

# 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.

Electronic memory for 8 preset FM stations.

New discrete MPX decoder eliminates beat notes.

8 gang electronic FM front end.

Pre tuning system with 12 bit micro processor memory.

Switchable IF bandwidth – wide – normal – narrow.

Unparalleled overall performance specification.

## Specification:

Bandwidth		Normal
50 dB quieting sensitivity	mono	0.9 $\mu$ V 10.3 dBf
	stereo	11.0 $\mu$ V 32.1 dBf
With noise filter ANC 10 dB channel separation		5.0 $\mu$ V 25.2 dBf
	Signal to noise ratio at 65 dBf (0.5 mV)	mono
	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
Dimensions (cm)	W: 43.5 H: 8.3 D: 35.0	
(1 inch equalize 2.54 cm)		



# 3001

## TCA 3002 Control Amplifier

The command module of the 3000 series

High slew rate, 300 V/ $\mu$ s in the Moving Magnet and the Moving Coil input stages.

Buffered phono inputs, with split passive/active RIAA equalization.

Silent electronic input and tape switching with dubbing.

Calibrated volume and tone controls with tone defeat switch.

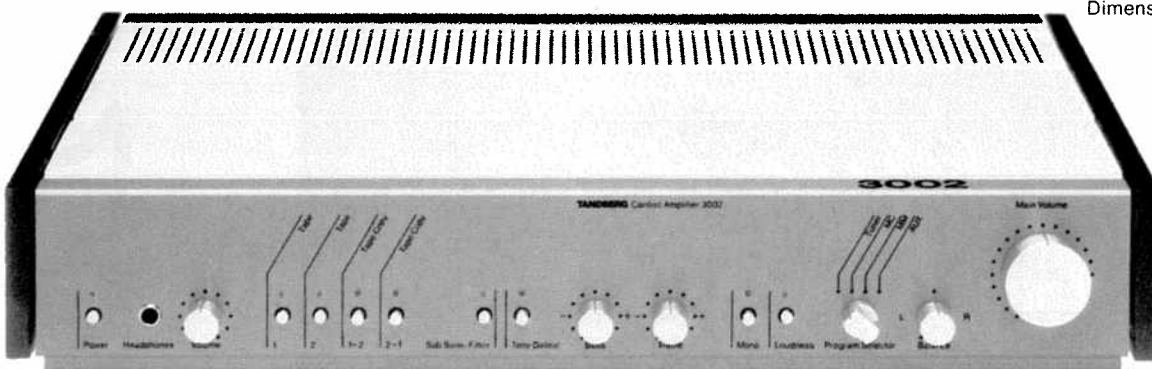
Minimum negative feedback loop for each amplifier stage, results in immeasurable TIM and DIM distortion specifications.

## 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%

Dimensions (cm) W: 43.5 H: 8.3 D: 35.0



# 3002

**TPA 3003 Power Amplifier**  
The powerful heart of the 3000 series

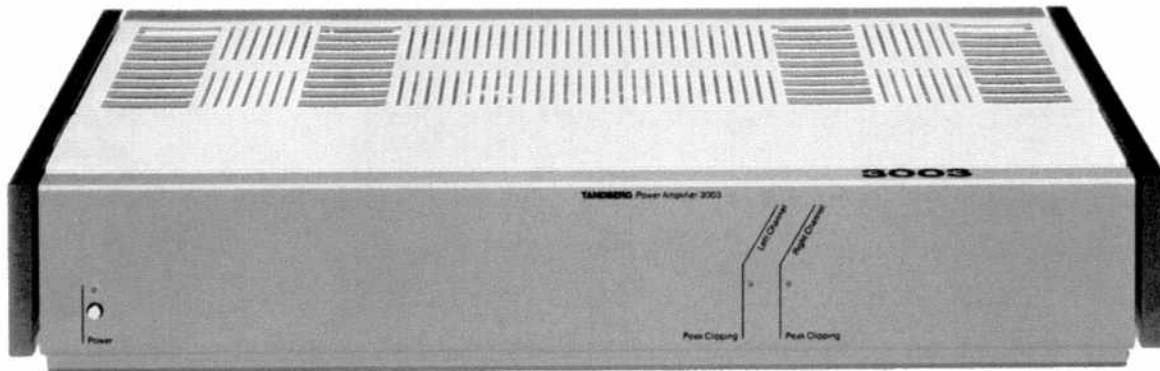
150 watts per channel in a most compact size.  
High slew rate, 70 V/ $\mu$ s.  
5 electronic protection circuits high efficiency chimney type heat sinks.  
Stable into any speaker load.

