

TR 3030 – 30 watts AM/FM Stereo receiver

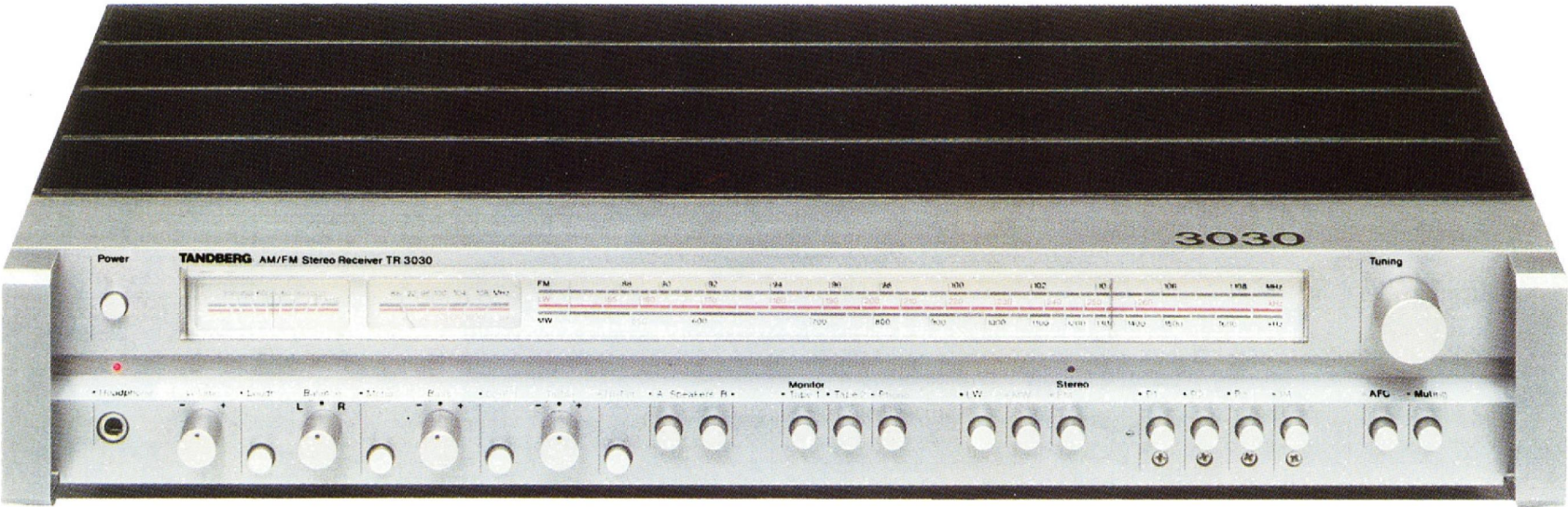
The TR 3030 is an AM/FM stereo receiver offering the ideal balance of cost, power and performance designed to enhance the intimate listening area.

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 µV/14.8 dBf/20 µV/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	< 50µV
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 (± 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) < 0.12%

WRMS R/P: > 76 dB

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 (± 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

World Headquarters and Factory

Tandberg A/S
Fetveien 1, P.O. Box 53
N-2007 KJELLER
Norway

Authorized Tandberg dealer:

Sales Subsidiaries:

Tandberg Audio AB
Boks 20 104
161 20 BROMMA
Sweden

Tandberg Ltd.
Revie Road
Elland Road
LEEDS LS 11 8JG
England

Tandberg Radio Deutschland GmbH
Heinrich Hertz Strasse 24
Postfach 3125
D-4006 ERKRATH 1
West-Germany

Tandberg of America Inc.
Labriola Court
ARMONK
N. Y. 10504
USA

Sole Distributors:

Sole distributors in 30 countries, among others in the following English speaking markets:

Thorvin Electronics Ltd.
720, Burnhamthorpe Rd. West
Mississauga
ONTARIO L5C 2R9
Canada

Rank Industries Australia Pty. Ltd.
12 Barcoo Street
East Roseville N. S. W. 2069
Australia

The Radio People Ltd.
25, Chatham Road
Kowloon
Hong Kong

Eastland Trading Co.
Selegie Road
283 A Selegie Complex
Singapore

TANDBERG
The European.

