

TANDBERG

TR2030/TR2045

Technical data

It is Tandberg's policy to improve products as new techniques and components become available.
Tandbergs Radiofabrikk A/S therefore reserves the right to change specifications at any time.



* **POWER OUTPUT:** Average continuous sinewave power is 30 watts minimum RMS per channel, both channels driven into 8 ohms load, from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion from 1/4 watt to 30 watts as specified herein.

Power output DIN 45500: 2 x 42 watts

Power output: 2 x 38 watts
continuous, both channels driven into 4 ohms load at 1 kHz, 0.15% distortion.

Power output: 2 x 32 watts
continuous both channels driven into 8 ohms load at 1 kHz, 0.09% distortion.

Load impedance: 4–16 ohms

* **TOTAL HARMONIC DISTORTION:** Maximum 0.09% at any power from 1/4 watt up to rated power in 8 ohms load.

Intermodulation, IHF and DIN 45500: Less than 0.09%

Damping factor at 20–20,000 Hz: 55 at 8 ohms

Frequency response: 8–50,000 Hz
Overall linear input at –1.5 dB

Bass control range: ± 15 dB at 50 Hz

Bass loudness: +9 dB 50 Hz

Treble control range: ± 15 dB at 10,000 Hz

Treble loudness: +3 dB at 10,000 Hz

LOW filter: –3 dB at 70 Hz
(-12 dB/octave)

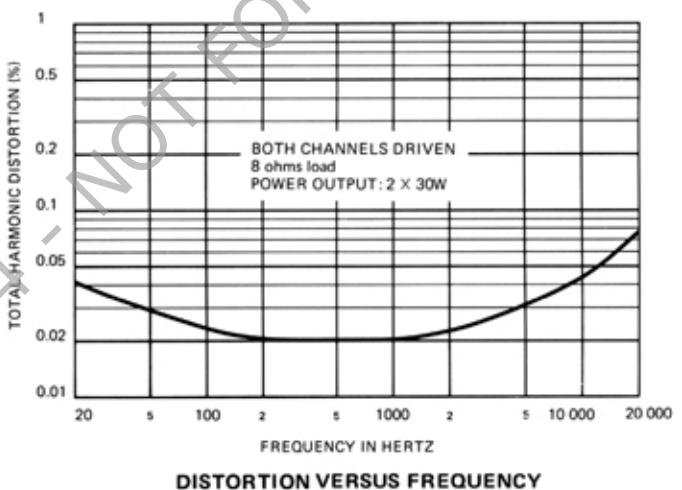
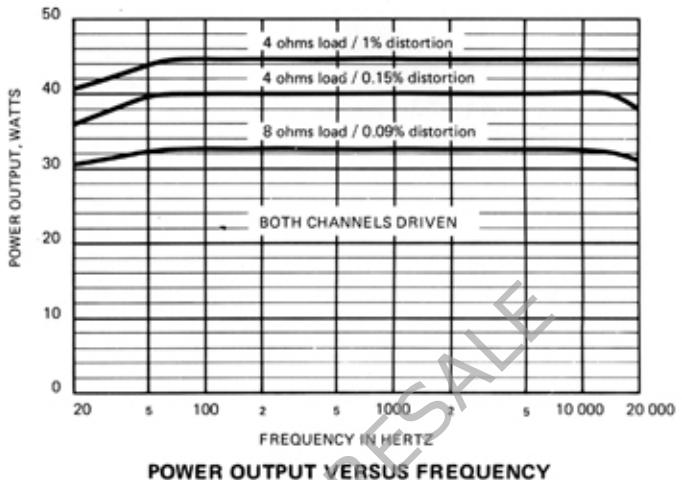
HIGH filter: –3 dB at 8,000 Hz
(-12 dB/octave)

Channel separation: 60 dB
at 1 kHz

Signal/hum and noise ratio, IHF: reference, max. output, into 8 ohms load, shorted input, no filter network used.

Signal/hum and noise ratio, IHF: reference, max. output, into 8 ohms load, shorted input, A-network used.

* Measured according to FTC rules.



Signal/hum and noise ratio, DIN 45500: Tape 1: 61 dB
(input signal 180 mV)
reference 50 mW, 8 ohms

Tape 2: 61 dB
(input signal 180 mV)

Phono: 60 dB
(input signal 2.5 mV)

Phono: 62 dB
(input signal 10 mV)

Sensitivity: Tape 1: 180 mV

(input imp. 15–27 k ohms)

Tape 2: 180 mV

(input imp. 15–27 k ohms)

Phono: 2.5 mV

(input imp. 47 k ohms)

Maximum input signals: Tape 1: 35 V
0.15% distortion at 1 kHz
Tape 2: 35 V
Phono: 90 mV

Output of TAPE socket: 250 mV
unloaded

(output imp. 33 k ohms)

US Models:

500 mV
(output imp. 4 k ohm)

Output from PHONES: Max. 16 V
unloaded

(output imp. 150 ohms)

* **POWER OUTPUT:** Average continuous sinewave power is 45 watts minimum RMS per channel, both channels driven into 8 ohms load, from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion from 1/4 watt to 45 watts as specified herein.