**Specification:**  
Technical Data according to IHF-A-202, 1978

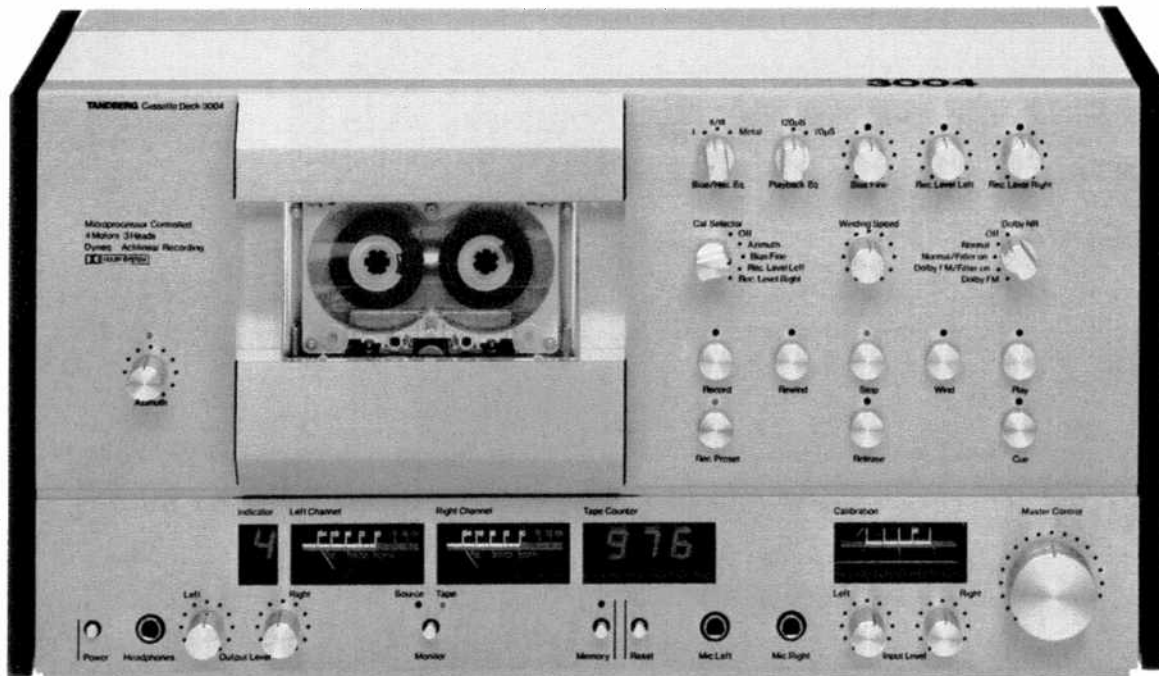
Continuous Average Power Output:  
(8 ohms, 20–20000 Hz, THD < 0.02%) 2 x 150 W  
SMPTE Intermodulation Distortion: < 0.02%  
IHF Intermodulation Distortion: < 0.02%  
Transient overload recovery time: Immeasurable

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  
Dimensions (cm) W: 43.5 H: 8.3 D: 35.0



**3003**



**3004**

**TCD 3004 Cassette Deck**  
Professional quality cassette deck.

Meets all professional standards for cassette recorders/reproducers.

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 head room expansion – Actilinear recording- and phase correction circuits.

Variable winding speed.

Cue/review with automatic tape speed reduction

Function indicator.

Optional remote control facilities

**Specification:**

Frequency range R/P ( $\pm 2$  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%  
Erasure on metal tape: 80 dB  
Dimensions (cm) W: 43.5 H: 22.9 D: 14.9

**TCD 3034 Cassette deck**  
Tandberg recording quality for budget minded audiophiles.

Dyneq head room expansion system.  
Actilinear recording.

Logic controlled.

Touch-button operated.

Peak reading high resolution meters.

Cue and review.