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 μ V
		10.3 dBf
	stereo	11.0 μ V
		32.1 dBf
With noise filter ANC		
10 dB channel separation		5.0 μ V
		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
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/ μ 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

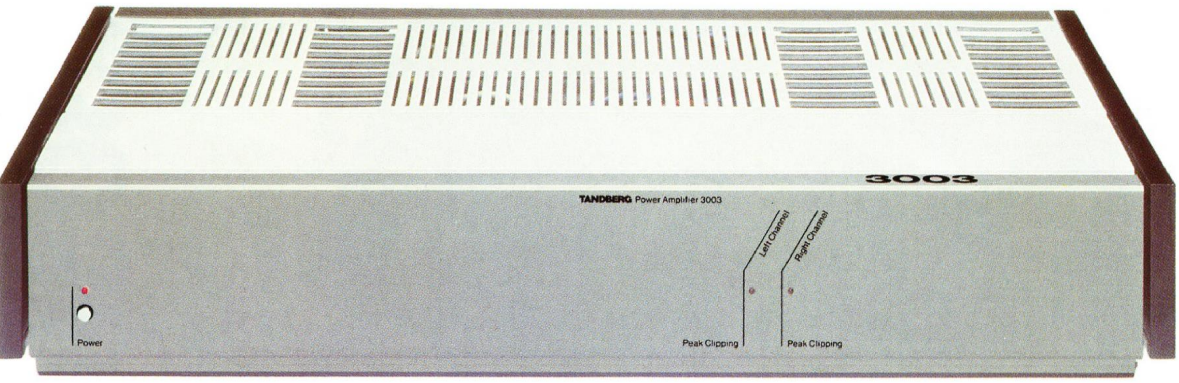
The powerful heart of the 3000 series

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

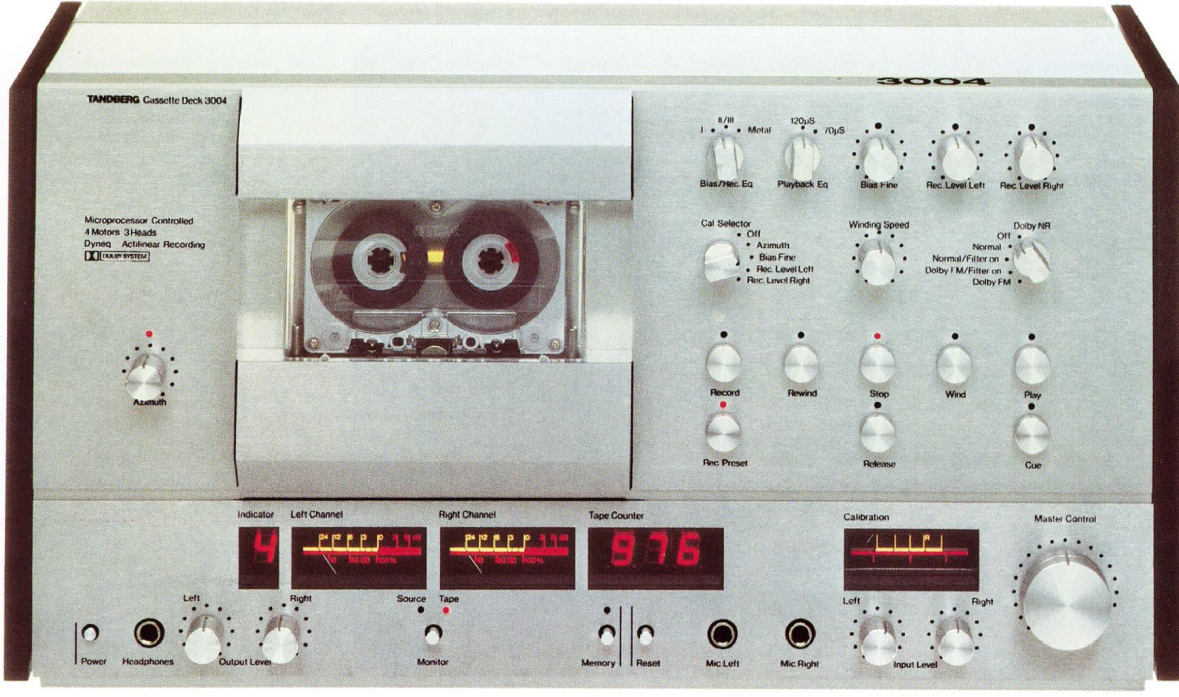
Specification:

Technical Data according to IHF-A-202, 1978	
Continuos 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.

Specification:

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.

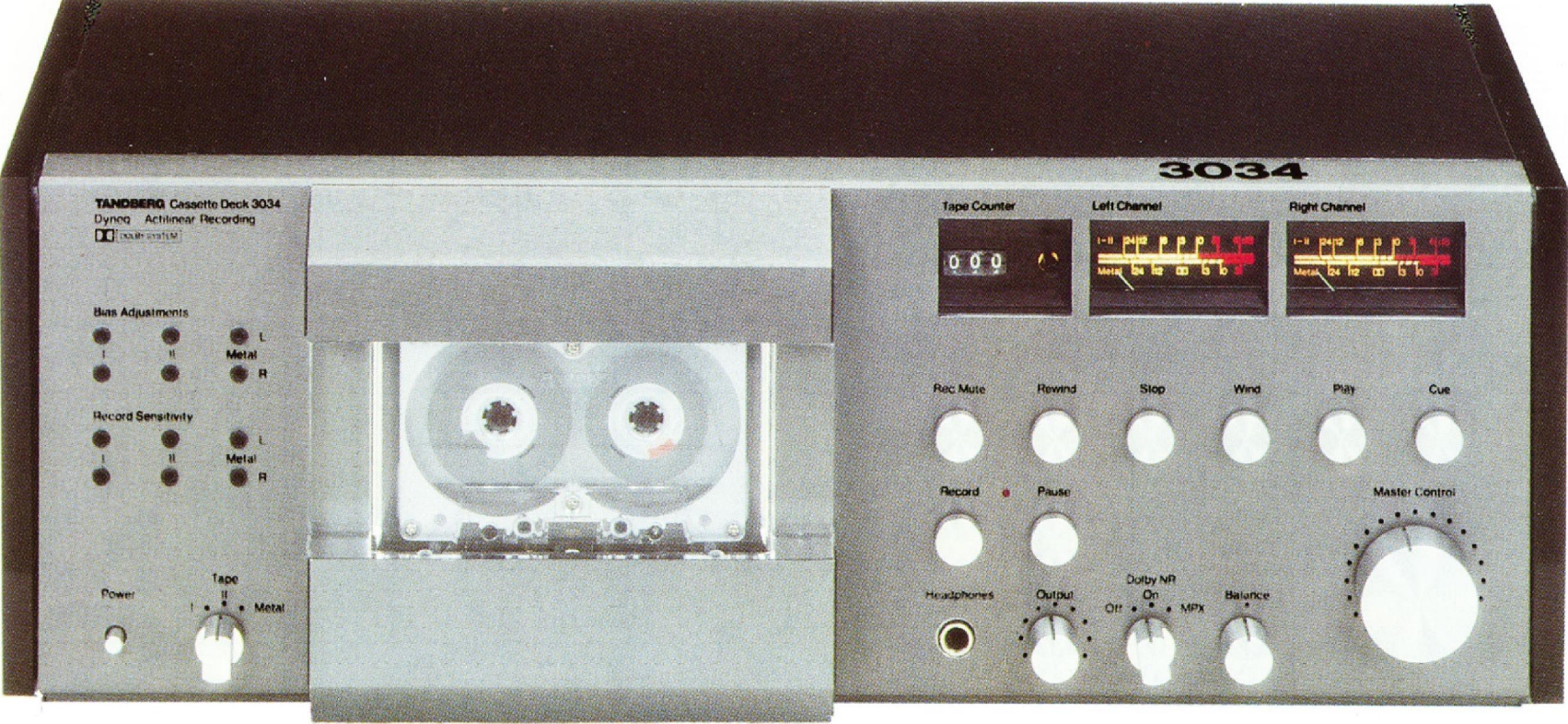
- Dyneq head room expansion system.
- Actilinear recording.

