

TANDBERG

Tandberg Series 3000

The Tandberg Series 3000 – quite simply a new standard in sound reproduction. A totally integrated system of audio separates scaling new peaks in performance, reliability and elegance.

Tandberg set out to create the ultimate system. A system against which others would be judged. A system with no compromise.

The result is a masterpiece of European Technology. Components which, separately, define the state of the art in their field. And which, together, approach sound perfection.

TPT 3001 Programmable FM Tuner

The sensitive ear of the 3000 series

Extremely low distortion.

- New decoder design eliminates beat notes.
- 8 ganged tuned circuits at the FM front end.
- Electronic memory for 8 preset FM stations.
- Pre-tuning system with 12-bit processor.
- Overall performance specification way above its competitors.
- 3 Bandwidths (Wide, Normal, Narrow.)

Specification

Bandwidth	Normal
50 dB quieting sensitivity	mono 0.9 μ V 10.3 dBf stereo 11.0 μ V 32.1 dBf
With noise filter ANC	5.0 μ V
10 dB channel separation	25.2 dBf
Signal to noise ratio	mono 95 dB
at 65 dBf (0.5 mV)	stereo 82 dB
at 85 dBf (5 mV)	stereo 92 dB

Distortion at 50 dB

Quieting	stereo	0.3%
Capture ratio		1.0 dB
Alternate channel selectivity \pm 400 kHz		90 dB
Spurious response ratio		>135 dB
AM suppression ratio		>70 dB



3001

TCA 3002 Control Amplifier
The command module of the 3000 series

- Phono inputs with buffer stages, passive 75 μ s de-emphasis and active bass boost.
- High slew rate, 300 V/ μ s in the Moving Magnet and the Moving Coil input stages.
- Inductive Emitter Compensation – 9 dB/octave – slope in the MM and MC input stages for maximum speed stability, high open loop frequency response, minimum static and dynamic distortion and symmetrical square wave.

Specification

Technical Data according to IHF-A-202, 1978	
A-weighted Signal-to-Noise Ratio	
Phono MM:	80 dB
Phono MC:	74 dB
Tape 1, Tape 2:	97 dB
Tuner, AUX:	97 dB
Total Harmonic Distortion (20 – 20000 Hz)	
Phono MM:	< 0.004%
Phono MC:	< 0.004%
Tape 1, Tape 2:	< 0.004%
Tuner, AUX:	< 0.004%



3002

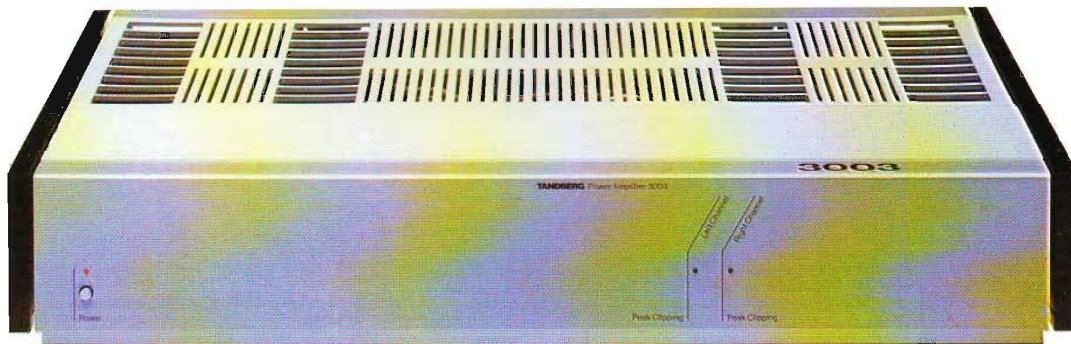
TPA 3003 Power Amplifier
The powerful heart of the 3000 series

- High power output in a small cabinet.
- High slew rate, 70 V/ μ s due to input stage emitter compensation – 9 dB/oct. slope.
- Peak clipping indicators.
- 5 protection circuits.

