

STUDIO STANDARD SERIES

# TR2

## SOLID STATE AM/FM STEREO TUNER

A New Slim, Precision-Look Tuner Featuring A Totally Electronic Indicator of Signal Strength and Center Tuning Point !!



ULTIMATE FIDELITY STEREO COMPONENTS

## Design Features:

To match the unprecedented, slim and compact front panel, a totally electronic display is employed using LED's for indication of both signal strength and center tuning point, which is not only eye-catching but ensures easy visual tuning.

The signal strength is displayed by LED's, which are effective for both FM and AM. 2 additional LED's make it possible to tune in the exact center frequency of the desired FM station.

## FM Sonic Excellence:

For good sonic playback quality, special consideration is given to the total circuitry.

The front end of special make employs a distortion-free local oscillator and an RF amp stage composed of the combination of a MOS FET and a quality variable capacitor, which makes it possible to realize superb interference and intermodulation rejection characteristics. Also, clear reproduction is possible even in the presence of signals having high electric field strength.

The IF stage is so designed as to be inherently low in distortion, but to make it perfect, a new quadrature IC and a special detector transformer combined in the FM detector stage to further reduce distortion and provide high S/N ratio and a wider bandwidth.

In the multiplex stage, in addition to the selected low-noise PLL IC's offering good separation, 3-pole low pass filters are placed independently in the right and left channels to improve separation characteristics, especially in the treble range. IC's of operational amp are used in the audio stage to lower the output impedance, which also achieves low pop-up noise in combination with a transistor muting circuit.

## Special Consideration for Europe:

So called "birdie" interference noises which are triggered by FM stations adjacent to the desired one cannot be completely eliminated.

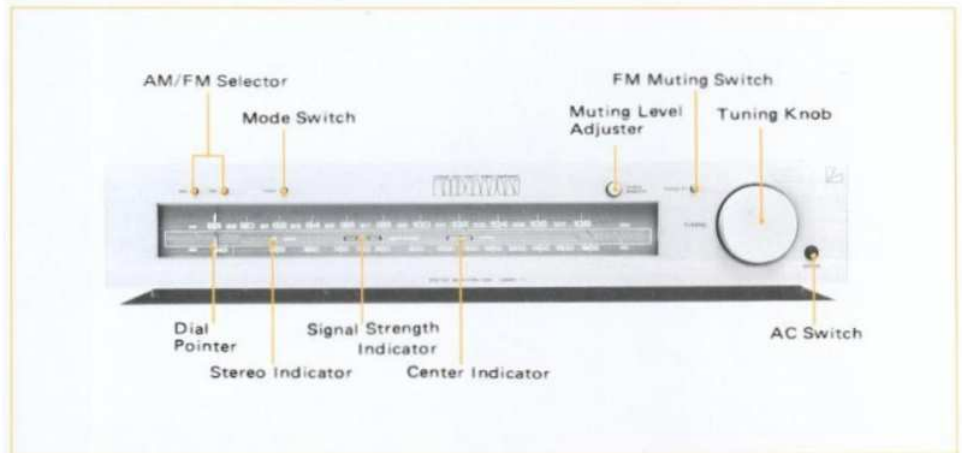
To take care of such congestion of FM stations in central Europe and to remove such annoying noises, this unit is provided with a special 3-pole anti-birdie filter to yield sharp attenuation of ultra treble range exceeding 100kHz. Also a 75-ohm coaxial cable connector of DIN standard is added.

## AM Reception:

The most up-to-date techniques are employed for pleasant AM reception as well. A newly developed IC makes it possible to obtain strong AGC while improving distortion and S/N ratio. Other features are a ceramic filter of good selectivity, a loop stick rotating antenna for optimum direction, etc.

## LW Section (T-2L):

Unlike conventional LW tuner, an independent circuit is featured up to the convertor stage, which improves such characteristics as sensitivity, image ratio, input overload capability, etc. Also, to remove thump noises at the time of selection between MW and LW, an exclusive muting circuit is provided.



## SPECIFICATIONS

### < FM Section >

Receiving Frequency:	87.5MHz - 108MHz	
50dB Quieting Sensitivity:	75 $\mu$ sec, 14.8dBf (3.0 $\mu$ V), 50 $\mu$ sec, 15.5dBf (3.3 $\mu$ V)	
IHF Usable Sensitivity:	10.8dBf (1.9 $\mu$ V)	
Signal to Noise Ratio:	75dB	
Frequency Response:	30 - 15kHz (within $\pm$ 1dB)	
Total Harmonic Distortion	(mono)	(stereo)
100Hz:	0.15%	0.3%
1kHz:	0.15%	0.3%
6kHz:	0.3%	0.5%
Capture Ratio:	1.5dB	
Adjacent Channel Selectivity:	10dB ( $\pm$ 200kHz)	
Alternate Channel Selectivity:	75dB ( $\pm$ 400kHz)	
Spurious Response Ratio:	80dB	
IF Response Ratio:	80dB	
Image Response Ratio:	55dB	
AM Suppression Ratio:	55dB	
Stereo Separation:	44dB (100Hz), 48dB (1kHz) 38dB (10kHz), 38dB (1kHz, European type with optional birdie filter)	
Subcarrier Product Ratio:	65dB	
SCA Rejection Ratio:	60dB	
Output Voltage:	1V	
Output Impedance:	100 ohms	
Muting Threshold:	10 $\mu$ V - 300 $\mu$ V	

< AM Section >	(MW)	(LW for the T-2L)
IHF Usable Sensitivity:	250 $\mu$ V/m	500 $\mu$ V/m
Image Ratio:	50dB (45dB for the T-2L)	32dB
IF Rejection Ratio at 1MHz:	40dB	24dB
Signal to Noise Ratio:	50dB	50dB
Total Harmonic Distortion:	0.6%	0.6%
Output Voltage 30% mod.:	0.3V	0.3V
Power Requirement:	10W	

Additional Features:	Center Indicator, Signal Strength Indicator, FM Muting Switch, FM Muting Level Control	
Dimensions:	438(W) x 331(D) x 84(H)mm (17-1/4" x 13-1/32" x 3-5/16") (including legs, rear protrusions and knobs.)	
Weight:	Net: 5.8kgs (12.8 lbs.)	Gross: 7.3kgs (16.1 lbs.)

Specifications and appearance design subject to change without notice.

## LUX CORPORATION, JAPAN

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