

ADO™ 2000 DIGITAL EFFECTS SYSTEM

General

Designed for broadcast and production facilities, the ADO 2000 digital effects system provides the finest picture quality comparable to top-of-the-line systems and an array of features tailored to live production requirements.

The system can be expanded to include up to four channels and eight control panels. And by following an upgrade path, powerful options like the Digi-Matte™ key processor and Digi-Trail™ target framestore can be added to give your system capabilities unmatched by any other effects device.

The ADO 2000 system can even be converted into an ADO 3000 system, with options like the Concentrator with the incredible Infinity™ package. And all options and upgrades can be installed in your own facility.

The basic ADO 2000 system provides instant access to 30 on-line, pre-programmed effects that can be incorporated into live programming with one or two keystrokes.

More versatile than a "shot-box," this feature allows you to:

- Run effects forward and backward
- Slew from any present picture location to the beginning of any effect
- Specify 10 position effects in 3D space, and choose different types of transitions to reach those positions
- "Trim" each effect as a minor adjustment for X and Y position, and/or size

The ADO 2000 system is designed to be an integral part of a complete production facility, so it interfaces easily with your existing equipment.

Input and output options are available for all signal standards, including Component Analog and CCIR-601 Digital.

A SMPTE RS-422 serial editor port lets you run effects from the control panel of serial editors like the Ampex ACE. And an ADO/AVC

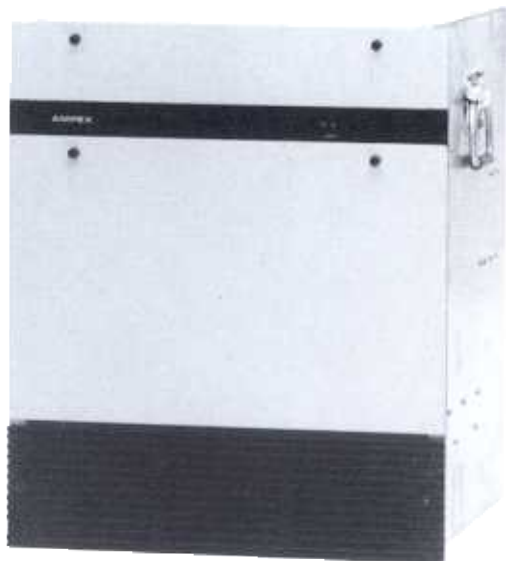
interface is available for live, error-free effects control from your Ampex switcher.

Effect parameters can be displayed in two ways: *all* the parameters for a given keyframe, or a *single* parameter across *all* keyframes.

Versatile "keyframe flags" act as switches; they can turn any variable within an effect on or off at any time during the effect.

Cataloging effects can be by either number or name for fast, accurate recall.

The system's frame-based processing and unique engineering features like separable architecture, eight-point digital filtering, 64-point spatial interpolation, adaptive comb filtering and chroma signal pre-decimation all combine to provide the finest picture quality in the industry.



Features and Effects

- Frame-Based Processing for Highest Possible Performance
- 30 On-line Effects with One or Two Button Execution
- A/B Video Inputs
- Continuously Variable Compression and Expansion
- Variable Aspect Ratio
- Horizontal and Vertical Mirrors
- GPI Control Input
- Independent Picture and Key Cropping
- Highly Adjustable Mosaics
- Posterization and Solarization
- Luma and Chroma Reversal
- Picture Blur
- Field or Frame Freeze
- Adjustable Soft Key Border Edges
- Color Border Generator
- Multi-Panel, Multi-Channel Software
- Logical Keyframe Programming
- Straightforward Numerical Programming
- Comprehensive CRT Display
- Channel Identification
- Global Motion Control
- Auto Cube Mode
- Selectable Motion Types
- Forward/Reverse Run Modes
- Alphanumeric Effect Storage
- Disk Copy Function
- Serial Switcher Interface
- Serial Editor Interface

Optional Features and Effects

- True 3D Rotation and Perspective
- Digi-Matte™ Key Processing
- Digi-Trail™ Target Framestore
- Component Analog (RGB, YUV) Kit
- SMPTE/EBU CCIR-601 (4:2:2) Digital Interface
- Up to Eight Control Panels
- Up to Four Signal Systems
- Digital Combiner

Specifications

PERFORMANCE

Luminance frequency response: NTSC ± 0.5 dB to 4.2 MHz; +0.5 – 1.0 dB to 5.0 MHz
PAL ± 0.5 dB to 4.5 MHz; + 0.5 – dB to 5.0 MHz

Input video level range: +2 dB

DIGITAL SIGNAL SAMPLING

Luminance sampling rate: 13.5 MHz

SIGNAL SYSTEM INTERCONNECTS

Video Inputs: Two, BNC 75 Ohm, 1 Volt, Composite, Analog Encoded

Key Inputs: Two, BNC 75 Ohm, Composite or Non-Composite, Analog Encoded (white or black in key hole)

Video Outputs: Two, BNC 75 Ohm, 1 Volt, Composite, Analog Encoded

Digital Signal Data: To Combiner: Balanced ECL Digital Data, 15 feet max, multi-wire cable supplied with Concentrator

Digital Control Data: RS-422, 4-wire plus shield, 9-pin 'D' Connector Communication line. Remoteable 2000 ft. (600 meters between control panel and signal system)

CONTROL SYSTEM

Detachable keyboard with 3-axis joystick Remote data display output (non-synchronous)
9-inch CRT for data display GPI Trigger Input
Mini-floppy disk drive for effect archiving Serial Control—ACE Interface

POWER CONSUMPTION

110-120 VAC, 60 Hz or 220-240, 50 Hz— single phase

Signal System: 1400W

Control System: 100 W

PHYSICAL

Signal System Chassis:

Dimensions: 22.72" (58 cm) H x 17.5" (44.5 cm) W x 22" (55.9 cm) D

Weight: 200 lb (90 kg.)

Can be mounted in 19" equipment rack or free-standing as a tabletop unit

Control System:

Monitor Housing contains 9" CRT and mini-floppy disk drive

Dimensions: 11.75" (30 cm) H x 15.25" (39 cm) W x 14.5" (37 cm) D

Weight: 30 lb (13.5 kg.)

Keyboard:

Dimensions: 3.25" (8 cm) H x 15.25" (39 cm) W x 7.75" (20 cm) D

Weight: 8 lb (3.6 kg.)

Specifications subject to change without notice or obligation.

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