

TCD 3034 Cassette Deck

TANDBERG®

— The European Alternative

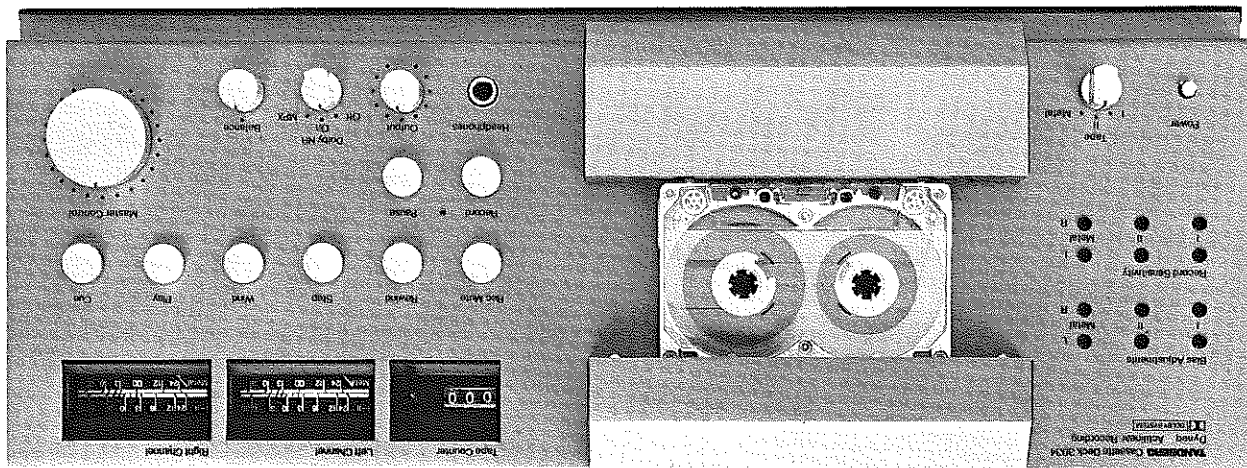
Tandberg TCD 3034 is designed to match the other separate components in the Tandberg "Series 3000".

However, other Hi-Fi equipment will also benefit the use of Tandberg TCD 3034.

In order to take full advantage of the metal tapes, new and unconventional technology is a necessity. It is extremely complicated to design a cassette deck with a combined record/playback head for metal tapes without compromising.

Tandberg has solved these problems by the help of its unique systems: DYNEQ® — the dynamic recording equalization system, and the ACTILINEAR® — the unique recording system, and the Multicore Senalloy record/playback head.

The result is: TCD 3034 the non-compromise two head cassette deck.



DYNEQ® — the dynamic recording equalization system

Conventional recording amplifiers have a steadily rising gain at high frequencies in order to obtain a flat frequency response over the entire audio frequency range. The rising gain, called "equalization", has a bad effect on high recording levels (loud passages), where a distortionfree performance is important.

Most recordings contain programme material with an energy distribution which falls at high frequencies. But occasionally there are peaks of energy in the high frequency region which can overload the tape in conventional recorders.

This will cause substantial increase in intermodulation distortion for programmes that have energy peaks at high frequencies.

To overcome this problem Tandberg engineers have developed a dynamic equalization amplifier — the DYNEQ®.

This amplifier is a self-regulating circuit where the signal level at the input determines the gain at high frequencies. The result is a drastically reduction in intermodulation distortion and optimum recordings for almost all types of music; even if the programme contains loud, complex high-frequency passages.

ACTILINEAR® — the unique recording system

The new generation of high coercivity metal tapes has put increased demands on Hi-Fi cassette decks. The Tandberg ACTILINEAR® recording system is one way of meeting these demands.

The ACTILINEAR® recording system which is a better way of designing the recording amplifier, offers a number of advantages compared to conventional designs.

These advantages are:

- less intermodulation
- less interference between the recording signal and the oscillator
- 15 dB overload margin which makes it very suitable for recording on high coercivity tapes including any metal tape.

By means of active semiconductor circuits the amplifier system also gives more linear recordings especially at high frequencies — hence the name ACTILINEAR®

Multicore Senalloy record/playback head

The very strong recording and bias currents required by the metal tapes will result in a saturation of an ordinary recording head and cause an unacceptable high harmonic distortion long before the tape itself is saturated. To overcome this Tandberg has chosen a diamond cutted multicore senalloy record/playback head, which has a far higher saturation limit. The senalloy cores will result in a drastic increase in the lifetime of the head.

Technical Data

Supply voltage	230 V ± 10%, 50 Hz (EU) 115 V ± 10%, 60 Hz (US)
Power consumption	30 watts
Tape speed	1 7/8" per second (4.75 cm/s)
Speed tolerance, maximum*	± 1.5%
Speed variations, maximum	
IEC	0.17%
Weighted RMS record/playback	0.12%
Frequency range (Hz) ± 3 dB	20 — 20000 Hz <i>METALL 20-18K, 2020</i>
Signal/tape noise measured with Metal tape	
IEC A-curve	66 dB
IEC Linear RMS	58 dB
Channel separation (attenuation) at 1 kHz, min.	
between sides A — B	> 65 dB
between tracks 1 — 2	> 40 dB
THD distortion	
from tape at 0 dB record level	< 2%
Erasing (Metal tape)	> 78 dB
Inputs	
Input impedance/sensitivity/max. volts with 400 Hz	
Input Left/Right	15 k ohms/80 mV
Outputs	
Minimum load impedance/max. voltage with unloaded output	
Output Left/Right	100 ohms/1.0 V
Headphones	8 ohms/1.5 V
Dimensions	
Width	17 1/8" (43.5 cm)
Height	6 1/2" (16.5 cm)
Depth	6 7/8" (17.5 cm)
Weight	15.15 lbs (7 kg)

* With nominal mains voltage/frequency and normal operating temperature.

Optional Extras:

- Side walls.
- Rack handles.
- Dust cover for the cassette compartment.
- Professional rack mounting kit for 19" IES (DIN) standard rack.

● Specifications are subject to change without notice.

*WLF: 215 WRMS 0/22
DM 45507 0,1576*

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