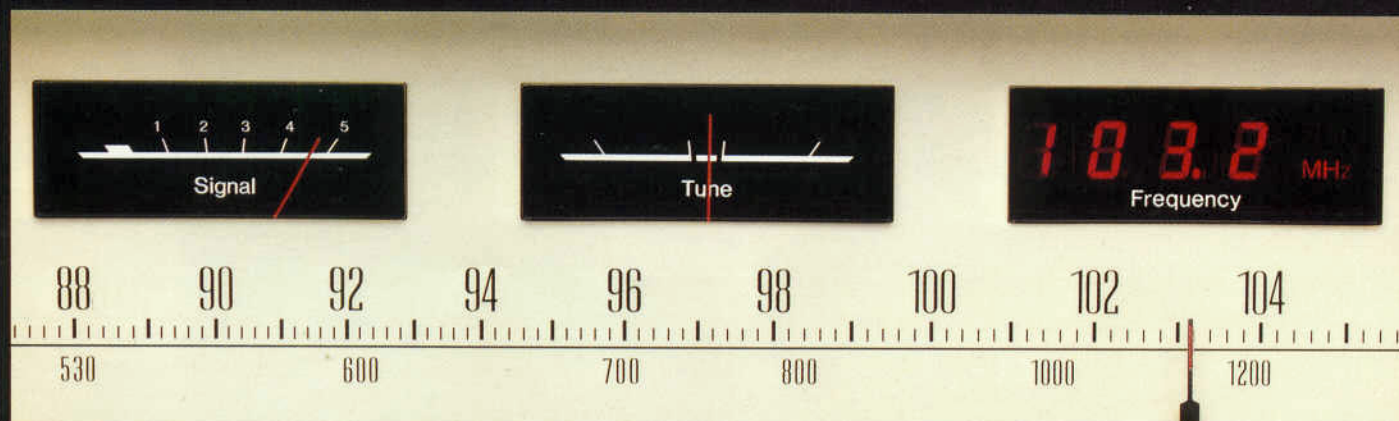


Patented Digitally Quartz-Locked Tuning.

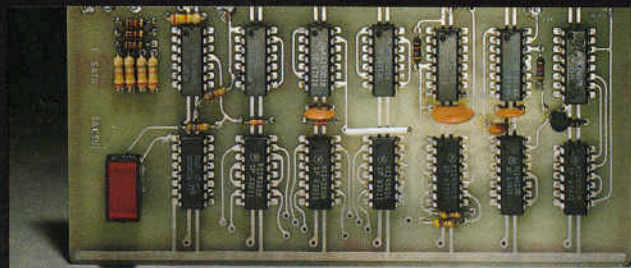


Sansui Exclusive FM Digitally Quartz-Locked System: Contained in a single LSI.

We've combined a quartz crystal, providing a rock-steady reference base, with an error-free digital control in the TU-919. This Sansui-exclusive system detects any tuning error caused by temperature, voltage and humidity changes and compensates for it instantly. Drift is now a thing of the past.

Most other quartz tuners use analog phase reference controls that compare phase of two frequencies between the local oscillators and quartz crystals, in order to check and correct errors (drift). But our TU-919 doesn't; instead it has a digital control system.

With it the frequency counter samples the local oscillator's frequency constantly, once every 0.01 seconds, timed by the accurate quartz. When there's an error, it's converted to digital units, which are then converted to voltage to control the local oscillator. When there's no error, the tuned frequency is locked to the station's frequency.



The Large-Scale Integrated Circuit (LSI) you see in the foreground now compactly houses all the discrete parts, wiring and ICs grouped behind it.

Sansui's digital processing doesn't use the kind of reference signal containing infinite harmonics; therefore, we've eliminated drift without compromising spurious response ratio, signal-to-noise ratio, sensitivity or other important specifications.

Three more features make the Sansui system still easier to use. One, you need not remove your hand from the knob to make sure the station is surely quartz-locked. Two, locking range is wide, even rough tuning locks in the desired station and keeps it locked for hours. Three, should you turn off the tuner, a built-in Re-Lock system memorizes your station for instant recall when you switch it on again.

Sansui has received patents on our Quartz/Digital-Lock System. And to ensure long-term reliability of its operation we've packaged it all in a single LSI (Large-Scale Integrated Circuit) with circuits equivalent to thousands of discrete transistors, resistors and diodes. It can never fail.

Digital Readout: Tuned FM and AM stations are precisely displayed.

If station tuning in the FM frontend of any tuner is off by even the thinnest hair, no following circuitry can restore the hi-fi quality mistuning damages. In the fully state-of-the-art TU-919 we've used the best backup circuitry yet developed to ensure top tonal quality; the new Quartz/Digital-Lock makes sure that backup circuitry gets the chance to prove its worth.

Because digital circuitry can be put to many uses at once, some of the same precision elements in the frequency control system double to provide a digital frequency readout on the front panel of the TU-919. The display has easy-to-read numbers to confirm the selection you've made on the conventional analog scale, as you see from its dial plate.



Quartz Locked