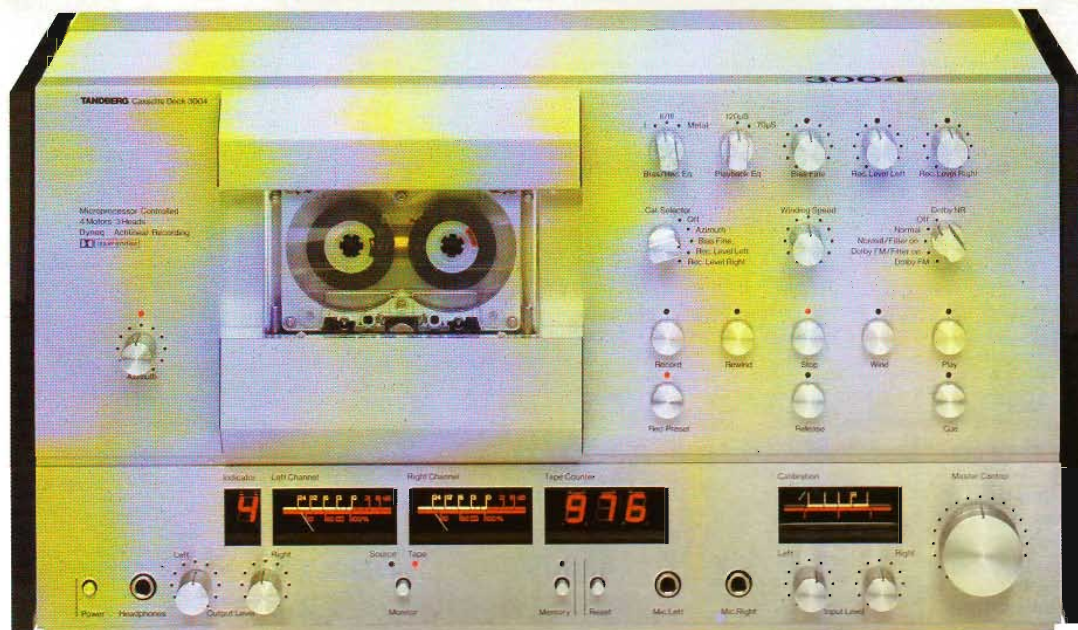
Specification

Technical Data according to IHF-A-202, 1978	
Continuous Average Power Output: (8 ohms, 20–20000 Hz, THD <0.02%)	
	2x150 W
SMPTE Intermodulation Distortion:	<0.02%
IHF Intermodulation Distortion:	<0.02%
Transient overload recovery time:	Immeasurable

Frequency Response:	20–20000 Hz +0/–0.2 dB
Sensitivity:	1 V
A-weighted Signal-to-Noise Ratio: Ref. 1 W/8 ohms	98 dB
Ref. 150 W/8 ohms	120 dB



3003



3004

TCD 3004 Cassette Deck

The real professional cassette deck.

- Meets all professional requirements for a cassette deck.
- Can be optimised for all tapes on the market without the use of external meters, and without internal adjustments.

- New professional microprocessor-controlled 4-motor, Dual Capstan tape drive mechanism.
- Advanced electronics, with Dyneq equalisation, Actilinear recording- and phase correction circuits.
- Remote control facility.
- Variable winding speed.
- Cueing with automatic tape speed reduction.
- Function indicator.

Specification

Frequency range (± 3 dB):	19-21000 Hz
Signal/tape noise (IEC A-curve):	70 dB
THD distortion at 0 dB rec.level:	<3%
Speed variations (wow) WRMS R/P:	0.09%
Erasing on metal tape:	80 dB

TML 3005 Monitor Loudspeaker

Professional Loudspeakers from Tandberg, featuring

- A four-way four-element speaker system.
- Vented 65 litres cabinet.
- 3 separate contour controls for adjusting the upper and lower midrange as well as the tweeter levels.
- Automatic overload protection circuits preventing damage to the upper midrange and tweeter units.
- Overload indicators are visible through the door panels.

- Symmetrical pairs with angled baffles to give correct sound distribution in a normal listening position.

Specification

Cabinet internal volume:	65 litres net
Frequency range (DIN 45500):	30-20 000 Hz
Characteristic sensitivity in position 0 (1 W/1 m):	90 dB
Max. cont. power:	150 watts
Music power:	200 watts

Crossover frequencies: 450 Hz, 1800 Hz, 4000 Hz

Resonance: Helmholtz 35 Hz as a vented cabinet

Height with base: 34 5/8" (88 cm)
Width: 23 5/8" (60 cm)
Depth: 11 5/8" (29,5 cm)



3005

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The European Alternative.

TR 2030 – 30 watts FM Stereo Receiver

For music systems whose intimate listening areas do not require enormous power outputs, but where no compromise in musicality is permitted, the Tandberg TR 2030 is an ideal choice.

Specification

Technical Data according to IHF-A-202, 1978
 Continuous Average Power Output:
 (8 ohms, 20–20000 Hz, THD <0.09%) 2x30 W
 IHF Intermodulation Distortion: <0.09%
 Signal/hum and noise ratio, IHF A-network.
 Max output 8 ohms load.
 Tape/Phono 82 dB/77 dB

RF Section

50 dB quieting sensitivity 300 ohm.
 Mono/Stereo 3,5µV/16,2 dBf/40µV/37,3 dBf
 Signal/noise ratio by 1 mV aerial voltage
 (65 dBf) according to IHF.
 Mono/Stereo 76 dB/74 dB



2030

TR 2045 – 45 watts FM Stereo Receiver

The TR 2045 proves that neither performance nor convenience need be sacrificed in a medium-powered receiver.

