

LUXMAN

STATUS SERIES T-530

AM/FM Frequency Synthesized CAT Stereo Tuner

*Outperforms top-quality analog tuner in both spheres of
sonic quality and receiving performance.*

Exclusive CAT(Computer Analyzed Tuning) system provides optimum reception.

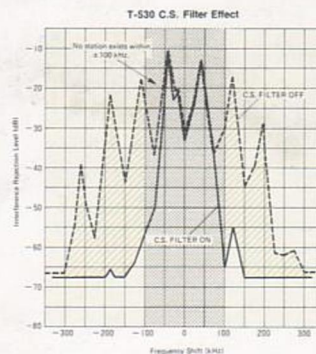
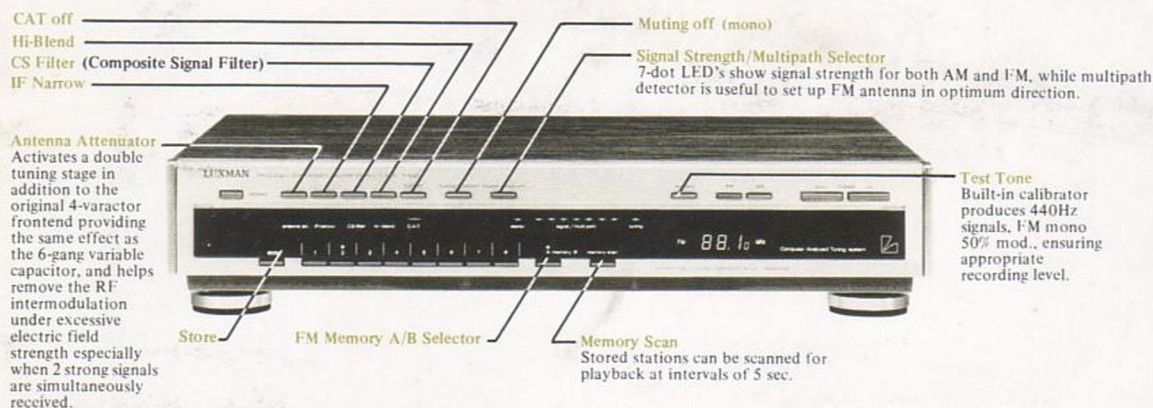
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Archiv Michael-Otto*



LUX CORPORATION, JAPAN

An unprecedented combination of driftless tuning accuracy realized by synthesizer system with superb sonic quality of analog system.

T-530

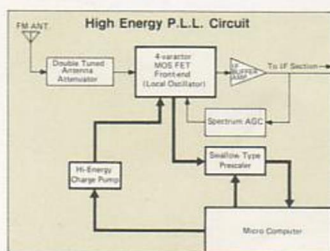


From the stand-point to produce a good-sounding tuner, it is nonsense even for a synthesizer tuner to offer unconditionally stable and accurate tuning if it cannot provide such level of sonic quality and receiving capability hitherto achieved only by an analog tuner. Finally the T-530 made both features compatible. The world-first, good-sounding synthesizer tuner.

High Energy PLL Circuit

Unconditionally reliable tuning accuracy of synthesizer tuner depends on the PLL (Phase Locked Loop) circuitry. The PLL circuit detects the error between the phase of standard signals by quartz oscillator and that of local oscillator, thereby controlling the local oscillator to obtain perfect tuning. By and large, the final quality of playback sound depends on the accuracy and speed in correction process of this error. But, so far the S/N ratio, distortion and overall sonic quality have been deteriorated by the minute ripples caused by insufficient correction due to the limit of response capability.

On the contrary, with our high energy PLL circuit, the response speed is made 3-time quicker by means of high-power, larger loop gain, and also good allowance is given to the tuning voltage of varactor diode to cope with the high-speed PLL circuit.



In this way, we have succeeded in dramatic improvement of such error correction process. Moreover, thanks to the high speed operation, the phase detector frequency hitherto fixed at 12.5kHz is shifted up to the inaudible 25kHz, thus totally removing adverse effect on audio signals.

Optimum Reception

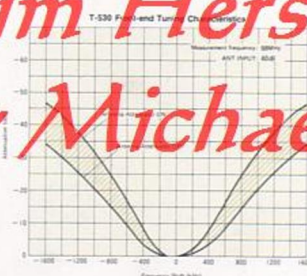
Receiving conditions change incessantly due to interferences by adjacent stations or other

undesired signal waves. To cope with such variations of ambient conditions, the T-530 is perfectly controlled by a computer and provides an optimum receiving condition. Specifically, the CS Filter (Anti-Birdie), IF Selector, Antenna Attenuator and High-Blend circuits are automatically activated by our exclusive CAT system, in combination or independently, depending on necessity, by sensing the electric field strength, interferences by other signals, etc.

Features

Front-end

High sensitivity and good anti-interference characteristics are made compatible, employing twin-varactor diode at tuning circuit and dual MOS FET at RF stage.



Highly immune from interferences thanks to the spectrum AGC that can adjust RF gain to reduce the interference energy to the minimal amount.

IF Stage

3 kinds of ceramic filters having excellent group-delay characteristics are combined with differential amp offering great limiter effect. Thanks to the IF offset function, the receiving signal is locked at the center of the bandwidth, thus enabling to tune into the overall least-distortion point.