Power output DIN 45500: 2 x 72 watts

Power output: 2 x 65 watts
continuous, both channels driven into 4 ohms load at 1 kHz, 0.15% distortion.

Power output: 2 x 50 watts
continuous, both channels driven into 8 ohms load at 1 kHz, 0.09% distortion.

Load impedance: 4–16 ohms

* **TOTAL HARMONIC DISTORTION:** Maximum 0.09% at any power from 1/4 watt up to rated power in 8 ohms load.

Intermodulation, IHF and DIN 45500: Less than 0.09%

Damping factor at 20–20,000 Hz: 55 at 8 ohms

Frequency response: 8–50,000 Hz
Overall linear input at –1.5 dB

Bass control range: ± 15 dB at 50 Hz

Bass loudness: + 9 dB 50 Hz

Treble control range: ± 15 dB at 10,000 Hz

Treble loudness: + 3 dB at 10,000 Hz

LOW filter: – 3 dB at 70 Hz
– 12 dB/octave

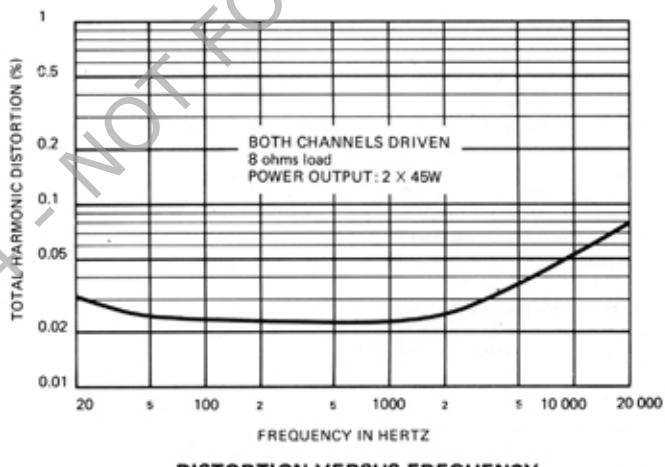
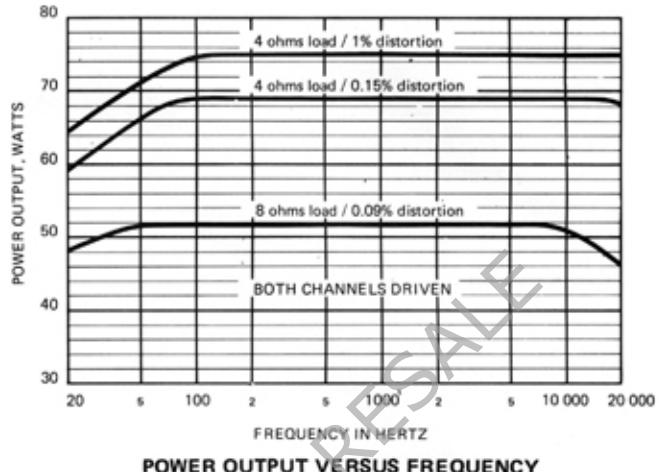
HIGH filter: – 3 dB at 8,000 Hz
– 12 dB/octave

Channel separation:
at 1 kHz

Signal/hum and noise ratio, IHF:
reference, max. output, into 8 ohms load, shorted input, no filter network used.

Signal/hum and noise ratio, IHF:
reference, max. output, into 8 ohms load, shorted input, A-network used.

* Measured according to FTC rules.



Signal/hum and noise ratio, DIN 45500: Tape 1: 61 dB
reference 50 mW, 8 ohms

Tape 2: 61 dB
(input signal 210 mV)

Phono: 60 dB
(input signal 3.0 mV)

Phono: 62 dB
(input signal 10 mV)

Sensitivity:
at maximum power output,
in 8 ohms load

Tape 1: 210 mV
(input imp. 15–27 k ohms)
Tape 2: 210 mV
(input imp. 15–27 k ohms)

Phono: 3.0 mV
(input imp. 47 k ohms)

Maximum input signals:
0.15% distortion at 1 kHz

Tape 1: 35 V
Tape 2: 35 V
Phono: 90 mV

Output of TAPE socket:
unloaded

250 mV
(output imp. 33 k ohms)

US Models:

500 mV
(output imp. 4 k ohms)