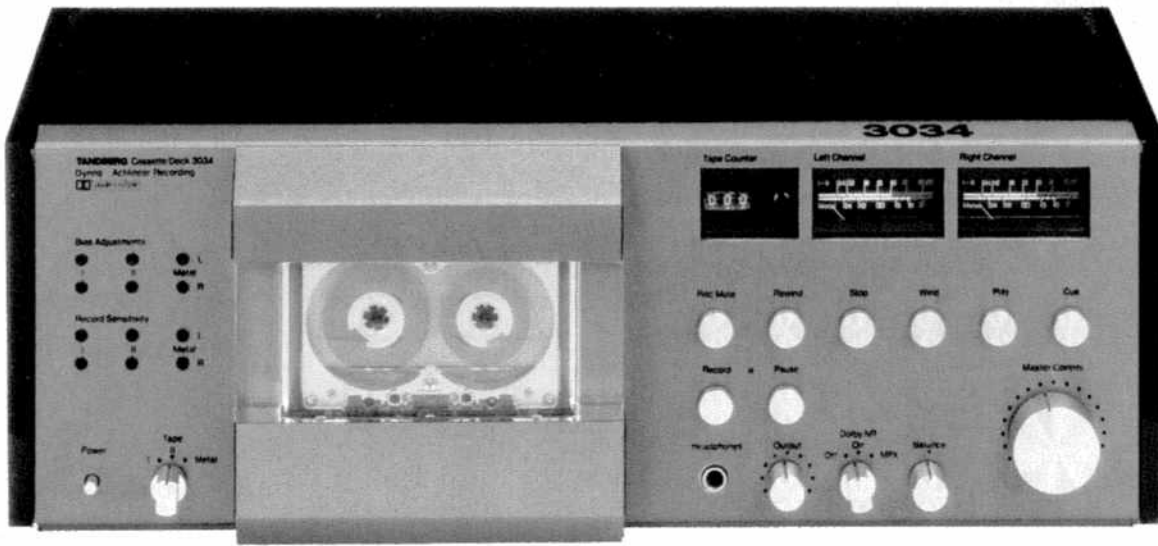
Master gain control with balance adjust.

Switchable MPX filter.

Diamond cut ribbon core sendust R/P head.

**Specification:**

Frequency range ( $\pm 3$  dB): 20–20000 Hz  
Signal/tape noise ratio (IEC A-curve): 68 dB  
THD distortion 0 dB rec.level: < 3%  
Speed variations (wow) WRMS R/P: < 0.12%  
Erasure metal tape: > 76 dB  
Dimensions (cm) W: 43.5 H: 16.5 D: 17.5



3034

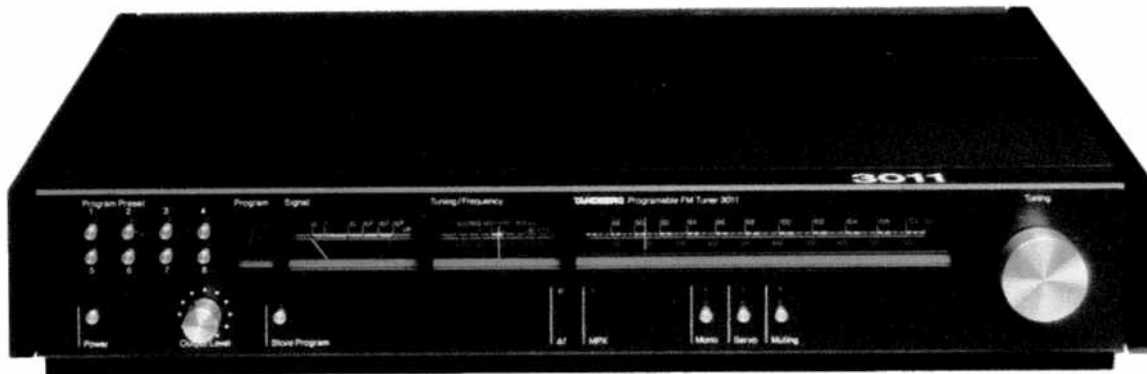
**TPT 3011 Programmable FM Tuner**  
Tandberg quality for the cost-conscious listener.

- 5 gang electronic FM front end.
- Electronic memory for 8 preset FM stations.
- Pre tuning system with 12 bit micro processor memory.
- High selectivity.

