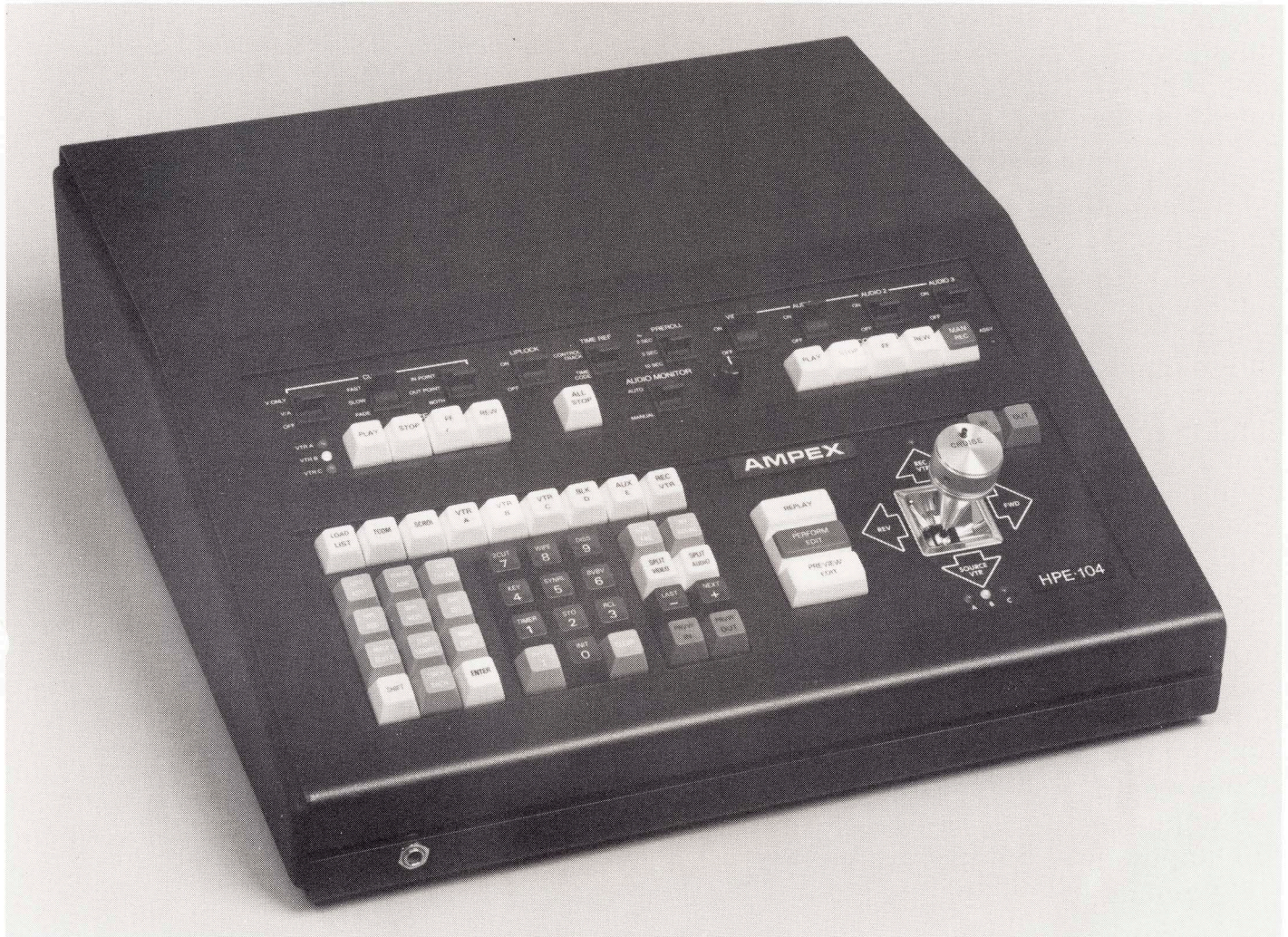


AMPEX

HPE-104 List Management Editing System



The HPE-104 edit controller combines list management power in an attractively priced, flexible videotape editing system designed for the cost-conscious user. For existing users of HPE-1B or HPE-1C systems an attractive enhancement package is also offered to upgrade these units to HPE-104 performance.

