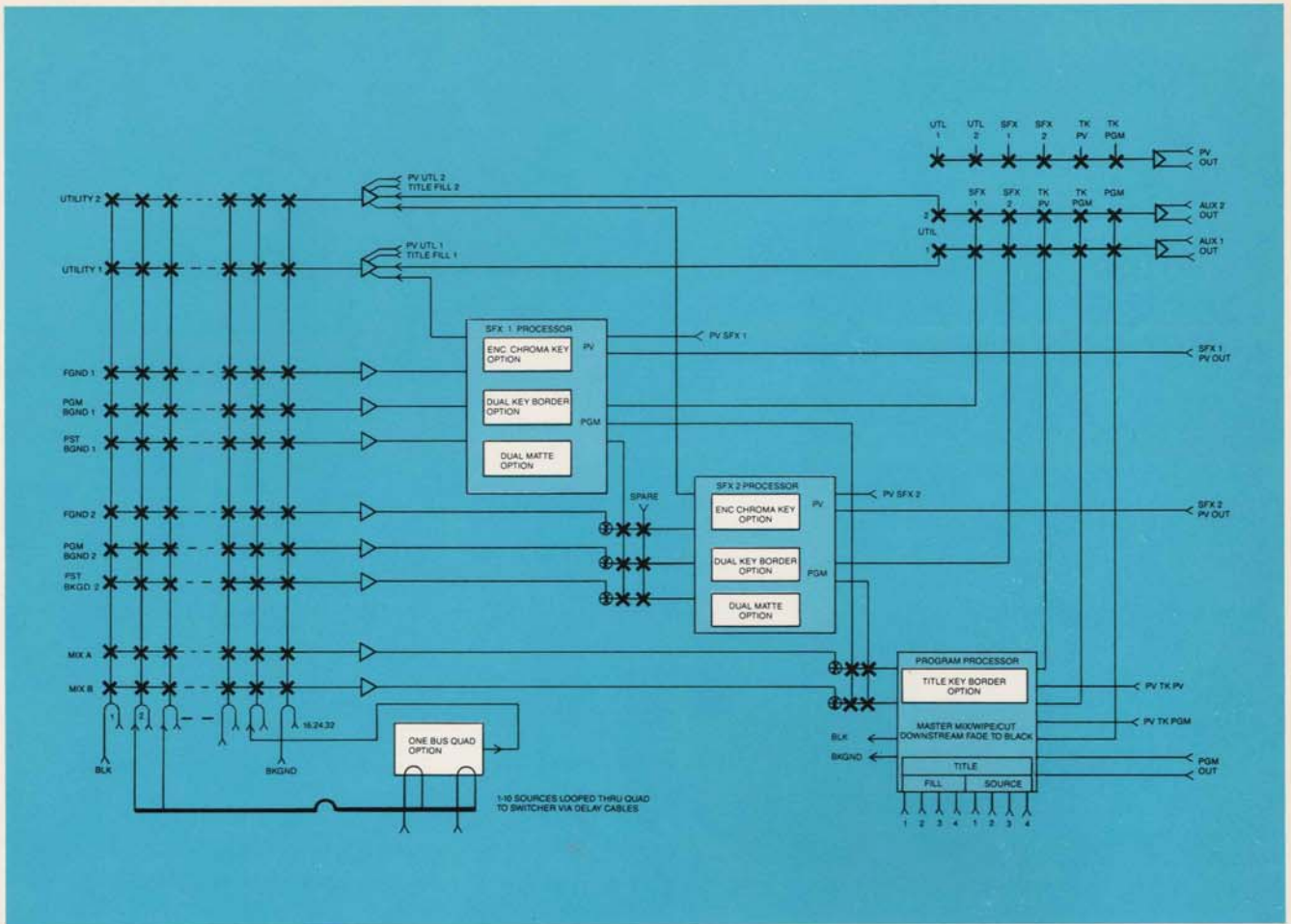


Figure 1
Wipe to a new Background behind the Chroma Key and Title.



Figure 2
Wipe from a Title keyed over a Chroma Key over a 3rd source to a 4th Source.



Figure 3
Wipe from a Chroma Key over one Background to another Chroma Key over another Background.

A touch of Genius . . . SFX

At the heart of every Series 80 switcher lies the reason producers around the world demand Central Dynamics equipment. Introduced in 1976, the SFX sequential effects amplifier still has the competition wondering how to catchup. Quite simply the SFX is still more powerful than any mix-effects amplifier available today.

