



JH-32 SERIES

- ★ Two or three inch master tape recorder
- ★ 16, 24 or 32 track models available
- ★ Quick change heads with automatic level switching
- ★ Modular construction
- ★ Automatic line output switching for over dubbing
- ★ Full track erase
- ★ All logic control done with dual micro-processors
- ★ No input transformer
No output transformer
No head transformer
- ★ All electronic balanced inputs and outputs.
- ★ Remotely computer controllable (RS232 interface)
- ★ Master level controls for Repro, Cue, Record, and Bias using no VCAs
- ★ Three pre-set alignment selections for levels
- ★ Automatic level correction for changing speed
- ★ Optional dual line amps with dedicated output, Cue or repro
- ★ 20 ips for maximum performance and tape economy
- ★ Separate Repro and Cue equalizers
- ★ Three speed operation
- ★ Instant standard switching of NAB/IEC
- ★ Small remote cable up to 1000 feet
- ★ AutoLocator III available
- ★ Microprocessor based
- ★ 10 memory locations
- ★ Tape velocity indicator with simultaneous pitch shift indication in 1/4 semitones
- ★ Plug-in compatible with AutoLock
- ★ Separate brochures available on AutoLock and AutoLocator III



PRELIMINARY SPECIFICATIONS

OVERALL PERFORMANCE

Frequency Response

	Record/Reproduce	
30 ips, AES	50 Hz - 30 kHz	+1/- 2 dB
20 ips	30 Hz - 28 kHz	+1/- 2 dB
15 ips, NAB	30 Hz - 26 kHz	+1/- 2 dB

Signal-to-Noise

Record/Reproduce, reference to 510 nWb/m

	Unweighted, 20 Hz - 20 kHz		
	16 track	24 track	32 track
30 ips, AES	64	62	62
20 ips	63	61	61
15 ips, NAB	62	60	60

	Weighted, dB(A)		
30 ips, AES	68	66	66
20 ips	67	65	65
15 ips, NAB	66	64	64

Distortion

Intermodulation

(70/7000 Hz, 4:1 ratio, SMPTE)
at 350 nWb/m <0.8%

Harmonic distortion, 510 nWb/m, 1 kHz fundamental

3rd harmonic:	30 ips, AES	.35%
	20 ips	.45%
	15 ips, NAB	.63%
2nd harmonic:	30 ips, AES	.01%
	20 ips	.01%
	15 ips, NAB	.01%
3% 3rd harmonic: fluxivity level	30 ips, AES	1040 nWb/m
	20 ips	1040 nWb/m
	15 ips, NAB	1020 nWb/m

Erase Frequency

105 kHz

Bias Frequency

238 kHz

Depth of Erasure

At 1 kHz better than 80 dB

Amplifier Electronics

Input impedance	30k ohms balanced
Output impedance	50 ohms balanced
Output clipping	+28 dBv balanced

TRANSPORT

Speeds

Fixed	15, 20 and 30 ips
Variable	±20% around fixed speeds

Configurations

2 inch	16 track
2 inch	24 track
3 inch	32 track

Reel sizes

7½, 10 and 14 inch
NAB hubs

Tension

9 oz. ±¼ at all play speeds beginning to end of reel

Long term speed stability

better than .02%

Wow Flutter

less than .04% DIN 45507 weighted

Start time

to .1% DIN 45507 flutter, 14" reels

30 ips	1200 msec
20 ips	1000 msec
15 ips	600 msec

Rewind time

2400 ft.	85 seconds
4800 ft.	140 seconds

SHIPPING WEIGHT

16 track	512 lbs.
24 track	530 lbs.
32 track	558 lbs.

Specifications subject to change as innovative advancements in technology are incorporated.



4007 NE 6th Avenue, Ft. Lauderdale, Florida 33334/Phone (305)566-2853/TLX 51 4362

TWA-0032-0001-79-CA