**Specification:**

50 dB quieting sensitivity	mono	1.5 $\mu$ V
	stereo	14.8 dBf 20 $\mu$ V 37.3 dBf
Signal to noise ratio at 65 dBf	mono	78 dB
	stereo	75 dB

Distortion at 50 dB quieting	mono	0.3%
	stereo	0.3%
Capture ratio		0.9 dB
Alternate channel selectivity $\pm$ 400 kHz		> 100 dB
Spurious response ratio		> 70 dB
AM suppression ratio		> 70 dB
Dimensions (cm)	W: 43.5 H: 8.3 D: 35.0	



3011

**TIA 3012 Integrated Amplifier**  
Unsurpassed listening quality.

- T.S.L. termic servo loop (pat.pending).
- Minimized MILLER effect.
- No electrolytic capacitors in the feedback chain.
- MC/MM/DD/AUX phono inputs.
- Power MOS FET output transistors.
- Extremely high slew rate.
- Peak clipping indicators.
- Semi-passive RIAA equalization..
- Passive, non inverting, calibrated tone controls.

**Specification:**

Continuous Average Power Output (8 ohms, 20-20000 Hz, THD < 0.015%)	2 x 100 W
Slew rate	1000 V/ $\mu$ s
Frequency response (-3 dB)	5 Hz-100 kHz
Sensitivity (Ref. 1 W/8 ohms)	
Phono MM	0.19 mV
Phono MC	16.0 $\mu$ V
Phono digital disc, aux.	15.0 mV
Tape, tuner	15.0 mV

A-weighted Signal to Noise ratio	
Phono MM	78 dB
Phono MC	73 dB
Phono digital disc, aux.	84 dB
Tape, tuner	84 dB
Maximum input signal	
Phono MM	250 mV
Phono MC	20 mV
Phono digital disc, aux.	> 5 V
Tape, tuner	5 V
Input impedance	
Phono MM	47 kohms
Phono MC	1 kohm
Phono digital disc, aux.	20 kohms
Tape, tuner	100 kohms
Dimensions (cm)	W: 43.5 H: 8.3 D: 35.0



3012

# HIFI STEREO

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## TR 2045 - 45 watts FM Stereo Receiver

The TR 2045 proves that neither performance nor convenience need to 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%) 2 x 45 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:

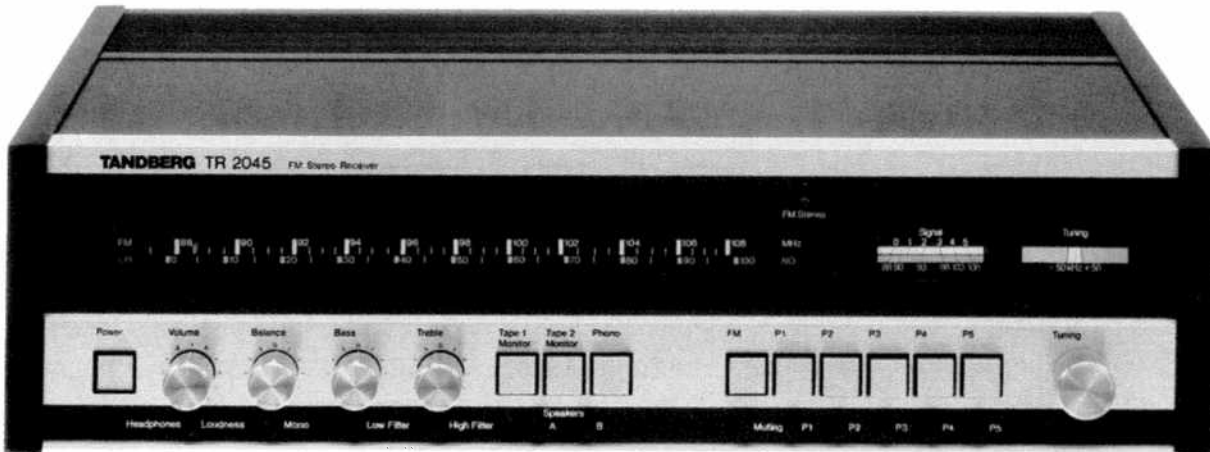
50 dB quieting sensitivity 300 ohm.

Mono/Stereo 3.5  $\mu$ V/16.2 dBf/40  $\mu$ V/37.3 dBf

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

Mono/Stereo 76 dB/74 dB

Dimensions (cm) W: 51.5 H: 14.5 D: 32.0



# 2045

## TR 2080 - 75 watts AM/FM Stereo Receiver

A truly classic design.

Actually 3 separate units in a single cabinet.

Sound quality and performance unattainable by any receiver - rivaled only by separates.

Dimensions (cm) W: 51.5 H: 15.5 D: 35.5

### Specification:

Technical Data according to IHF-A-202, 1978

Continuous Average Power Output:  
(8 ohms, 20-20000 Hz, THD < 0.05%) 2 x 75 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.