Output from PHONES:
unloaded

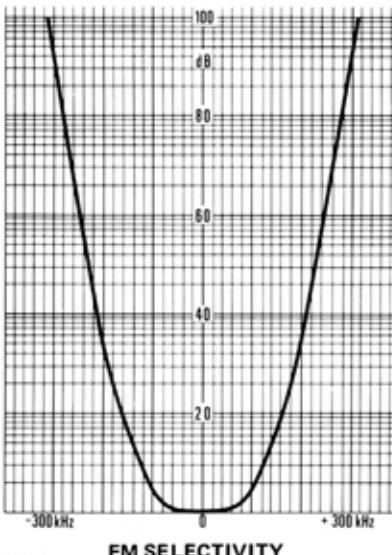
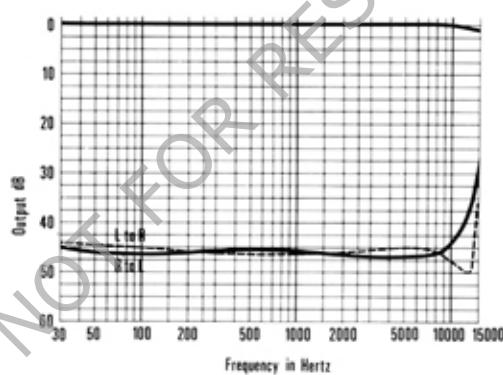
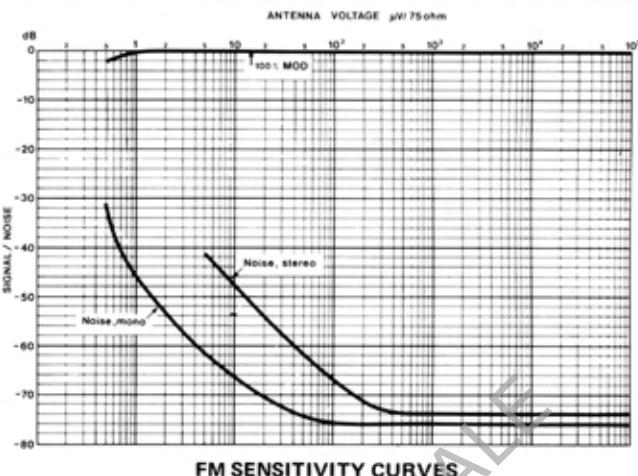
Max 20 V
(output imp. 150 ohms)

**Specifications according to IHF-T-200, 1975
(IEEE std. 185, 1975)**

Tuning range:	87.5–108 MHz
Usable sensitivity:	MONO: 1.9 μ V/300 ohms (10.8 dBf)
50 dB quieting sensitivity:	MONO: 3.5 μ V/300 ohms (16.2 dBf) STEREO: 40 μ V/300 ohms (37.3 dBf)
Signal-to-noise ratio at 65 dBf (1 mV/300 ohms):	MONO: 76 dB STEREO: 74 dB
Muting threshold: Muting hysteresis, 6 dB	MONO: 6 μ V/300 ohms (20.8 dBf)
Stereo threshold: Stereo hysteresis, 8 dB	15 μ V/300 ohms (28.8 dBf)
Frequency response: 30 Hz–15 kHz	MONO: +1, –2 dB STEREO: +1, –2 dB
Distortion at 50 dB quieting:	MONO: 0.6% STEREO: 0.9%
Distortion at 65 dBf (1 mV/300 ohms)	MONO: 0.4% STEREO: 0.5%
Capture ratio:	1.5 dB
Selectively measured.	
Adjacent channel selectivity:	10 dB at \pm 200 kHz
Dynamic	
Alternate channel selectivity:	80 dB at \pm 400 kHz
Dynamic	
Spurious response ratio:	Greater than 100 dB
Image response ratio:	Greater than 100 dB
IF response ratio (balanced):	Greater than 100 dB
AM suppression ratio:	Greater than 70 dB
Stereo separation:	Greater than 40 dB
at 100 Hz–10 kHz (selectively measured).	
Subcarrier product ratio:	60 dB
19 kHz suppression:	62 dB
38 kHz suppression:	62 dB

Specification according to DIN 45301 and DIN 45500

Sensitivity mono, DIN 45301: at 26 dB signal/noise, RMS, dev. \pm 22.5 kHz.	1.6 μ V/300 ohms
Sensitivity stereo, DIN 45500: at 46 dB signal/noise, RMS, dev. \pm 40 kHz.	40 μ V/300 ohms
Signal/noise, Weighted, DIN 45500: quasi-peak, dev. \pm 40 kHz.	MONO: 64 dB STEREO: 62 dB
Signal/noise, Unweighted, DIN 45500: RMS, dev. \pm 40 kHz.	MONO: 65 dB STEREO: 65 dB
Selectivity: carrier down	80 dB at \pm 300 kHz
Total harmonic distortion: dev. \pm 40 kHz.	MONO: 0.2% STEREO: 0.3%



GENERAL		TR 2030	TR 2045
AC Power Requirement:	120/220/240 V, 50/60 Hz	120/220/240 V, 50/60 Hz	
AC Power consumption:	190 W (full power) 45 W (no signal)	270 W (full power) 45 W (no signal)	
Dimensions:	Width: 20 1/8" (51 cm) Height: 5 5/8" (14.5 cm) Depth: 12 5/8" + knobs 13/16" (32 cm + 2.1 cm)	Width: 20 1/8" (51 cm) Height: 5 5/8" (14.5 cm) Depth: 12 5/8" + knobs 13/16" (32 cm + 2.1 cm)	
Weight:	18 lbs (8.3 kg)	21 lbs (9.6 kg)	