

KENNEDY CO.

WORLD'S LEADER IN LOW-COST DIGITAL RECORDERS



SYNCHRONOUS SERIES

The Kennedy Model 8197 is a Read-Only tape transport which is capable of reading any tape generated in an IBM compatible format. It brings a new dimension of versatility to the low-speed tape transport field.

Model 8197 reads tapes at 7-track, 200, 556 or 800 cpi, as well as 9-track, 800 or 1600 cpi. Read outputs to the user are in the form of 7- or 9-channels of de-skewed information, plus a read clock for each tape character.

When reading tapes in the NRZ1 format, each character is checked for proper vertical parity and each block is checked for proper longitudinal parity. Should either a vertical or horizontal parity error occur, an output is sent to the interface. In addition, Gap Detect and File Mark detected outputs are provided for ease of interfacing.

When reading tapes in the phase-encoded format, the read outputs are available in the same form as in NRZ1. In addition, the postamble, preamble, and identification burst are detected and stripped from the data outputs. Single-track dropouts are automatically corrected on the fly by substituting the parity track for the defective channel. Also, the following error indications are signalled to the interface: Vertical Parity Error; Multiple Track Error, Preamble Not Detected; Postamble Not Detected; and Skew Register Overflow.

Tape drive system

The 8197 utilizes a velocity-controlled high-performance 180° wrap single-capstan drive. Tape speeds, including rewind, are under capstan control at all times while maintaining an ISV of $\pm 3\%$ and LTSV of $\pm 1\%$.

Tape tension is maintained by reel servos responding to signals generated by photo-electrically controlled mechanical buffer arms.

Tape guiding duplicates that of IBM transports and tape loading is simple and straightforward allowing ease of loading by inexperienced personnel. Tape wear is minimized by the fact that the oxide touches friction points in only two places.

Electronics

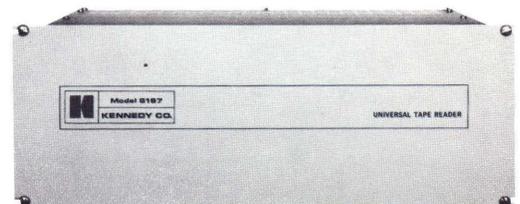
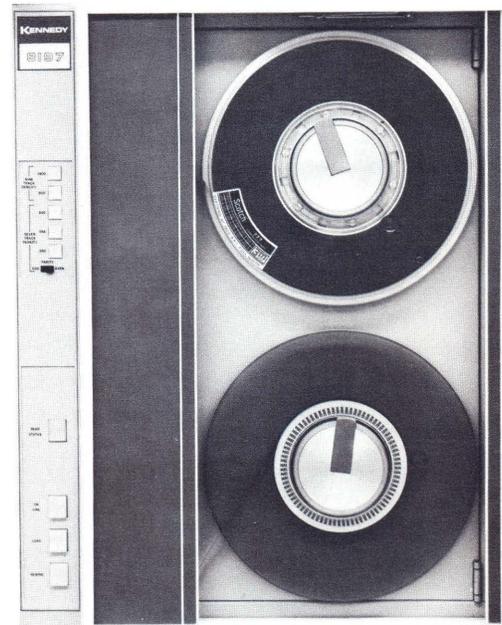
All electronics utilize silicon solid-state and integrated circuits throughout which insures high-reliability and simplicity of design.

Small functional printed circuit cards together with motherboard construction eases spare card stocking costs and reduces maintenance downtime.

The Model 8197 is provided with Read-Only electronics. Reading format is 7-track, 200, 556 or 800 cpi and 9-track, 800 or 1600 cpi.

Synchronous magnetic tape recorder

MODEL 8197 Universal tape reader



KENNEDY CO.

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SPECIFICATIONS: MODEL 8197

Data Density:	200, 556, 800, 1600 cpi
Number of Tracks:	7 and 9
Tape Format:	NRZ1, Phase-Encoded, IBM-Compatible
Tape Velocity:	10–25 ips
Instantaneous Speed Variation:	±3%
Long Term Speed Variation:	±1%
Start/Stop Time:	15 ms ± 1 ms at 25 ips inversely proportional to tape speed.
Start/Stop Displacement:	0.1875" ± 0.0125"
Tape Tension:	8 oz. ± 0.5 oz.
Reel Size:	10½"
Drive System:	Single-capstan drive, 180° Wrap
Rewind Speed:	150 ips nominal
Read Outputs:	7- or 9-lines plus clock automatically de-skewed.
Electronics:	DTL Logic
Tape Unit Interface:	DTL Low True
Physical Dimensions:	19" W x 31.5" H x 11" D
Mounting:	Standard EIA Rack
Weight:	100 lbs.
Power:	115/230 Vac ± 10%, 48–500 Hz
Operating Temperature:	+2° to +50°C.
Humidity:	15% to 95% non-condensing
Altitude:	0 to 30,000 feet
Options Available:	37.5 ips