

# 3031

## TUNER

The new digital tuner TPT 3031A is the result of long term development in the Tandberg labs.

This new digital tuner offers a high degree of stability in combination

with an easy-to-read, and accurate LED display.



## The front end

The front end employs ganged, tuned circuits where DC voltage controlled capacitance diodes are used as tuning elements, and Dual-Gate MOSFETs

are used in the RF stages. This achieves stable, accurate tuning and good sensitivity combined with superior headroom.

The TPT 3031A utilizes 4 tuned circuits to prevent Mirror Image (21.4 MHz) and other out of band distortion.

## Programming unit

In addition to the main tuning, there is a second stage which stores 16 pre-tuned FM stations

in an electronic memory. This pre-tuning system is based on microprocessor

technology to achieve maximum S/N ratio and frequency stability.

## Easy operation

The TPT 3031A offers both manual and automatic tuning. Advanced microprocessor technology limits the number of buttons to

a minimum, and all functions are easy to control with a logical lay-out.

The display incorporates LED's indicating signal-strength, center-tuning and stereo-reception.

## The audio circuit

To make a good tuner takes a special knowledge of radio frequency technology, but in many cases the audio section is neglected in terms of component quality and design criteria.

The TPT 3031A Tuner shares the design-philosophy of the other well recognized high-end products in the Tandberg

3000-series. Design high-lights are carefully selected components.

## Full remote operation

The TPT 3031A Tuner is built for full remote operation, like several other new Tandberg products. The optional RC-3000 Remote Control

operates all these different units from one single transmitter. The remote control offers direct access to all presets.

To secure the set against unattended re-programming, all presets must be set/programmed on the tuner itself.

## Technical Data

### Tandberg Programmable Tuner TPT 3031A

|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| Power requirements: | 110 — 115 V/220 — 230 V/240 V $\pm$ 10 %, 50/60 Hz                                                             |
| Power consumption:  | 20 W                                                                                                           |
| Dimensions:         | Width: 17 1/8" (43.5 cm)<br>Depth: 13 3/4" (35.0 cm)<br>Height: 3 1/4" ( 8.3 cm)<br>Weight: 10.7 lbs (4.85 kg) |

### Technical Data according to IHF-T-200, 1975 IEEE Std. 185, 1975

|                                                               |                                                     |
|---------------------------------------------------------------|-----------------------------------------------------|
| Tuning range:                                                 | 87.5 — 108 MHz                                      |
| Usable sensitivity:                                           | Mono 1.1 $\mu$ V/75 ohm                             |
| 50 dB quieting sensitivity:                                   | Mono 2 $\mu$ V/75 ohm<br>Stereo 20.0 $\mu$ V/75 ohm |
| Signal-to-noise ratio:                                        | Mono 82 dB<br>Stereo 78 dB                          |
| Muting threshold:                                             | 15 $\mu$ V/75 ohm                                   |
| Muting hysteresis:                                            | 15 dB                                               |
| Stereo threshold:                                             | 1 $\mu$ V/75 ohm                                    |
| Frequency response:                                           | Mono +0.5 dB — 1 dB<br>Stereo +0.5 dB — 1 dB        |
| Distortion at 50 dB quieting:                                 | Mono 0.2 %<br>Stereo 0.3 %                          |
| Distortion at 65 dBf<br>(0.5 mV/75 ohm at 1 kHz):             | Mono 0.15 %<br>Stereo 0.15 %                        |
| Distortion at 65 dBf                                          | Stereo 0.4 %                                        |
| Intermodulation distortion:                                   | Mono 0.2 %<br>Stereo 0.2 %                          |
| Capture ratio, selectively measured:                          | 1.0 dB                                              |
| Adjacent channel selectivity $\pm$ 200 kHz:                   | 14 dB                                               |
| Alternate channel selectivity $\pm$ 400 kHz:                  | > 100 dB                                            |
| Spurious response ratio:                                      | > 90 dB                                             |
| Image response ratio, balanced:                               | > 100 dB                                            |
| RF intermodulation:                                           | > 70 dB                                             |
| AM suppression ratio:                                         | > 70 dB                                             |
| Stereo separation (60 Hz to 10 kHz,<br>selectively measured): | > 45 dB                                             |
| Subcarrier product ratio:                                     | 70 dB                                               |
| 19 kHz suppression:                                           | 70 dB                                               |
| 38 kHz suppression:                                           | 100 dB                                              |
| Center LED on:                                                | 20 dBf                                              |
| Signal LED on:                                                | 30 dBf                                              |

Specifications are subject to change without notice.

YOUR AUTHORIZED TANDBERG REPRESENTATIVE:

HEADQUARTER:

Tandberg Audio  
Products A.s  
Østensjøvn. 44  
N-0667 Oslo 6  
Norway

Telephone  
(472) 65 09 05

**TANDBERG**