With the HPE-104 you can edit totally from pictures and sound; there is seldom a need to take your eyes off the screen or miss a word of audio. Tapes can be moved in either direction at any selected speed, while the list continuously follows the VTR time and is always available, edit by edit.

Tape clean-up and automatic synchronization of multiple video and audio tape recorders are standard functions. Up to four VTRs — three source and one record — can be used simultaneously.

Features

Joystick scroll — lets you edit from pictures and sound, searching up and down, with the list automatically following the VTR and always available, edit by edit, or by control of the joystick.

Time search — provides direct, automatic access of the list to any known time location on either the record or source tapes by a simple keyboard entry.

Clean-up — an industry-recognized clean-up process is standard.

Auto list cleaning — eliminates overlaps automatically to help keep the list clean as you edit, saving time as you go.

Sync command — keeps multiple video and audio tape recorders synchronized to maintain continuity of edits when doing a sync roll.

Program verification — starts automatically when power is turned on to verify proper operation of all programs within the system.

Auto matching — allows the operator to match the source and record VTR in-edit points at any location within the previous edit, with one keystroke.

Additional Standard Features

- Auto assembly with individual audio select
- Full sync roll with listing
- Over 800 edit lines internal storage
- Add, replace, delete and block moves
- "Exchange" — alternate edit register
- Preview BVB/VBV/In/Out/In-Out/Open
- Dedicated reel number and edit number keys
- Utilizes user bits in time code as alternate time-code source
- Conversion of existing HPE-1 series editors to HPE-104 is available

Available Accessories

Floppy disk system, time code reader system, special effects switcher, hard copy printers, animation control.

HPE-104 specifications

BASIC EDITOR

Dimensions: 17" W x 5¼" H x 18½" D*
(432 mm W x 133 mm H x 470 mm D)

Weight: 40 lb.
(18.1 kg)

Input Power: 2 amps @ 105-125 volts, 47-63 Hz
1 amp @ 210-250 volts, 47-63 Hz

AMBIENT OPERATING CONDITIONS

Temperature: 0°-45°C
Humidity: 10% to 90% RH (non-condensing)

*Connector panel is on the rear apron. Allow minimum of 9" (229 mm) for connectors and cable dressing.

Machine interfaces are available for VPR-1, VPR-2 and some other 1" and ¾" VTRs.

FLOPPY DISK SYSTEM

DATA INPUT/OUTPUT

Two independent RS-232 serial data ports for I/O to editor and output to printer/punch

Printer port equipped with 20 ma current loop interface

Independently selectable data rates per port including 110, 150, 300, 600, 1200, 4800, and 9600 baud

25-pin subminiature D series connectors (editor port female, printer port male)

DISK DRIVES

Two 5.25" (133 mm) floppy type

Single-sided dual density soft-sectored 40 track format

ELECTRICAL

Line Voltage 115/230 VAC ±10%
Line Frequency 50/60 Hz ±10%
Power Dissipation 75 watts maximum

ENVIRONMENTAL (operating limits)

Temperature 40°F to 115°F (4°C to 46°C)
Relative Humidity 20% to 80%

MECHANICAL

Width 17.5" (444 mm)
Height 5.5" (139 mm)
Depth 8.5" (215 mm)
Weight 19 lb. (8.6 kg)

TIME CODE READER ACCESSORY

Dimensions: Standard 19" (483 mm) rack mounting
7" (178 mm) high

Input Power: 1 amp @ 105-125 volts, 47-63 Hz
0.5 amp @ 210-250 volts, 47-63 Hz

AUDIO/VIDEO SWITCHER

Dimensions: Standard 19" (483 mm) rack mounting
3.5" (89 mm) high

Input Power: 0.3 amps @ 105-125 volts, 47-63 Hz
0.2 amps @ 210-250 volts, 47-63 Hz

Unit provides one (1) video and two (2) audio inputs to each of five (5) sources. (VTR A, B, C, Auxiliary and black) for use with multi source system not requiring A-B rolls.

