

ULTIMATE HIGH FIDELITY STEREO COMPONENT



MODEL T-110

110

FM/FM-MPX TUNER

New compact tuner for FM only reception.

An epoch-making new approach to styling departs from the conventional concept of tuners which have normally treated product dimensions to equal those of the matching amplifier.



FEATURE OF OUTER APPEARANCE

- 1) Ultra slim presentation - 483(W) mm (19") x 243(D) mm (9-9/16") x 92(H) mm (3-5/8") (114mm (4-1/2") incl. feet)
 - 2) Wide tuning plate - 443(W) mm (17-7/16") x 44(H) mm (1-3/4") composed by 10mm (7/16") thick acrylic.
 - 3) Unlike conventional tuners, the entire dial plate is designed as a unity with tuning and signal strength meter - in other words the dial scale is placed in the meters.
- The dial scale and letters are of etched aluminum foil.
- An additional feature is in the special tuning pointer which blinks at interstation settings and lights up when stations are tuned.

FEATURES OF CIRCUITRY

- 1) Included in the front end is a 5 gang variable capacitor, a low distortion oscillator and MOS FET's in the RF amp and mixer stages, which ensures an amazing characteristic exceeding 100dB in all kinds of rejection ratio such as image, spurious response and IF.
 - 2) To obtain good selectivity and low distortion at the same time, the IF stage employs 2 sets of 4-complement linear phase LC block filter and a ceramic filter.
- The combination of LC block filter and a ceramic filter compensates mutual delay time and helps lower distortion and increases selectivity. Specifically, the distortion figure is below 0.08% (both stereo and monaural) - unprecedented in tuners in this price bracket.
- Also, selectivity is excellent in the event that both the desired signals and interfering one are stereo.
- Other IF stages are composed of IC's of large scale integration.
- 3) The MPX circuit uses PLL IC's.
- A special PLL IC is provided which yields low distortion equivalent to that of discrete circuit adopted in the T300.
- 4) An IC for pre amp is used in the last stage of the audio amp to achieve the lowest possible distortion.
 - 5) Additional features are high output multi-path detector circuit, 4-CH output terminal and attenuator circuit for RF input.

In addition, to remove the unpleasant "thump" noise at the time of on/off operation of power switch, time delay is provided until the circuit is put into operation.

For this purpose a reed relay is used which is also effective in removing pop-up noise during muting operation.

We know the true measurements of minimum performance standards of a quality tuner must be of a very high level.

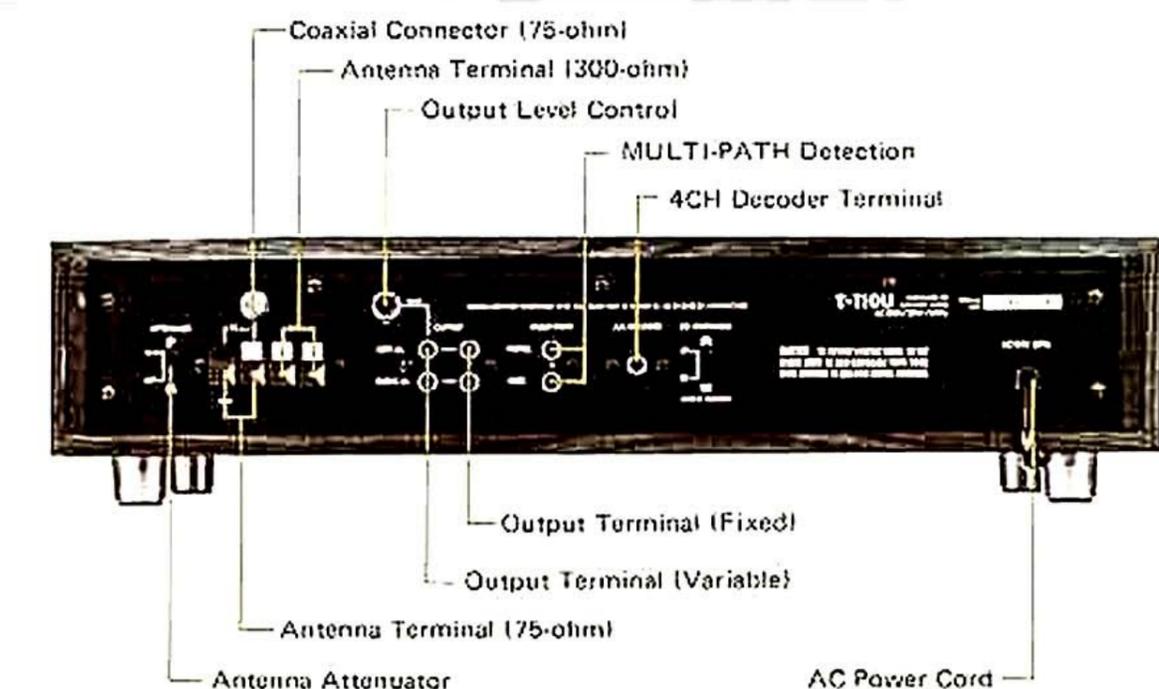
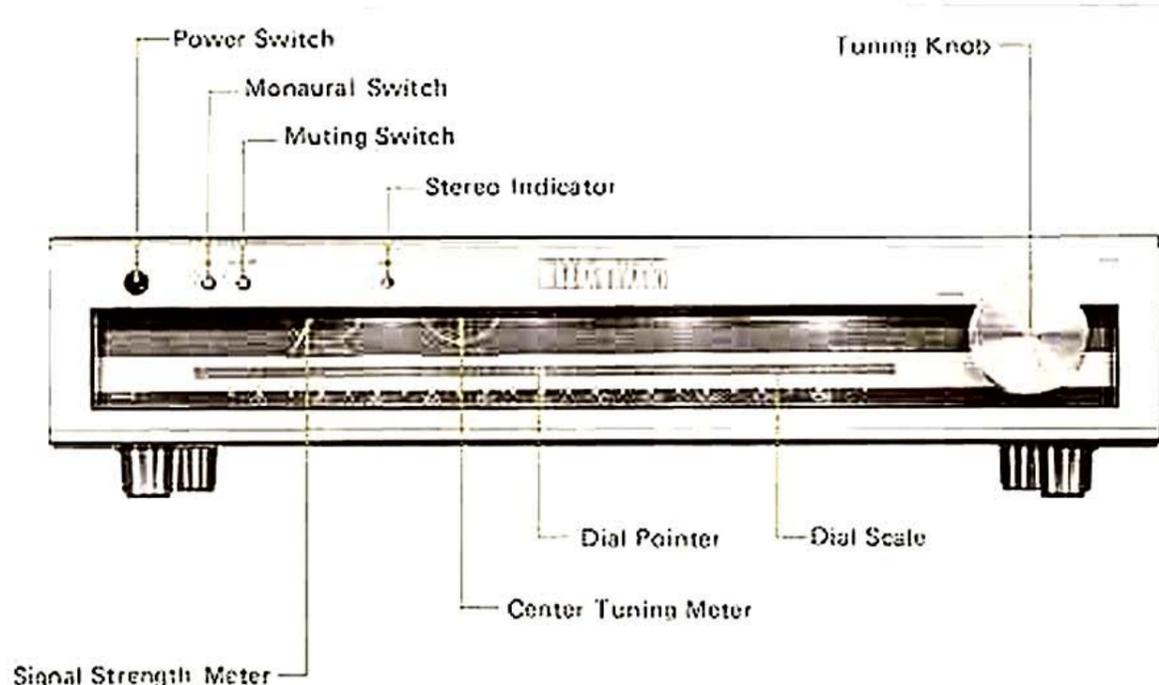
However, these figures are not the only requirements.