Detector Stage

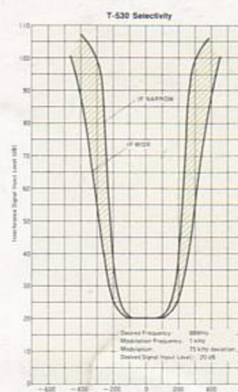
Super wide-range FM detector providing total linear response throughout ultra wide bandwidth exceeding 5,000kHz, i.e., 30 times of the 150kHz bandwidth-FM 100% mod.

Additional Features

CS Filter: At FM stereo, so-called "Birdie" beat noises caused by adjacent stations can be effectively eliminated.

24-Station Preset Memory: The computerized LSI circuit incorporates up to 24-station preset capability. This 16 FM and 8 AM station memory bank provides your favorite FM or AM station at a touch.

Last Channel Memory: It stores in memory the station tuned in just before the power is turned off. When switched on, the same station can be received.



Specifications

<FM Section>		
Usable Sensitivity (at Front-end Input) :	75Ω/300Ω	0.9μV/1.8μV (10.3dBf)
50dB Quieting Sensitivity :	mono 75Ω/300Ω	1.8μV/3.6μV (16.3dBf)
	stereo 75Ω/300Ω	17.5μV/35μV (36.1dBf)
Signal to Noise Ratio at 65dBf :	mono 81dB	
	stereo 77dB	
Frequency Response :	20 - 15,000Hz (within ±0.5dB)	
Distortion at 65dBf (wide) :	mono 100Hz 0.03%	
	mono 1kHz 0.05%	
	mono 6kHz 0.06%	
	stereo 100Hz 0.05%	
	stereo 1kHz 0.06%	
	stereo 6kHz 0.08%	
Image Response Ratio :	80dB	
Alternate Channel Selectivity ±400kHz :	75kHz dev. narrow/wide	more than 100dB/66dB
	40kHz dev. narrow/wide	more than 100dB/72dB
Alternate Channel Selectivity ±300kHz :	75kHz dev. narrow	more than 76dB
	40kHz dev. narrow	more than 80dB
IF Response Ratio :	more than 100dB	
Spurious Response Ratio:	more than 100dB	
AM Suppression Ratio :	65dB	
Capture Ratio (wide) :	1.3dB	
Stereo Separation (wide) :	1kHz 55dB	
	50 - 10kHz 45dB	
SCA Rejection Ratio :	60dB	
Muting Threshold :	5μV	
Output Level :	1V	
<AM Section>		
Usable Sensitivity :	EXT ANT/LOOP ANT	15μV/m / 550μV/m
Signal to Noise Ratio :	50dB	
Image Response Ratio :	40dB	
Distortion :	0.3%	
Output Level :	300mV	
<General>		
Power Consumption :	15W	
Dimensions :	with wooden cabinet 453(W)×344(D)×87(H)mm	
	with metal bonnet (T-530Z) 438(W)×344(D)×87(H)mm	
Weight :	Net 4.8kgs Gross 6.5kgs	
* Specifications and appearance design subject to change without notice		

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AUTHORIZED DEALER



LUX CORPORATION, JAPAN

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LUXMAN STATUS SERIE - HIFI FÜR PURISTEN

Mit den neuen Komponenten der Status-Serie führt LUXMAN seine Tradition fort, hochentwickelte Technologien und hervorragende Klangqualität mit zeitlosem Design zu verbinden.



LUXMAN CAT TUNER T 530

Der T 530 ist der erste UKW/MW-Tuner mit der exklusiv von LUXMAN entwickelten Technologie namens "CAT"-Computer Analyzed Tuning. CAT sorgt durch 4-fache Bewertung des UKW-Eingangssignals für eine optimale Anpassung des Tüners an die jeweiligen Empfangsverhältnisse. Der Computer führt dabei folgende vier Funktionen automatisch aus:

1. Zuschaltung eines Eingangsabschwächers beim Empfang von Signalen hoher Feldstärke zur Vermeidung von Inter- und Kreuzmodulationen.
2. Umschaltung der ZF-Bandbreite entsprechend der Empfangsbedingungen.
3. Einschaltung eines CS-Filters (Antibirdie) bei dicht benachbarten Sendern zur Verhinderung von "Zwitscher"-Störungen.
4. Zuschaltung einer "High-Blend"-Einrichtung zum rauschfreien Empfang schwach einfallender Stereo-Sender.

Damit ist der LUXMAN T 530 in idealer Weise für die sehr schwierigen Empfangsverhältnisse hierzu-lande geeignet. Eine manuelle Veränderung der von Computer vorgenommenen Einstellungen ist möglich.

Der T 530 arbeitet in Digital Synthesizer-Technik und erlaubt das Abspeichern von 16 UKW- und 8 MW-Stationen. Mit Hilfe der "Memory-Scan"-Funktion können alle abgespeicherten Stationen nacheinander im 5-Sekunden-Rhythmus abgefragt werden. Eine präzise Ausrichtung einer Rotorantenne wird durch die 7-stellige LED-Anzeige erleichtert. Der T 530 ist in verschiedenen Gehäusevarianten lieferbar, die eine problemlose Kombination auch mit verschiedenen Komponenten des LUXMAN-Programms zulässt.

Technische Daten

Eingangsempfindlichkeit
Trennschärfe
Klirrfaktor
Geräuschspannungsabstand
Übertragungsbereich
Kanaltrennung
Abmessungen (BxTxH)

Gewicht

0,9 μ V (75 Ohm)
> 75 dB (schmalbandig)
< 0,03% (Stereo)
> 81 dB
20...15.000 Hz
> 80 dB
453 x 344 x 87 mm
(m. Holzgehäuse)
438 x 344 x 87 mm
(m. Metallgehäuse)
6,8 kg