Specification

Technical Data according to IHF-A-202, 1978
 Continuous Average Power Output:
 (8 ohms, 20–20000 Hz, THD <0.09%) 2x45 W
 IHF Intermodulation Distortion: <0.09%
 Signal/hum and noise ratio, IHF A-network.
 Max output 8 ohms load.
 Tape/Phono 82 dB/77 dB

RF Section

50 dB quieting sensitivity 300 ohm.
 Mono/Stereo 3,5µV/16,2 dBf/40µV/37,3 dBf
 Signal/noise ratio by 1 mV aerial voltage
 (65 dBf) according to IHF.
 Mono/Stereo 76 dB/74 dB



2045

TR 2060 – 60 watts AM/FM Stereo Receiver

Advanced amplifier design, featuring high slew-rate, fast rise-time, low Dynamic Intermodulation Distortion (DIM) and Tandberg's unique Electronic FM Tuner 4 section.
 Also available with LW - TR 2060L.

Specification

Technical Data according to IHF-A-202, 1978
 Continuous Average Power Output:
 (8 ohms, 20–20000 Hz, THD <0.07%) 2x60 W
 IHF Intermodulation Distortion: <0.07%
 Signal/hum and noise ratio, IHF A-network.
 Max output 8 ohms load.
 Tape/Phono 82 dB/76 dB

RF Section

50 dB quieting sensitivity 75 ohm/300 ohm.
 Mono/Stereo 3,5µV/16,2 dBf/40µV/37,3 dBf
 Signal/noise ratio by 1 mV aerial voltage
 (65 dBf) according to IHF.
 Mono/Stereo 76 dB/74 dB
 Sensitivity at 1 MHz, 30% modulation and
 20 dB signal/noise ratio 25µV



2060

TR 2080 – 75 watts AM/FM Stereo Receiver

The flagship of the line, Tandberg TR 2080 receiver combines an extraordinarily advanced amplifier design with a tuner section so audibly superior that we could use nothing less for our other receivers.

Specification

Technical Data according to IHF-A-202, 1978

Continuous Average Power Output:
(8 ohms, 20–20000 Hz, THD <0.05%) 2x75 W

IHF Intermodulation Distortion: <0.05%

Signal/hum and noise ratio, IHF A-network.

Max output 8 ohms load.

Tape/Phono

83 dB/77 dB

RF Section

50 dB quieting sensitivity 75 ohm/300 ohm.

Mono/Stereo 3µV/14.8 dBf/32µV/35 dBf

Signal/noise ratio by 1 mV aerial voltage
(65 dBf) according to IHF.

Mono/Stereo 78 dB/75 dB

Sensitivity at 1 MHz, 30% modulation

and 20 dB signal/noise ratio

25 µV



2080



420 A

TCD 420A Cassette Deck

The no compromise two-head metal-tape cassette deck

- Dyneq equalisation system.
- Actilinear recording.
- Diamond cut multicore senalloy record/playback head.
- Dual Capstan tape drive.
- 3-motor tape transport.
- Adjustable bias.
- Black or silver styling.

Specification

Frequency range (± 3 dB): 30–18000 Hz

Signal/tape noise ratio (IEC A-curve): 68 dB

THD distortion at 0 dB rec.level: <3%

Speed variations (wow)

WRMS R/P: <0.15%

Erasing on metal tape: >76 dB

TCD 440A – Cassette Deck

The advanced three head metal tape cassette deck

- Dyneq equalisation system.
- Actilinear recording.
- Full sound quality tape/source monitoring.
- 3 separate heads.
- Logic operated tape transport.
- Phase correction circuits.
- Infra-red remote control.
- Black or silver styling

Specification

Frequency range (± 3 dB): 20–20000 Hz

Signal/tape noise ratio (IEC A-curve): 70 dB

THD distortion at 0 dB rec.level: <3%

Speed variations (wow)

WRMS R/P: <0.12%

Erasing on metal tape: >76 dB

440A



TD 20A Tape Deck

The studio performance tape deck

Tandberg has long been best known for the craftsmanship and innovative excellence of its tape recorder. For years, Tandberg's Recording technique has set a performance standard for the industry, looking always for the best possible performance, not only of today's finest tapes, but of the coming generation of metal tapes. We determined that this could best be met through a radically new process we call Actilinear Recording.

- Actilinear recording.
- 4 motor tape transport.
- Full logic operation.
- Electronic Edit/Cue function.
- Infra-red remote control facility.
- 10½ inch reels
- 4 different models:
 - 4 track, low speed (3¾ and 7½ ips)
 - 4 track, high speed (7½ and 15 ips)
 - 2 track, low speed (3¾ and 7½ ips)
 - 2 track, high speed (7½ and 15 ips)

Specification (2 track, high speed)

Frequency range (± 3 dB):	20–30000 Hz
Signal/tape noise ratio (IEC A-curve):	69 dB
THD distortion at 0 dB rec.level:	<2%
Speed variations (wow)	<0.03%
WRMS R/P:	<0.03%
Speed Tolerance:	± 0,5%



20A TANDBERG