The secret of the SFX is in its unique design which eliminates the limitations of traditional cascaded mix-effects groups. With a single fader handle you control four video signals and three transition levels in any combination, more power than three conventional fader

handles. An SFX is impossible to lock-up, so it is always ready for your next move. Transition preview is available at the touch of a button so you maintain creative control.

How you use the power of an SFX group depends only on your imagination. Preplanning of sequences is not necessary because the automatic preview keeps you one step ahead. The basic versatility of the SFX system is illustrated by the simple example above. But to really understand the genius of an SFX you have to experience a Series 80 switcher from Central Dynamics.

Information for optional modules and systems

CD 1080 Standard Equipment

- 16 video input switcher panel and rack electronics
- 10 bus matrix consisting of:
 - Utility 1
 - Utility 2
 - Foreground 1, Foreground 2
 - PGM Background 1, PGM Background 2
 - PST Background 1, PST Background 2
 - Mix A
 - Mix B
- 2 SFX Amplifier systems, each with:
 - SFX Mode Module with Color Matte Generator
 - Key Mode Module with Mask Generator
 - Wipe Mode Module with Pattern Generator
- 1 Program Processor system with:
 - Background and/or Title transitions
 - 4 x 1 Title selector of Title source and fill
 - Color matte generator
 - Mix, Wipe, Cut transitions
 - Downstream Synchronous or Non-synchronous Fade to Black
- One Color Black and one Background Generator
- Control Cables, extender cards, one set of manuals.

Specifications

- Video inputs:
 - 16, 24, 32 1Vp-p, synchronous or non-synchronous.
 - 75 ohm loop thru.
 - Return loss better than 40 dB to 5 MHz.
- Video outputs:
 - 1V p-p
 - 2 Program
 - 2 Preview
 - Return loss better than 34 dB to 5 MHz.
- Frequency Response:
 - 1-5 MHz \pm .1 dB
 - 5-7 MHz + .2 dB, - .5 dB
 - Steady roll off above 7 MHz.
- K Rating: Kp Kp - b, 1/4% K; Kb, 1/2% K.
- Linearity: Better than 1%, 10-90% APL
- Diff. Gain, Phase: Less than 1%, 1° = 10-90% APL
- Crosstalk:
 - Better than -56 dB at subcarrier frequency.
 - One adjacent input hostile, all paths energized except path under test.
- S/N ratio: Better than 60 dB to 5 MHz.
- Tilt, Line Field: Less than 1% with standard window.
- Tally outputs: 2 independent tally circuits rated 2A @ 30 VDC.
- Path length: 600 nS typical
- Input power: 117V or 234V 10%, 50/60 Hz, 900 VA typical
- Mechanical dimensions:
 - Rack electronics, 36RU, (73"/1600 mm)
 - Control Panel: 16 input, 47 5/8" W x 22 3/4" H (1209 x 578 mm)
 - 24 input, 53 1/8" W x 22 3/4" H (1349 x 578 mm)
 - 32 input 59 1/8" W x 22 3/4" H (1501 x 578 mm)

CD1080 Optional Modules and Systems	Model Number	Add'l Rack Space	
16 Input Switcher	1080-16	STD	
24 Input Switcher	1080-24	0	
32 Input Switcher	1080-32	0	
Dual Key Border (SFX)	DKB	0	
Dual Matte Generator	DMG	0	
2nd Background Generator	BG-2	0	
Extended Effects (Spin, Matrix, Rotary, Star . . .)	EE	0	
Digital Video Effects Interface	DI	0	
Quadplexer	Q	0	
One Bus Quad	OBQ	2	
Auto Transitions (SFX-1, SFX-2, Mix)	AT-3	0	
Auto Transitions (PGM Fade to Black)	AT-4	0	
Title Key Border (Program Processor)	TKB	0	
Audio Follow Switcher (8x2 Mono)	AFM	6	
Audio Follow Switcher (8x2 Stereo)	AFS	6	
Encoded Chroma Keyer	EK-0	2	
Encoded Chroma Keyer	EK-1	0	
4xRGB with Quad 6xRGB Follow/Manual Input Switcher	RKS-4	3	
6xRGB with 6x6 Follow/Manual Output Selector	RKS-6	3	
Cap Master + Fader Learn	CAP1XL	13	
Cap Master/Slave + Fader Learn	CAP2XL	13	
Edit Controller Interface	EIF	3	



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