



SERIES 6000X STEREO

**^ new top model for the
world market!**

The new tape recorder Series 6000X is designed for the world's most discriminating markets, and is in a class by itself when it comes to quality, precision and sound reproduction.

Tandberg Series 6000X Stereo has a modern design. The operational devices are clearly arranged and in spite of its numerous technicalities the tape recorder is simple and easy to operate.

Series 6000X Stereo is a fully transistorized stereo recorder with 3 speeds: $7\frac{1}{2}$, $3\frac{3}{4}$ and $1\frac{7}{8}$ ips. It is intended for use together with separate Hi-Fi amplifiers and has therefore no built-in power amplifiers.

There are separate heads for recording, playback and erase, plus a bias head. Two moving coil meters indicate recording levels. These instruments also indicate the output level at playback.

The recording is based upon the Tandberg Cross-Field technique, giving sensationally good specifications for frequency range and signal-to-noise ratio. Inputs for dynamic microphone, line, radio, magnetic and ceramic pick-up. Limiter prevents excessive input signal levels during recording. Listening during fast wind and rewind if desired, makes it

easy to locate a programme on the tape.

Professional tape recorder users will appraise the merits of Series 6000X Stereo. Mixing possibilities in stereo with separate input controls (2 for each channel), microphone with pick-up, line or radio. 4 input controls for mixing in mono. AB-test, — that is you can listen to a programme during recording (monitoring). And you can also listen to the playback during recording. Possibilities for «Sound-on-Sound»-copying of a programme from one track to the other, and mixing in a new programme synchronously with the first one. Possibilities for echo and other trick recordings.

Tandberg 6000X Stereo has one-lever control of tape drive, push-buttons for electrical functions and track selection, illuminated 4-digit revolution counter, automatic end-stop, pause-button and possibilities for remote control of start and stop.

Tandberg Series 6000X Stereo is available in 2- or 4-track versions, in teak or rosewood cabinets.

TANDBERG

TECHNICAL SPECIFICATIONS

Power requirements: 240/230/115 V, 50 Hz. 240/230/115 V, 60 Hz.

Power consumption: 45 W.

Tape: Maximum reel size 7". Low Noise tape should be used for recording.

Tape speeds: 7 1/2, 3 3/4 and 1 7/8 ips.

Speed tolerance: Absolute tolerance $\pm 1\%$.

Playing time with 1,200 ft. tape:

	Stereo	Mono
7 1/2 ips	2 x 32 min	4 x 32 min
3 3/4 ips	2 x 64 min	4 x 64 min
1 7/8 ips	2 x 128 min	4 x 128 min

Playing time with 1,800 ft. tape:

	Stereo	Mono
7 1/2 ips	2 x 48 min	4 x 48 min
3 3/4 ips	2 x 96 min	4 x 96 min
1 7/8 ips	2 x 192 min	4 x 192 min

Fast wind and rewind: For 1,200 ft. of tape approx. 1 3/4 min — for 1,800 ft. of tape approx. 2 1/2 min, without tape wear.

Remote control of start-stop with Tandberg foot pedal TFC-2.

Heads: 1 erase head, 1 record head, 1 playback head, 1 separate Cross-Field bias head.

Erase and bias: 85.5 kHz, distortion less than 0.5%.

Inputs: Each channel has the following inputs:

1. Microphone input (MIC) adapted for dynamic microphone with impedance 200–700 ohm. Sensitivity 70 μ V. Max. input level 70 mV.
2. Radio input (RADIO). Impedance 100 kohm. Sensitivity 5 mV. Max. input level 15 V.
3. Line output (LINE). Impedance 100 kohm. Sensitivity 5 mV. Max. input level 15 V.
4. Pick-up input (PICKUP). With pick-up selector in position M: Impedance 33 kohm. Sensitivity 1 mV. Max. input level 3 V. With pick-up selector in position C: Impedance adapted for ceramic pick-up. Sensitivity 10 mV. Max. input level 30 V.

Limiters: Attack time below 5 ms. Release time approx. 1 s.

Outputs: Radio output (RADIO). Impedance 11 kohm. Output voltage 0.75 V, unloaded. Line output (LINE): Impedance 10 kohm. Output voltage 160 mV, unloaded. OUTPUTS LEFT and RIGHT: Min. load impedance 200 ohm. Output voltage 1.5 V. Center channel output (CENT): Min. load impedance 200 ohm. Output voltage 1.5 V. Headphone output (HEADPHONES): Min. load impedance 200 ohm for each channel. Output voltage 1.5 V.

Distortion: From record amplifier at 0 dB recording level: 0.5%.

From playback amplifier at 1.5 V output voltage: 0.3%.

From tape at 0 dB recording level: 3%.

Frequency response:

7 1/2 ips: 40–20,000 Hz ± 2 dB.

3 3/4 ips: 50–16,000 Hz ± 2 dB.

1 7/8 ips: 50–9,000 Hz ± 2 dB.

Measured according to DIN 45511:

7 1/2 ips: 40–22,000 Hz

3 3/4 ips: 40–18,000 Hz

1 7/8 ips: 40–10,000 Hz

Wow: Measured in % according to DIN 45511:

7 1/2 ips: better than 0.1%.

3 3/4 ips: better than 0.2%.

1 7/8 ips: better than 0.4%.

Signal/hum: (Unweighted) Peak value measured in % according to DIN 45511 at tape speed 7 1/2 ips and 5% tape distortion:

4-track	2-track
54 dB	54 dB

Signal-to-Noise ratio: Peak value according to DIN 45511 at tape speed 7 1/2 ips and 5% tape distortion:

4-track	2-track
56 dB	58 dB

Signal/tape noise: Measured unweighted R.M.S.:

4-track	2-track
58 dB	58 dB

Measured according to A-curve R.M.S.:

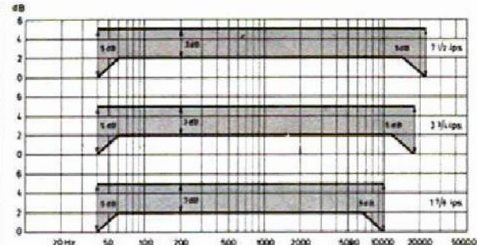
4-track	2-track
64 dB	66 dB

Cross-talk: Cross-talk at 1,000 Hz according to DIN 45511:

Mono: > 60 dB. Stereo: > 50 dB.

Dimensions: Length 15 1/2", height 6 1/2", depth 12 3/8".

Weight: 21 lbs.



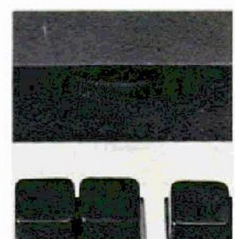
The shaded areas represent the tolerance ranges for frequency response measured according to DIN 45511.



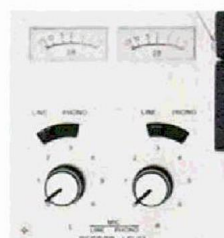
Series 6000X Stereo can be operated in vertical position.



A socket for stereo headphone is handily placed on the top plate.



A lever allows listening during fast wind and rewind ("cueing").



Series 6000X Stereo has separate recording controls for line/pick-up input and microphone input for each channel.



Separate playback controls for both channels. "Sound-on-Sound" switch with 3 positions.



DIN and Phono sockets for connection of radio and record player. There are also a pick-up switch for selection of magnetic or ceramic pick-up, centre channel output, line inputs and line outputs, output for operating voltage for Tandberg FM multiplex filter and socket for remote control of tape recorder.