VIDEO

Input Impedance: Bridging (5)
Input Level: 1 Volt P composite (nominal)
Output Impedance: 75 ohm
Output Level: 1 volt P-P composite (nominal)
Differential Gain: 1% at 1 volt P-P, 3.58/4.43 MHz
Differential Phase: 1° at 1 volt P-P, 3.58/4.43 MHz
Response: Flat to 5 MHz ±0.5 dB

AUDIO

Input Impedance: Bridging or 600 ohm switchable balanced (5)
Input Level: 0 dBm (nominal)
Output Impedance: 600 ohm balanced
Output Level: 0 dBm (nominal)
Response: Flat to 10 kHz ±0.5 dB
Total Harmonic Distortion: 0.5% at 10 kHz max.

PROFESSIONAL SWITCHER/EFFECTS

Dimensions: Standard 19" (483 mm) rack mounting.
17" (432 mm) without rack-mount brackets.
Height: 8¾" (222 mm)
Depth: 15½" (394 mm)
Weight: 36 lbs (16.3 kg)

Input Power: 3 amps @ 95-125 volts, 47-63 Hz
1.5 amps @ 210-250 volts, 47-63 Hz

VIDEO

Frequency Response: ±0.2 dB to 6 MHz
±0.5 dB, 6 MHz to 9 MHz
K Factor (2T Pulse): 1% max
Crosstalk: 60 dB @ 3.58 MHz, 57 dB @ 4.43 MHz,
all inputs driven synchronously

Signal-to-Noise: 60 dB wideband
Return Loss (input): -38 dB to 5 MHz
Differential Gain and Phase: Less than 1% and 1°
Chrominance/Luminance Delay: <±10 ns
Differential Path Delay: ±1° max
Line/Field Tilt: Less than 1%
Chrominance Phase Shift (during mix): ≤2° p-p
Video Inputs: 1.0V nom, Hi-Z looped BNC
Timing Inputs: Comp Sync: 4.0 V p-p nom looping
Comp Blanking: 4.0 V p-p nom looping

Video Outputs: 75 ohms, unity gain

AUDIO

Input Z: 600/10K switchable, balanced
Input Level Maximum: +20 dBm
Input CMRR: ≥50 dB @ 1 kHz
Frequency Response: 20-20 kHz, ±0.5 dB (ref. 1 kHz)
THD: 20-20 kHz, less than 0.5% (at +8, unweighted)
Signal-to-Noise: 82 dB (ref. +20) (unweighted)
Crosstalk: 70 dB 20-20 kHz (ref. +8 to all other inputs)
Output Level: +8 dBm nom, +20 dBm max
Output Z: Less than 30 ohms, balanced, short proof

Provides one (1) video and two (2) audio inputs for each of five (5) sources. (VTR) A, B, C, Auxiliary and black).

The Cut mode provides vertical-interval switching from one source to a second source.

The Dissolve mode provides dissolves between two sources with a programmable duration of up to 255 frames.

The Wipe mode provides 23 wipes of patterns from one source to another with a programmable duration of up to 255 frames. They may be programmed for either hard or soft edges and all effects are reversible.

The Key mode provides a fade-up, a fade-down or both of a keyed foreground into a background. The background may be faded from or to black. The fade durations are programmable for up to 255 frames and start of the keypad signal may be delayed for up to 255 frames from the start of the edit.

During all durations except background fade, the audio is dissolved from one source to the other.

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