Mono/Stereo 1.5  $\mu$ V/14.8 dBf/16  $\mu$ V/35 dBf

Signal/noise ratio by 0.5 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  $\mu$ V



# 2080

### TR 3030 – 30 watts AM/FM Stereo receiver

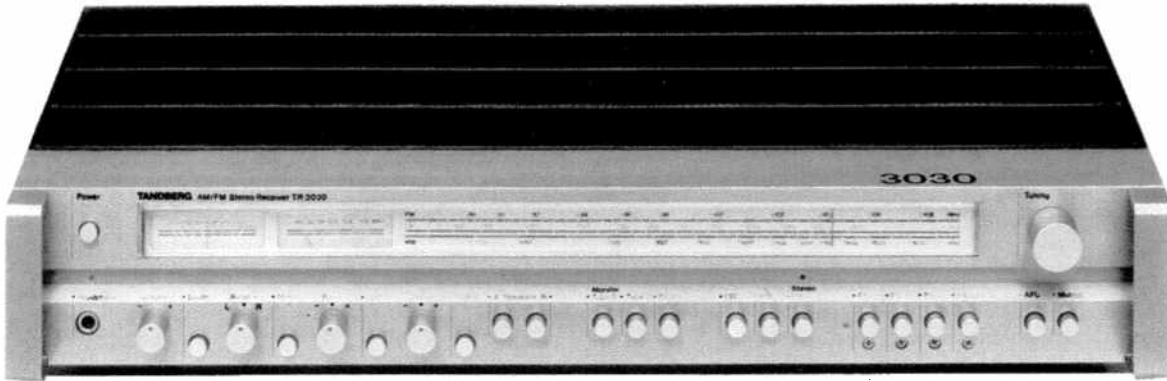
The TR 3030 is an AM/FM stereo receiver offering the ideal balance of cost, power and performance designed to enhance the intimate listening area.

### Specification:

Technical data according to IHF-A-202, 1978	
Continuous Average Power Output: (8 ohms, 20–20000 Hz, THD < 0.2%)	2 x 18 W
IHF Intermodulation Distortion:	< 0.2%
Signal/hum and noise ratio, IHF A-network Max. output 8 ohms load.	
Tape/Phono	80 dB/75 dB

### RF Section:

50 dB quieting sensitivity 75 ohms Mono/Stereo	1.5 $\mu$ V/14.8 dBf/20 $\mu$ V/37.3 dBf
Signal/noise ratio at 65 dBf Mono/Stereo	75 dB/72 dB
Sensitivity at 1 MHz, 30% modulation and 20 dB signal/noise ratio	< 50 $\mu$ V
Dimensions (cm)	W: 52.0 H: 9.5 D: 27.0



# 3030



# 440 A

### TCD 440 A Cassette Deck

A durable, rock solid – time proven design.

Dyneq head room expansion system.

Actilinear recording.

3 DC servo controlled motors.

Auto tape slack take up.

Peak reading dual scale high resolution meters.

All LED function indicators.

Discrete 3 head design.

Logic operated tape transport.

Phase correction circuits.

Infra-red remote control available.

### Specification:

Frequency range ( $\pm$ 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
Dimensions (cm)	W: 47.0 H: 10.5 D: 23.0





# 20 A

**TD 20 A Tape Deck**  
The studio performance series.

Tandberg has a long-standing reputation for the creation of excellent and versatile tape recorders. For years, Tandberg's recording technique has set a performance standard for the industry. In addition to the popular TD 20 A, a new version TD 20 A-SE has been added to the series. This models feature the unique new special tape equalization circuits which improve the S/N ratio up to 80 dB without any noise reduction circuits involved.

TD 20 A-SE also features the DYNEQ head room extension system.

**All variants feature:**

- Actilinear recording
- 4 motor tape transport
- Full logic operation
- Electronic Edit/Cue function
- Remote control facility
- 10 1/2 inch reels
- 19 inch rack kit available

**Specification (all models):**

Frequency range ( $\pm 2$ dB):	20-30000 Hz
THD distortion at 0 dB rec. level:	< 2%
Speed variations (wow)	
WRMS R/P:	< 0.03%
Speed tolerance:	$\pm 0.5\%$
Dimensions (cm) W:	43.5 H: 45.0 D: 19.5

**Signal/tape noise (two-track, high speed models)**

TD 20 A	70 dB
TD 20 A-SE	Max *80 dB

\*Dependent on tape



# 20 A-SE