Despite every effort to make tuner design a pure science one tuner among many with similar absolute specifications can still have, relatively, far better sound quality.

The reason: there are more comprehensive theories of tuner design which account for such problems as harmonic and intermodulation distortion; stability, filters, and de-emphasis as they relate to statements of performance.

Whatever the scientific theory, LUX conducts the most detailed listening test with engineers and musicians in different fields to ensure that LUX tuners sound best apart from what is considered good in brochures.

To LUX, sound is not only a science but an art. Listen to the ultimate difference at your nearest audio shop.



SPECIFICATIONS

| | | | | |
|---------------------------------------|---|----------------------|--------|-----------------------|
| Frequency Range: | 88 ~ 108MHz | | | |
| IHF Usable Sensitivity: | 1.6µV (9.3dBf)/98MHz | | | |
| 50dB Quieting Sensitivity: | mono | 2.2µV (12dBf)/75µsec | stereo | 34µV (35.8dBf)/75µsec |
| | | 2.8µV (14dBf)/50µsec | | 36µV (36.3dBf)/50µsec |
| Selectivity: | 70dB/±400kHz, 100µV, mono | | | |
| AM Suppression: | 53dB/1mV | | | |
| Capture Ratio: | 1.3dB/1mV | | | |
| Image Ratio: | 100dB/98MHz | | | |
| IF Rejection Ratio: | 100dB/98MHz | | | |
| Spurious Response: | 100dB/98MHz | | | |
| Frequency Response (20Hz ~ 15,000Hz): | +0.2 dB/stereo, mono -1.5 dB/stereo, mono | | | |
| Total Harmonic Distortion: | stereo | 1,000Hz | 0.08% | mono |
| | | 20Hz ~ 5,000Hz | 0.15% | 20Hz ~ 10,000Hz |
| | | 10kHz | 0.3% | 0.1% |
| Stereo Separation: | 1,000Hz - 48dB; 20Hz - 10,000Hz - 38dB; | | | |
| Carrier Leak: | 74dB | | | |
| SCA Rejection: | 70dB | | | |
| Stereo Threshold: | 5µV | | | |
| Muting Threshold: | 5µV | | | |
| Output Voltage: | 1.5V | | | |
| Ultimate S/N: | mono 78dB; stereo 72dB | | | |
| Dimensions: | 483(W) x 243(D) x 114(H)mm (19" x 9-9/16" x 4-1/2") | | | |
| Weight: | Net. 7.6kgs (17 lbs.) Gros 9.6kgs (21 lbs.) | | | |

Specifications and appearance design subject to possible change without notice.

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