Specification:

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.

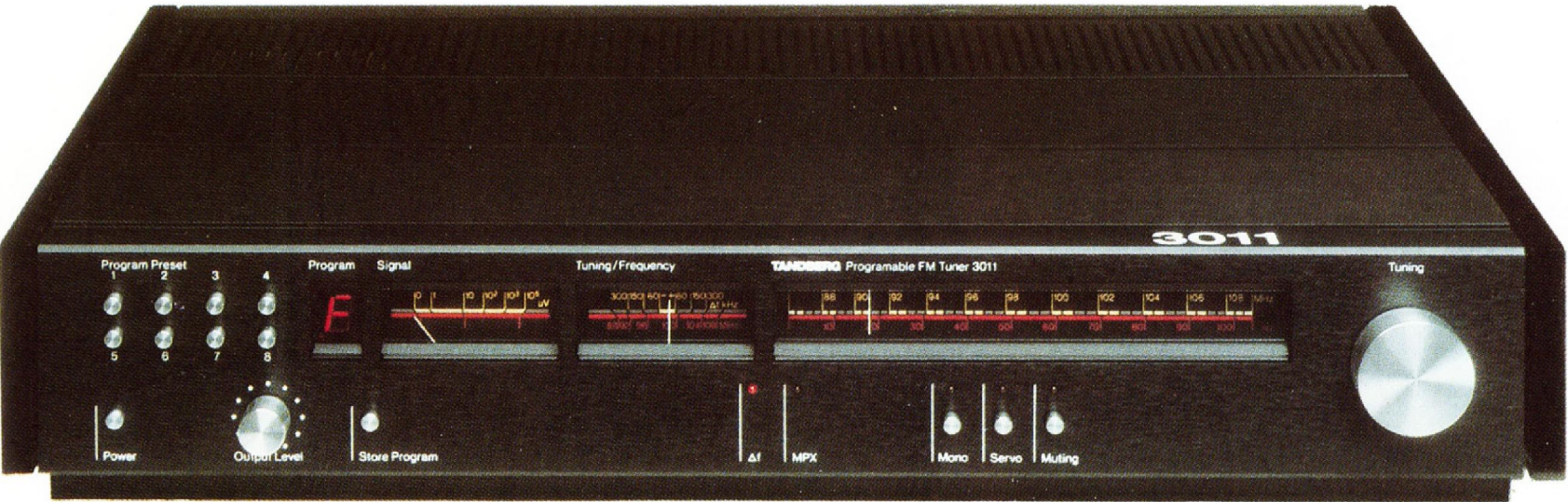
Pre tuning system with 12 bit micro processor memory.

High selectivity.

Specification:

50 dB quieting sensitivity	mono	1.5 μ V
	stereo	14.8 dBf
		20 μ 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/ μ s
Frequency response (-3 dB)	5 Hz-100 kHz
Sensitivity (Ref. 1 W/8 ohms)	
Phono MM	0.19 mV
Phono MC	16.0 μ 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

Other Tandberg quality products:

HI-FI/PROFESSIONAL:

Studio monitor loudspeakers TML 3005
Analog logging tape deck TD 20 A-L
Playback and editing tape deck TD 20 A-P
Data broadcasting FM tuner TPT 3001 B
DC operated mono power amplifier TPA 3013 M
Telephone enhancement system TES

EDUCATIONAL:

Learning laboratory systems, Model IS9 and
System 500
Group trainer TMU 502
Mono open reel tape recorder TB 15
Classroom cassette recorder TCR 522
Cassette recorder for the blind TCR 555
Self study cassette recorder TCR 512
Portable cassette recorders AT 771 and TPR 101