

ROTEL

®

137-50

AM/FM STEREO
RECEIVER

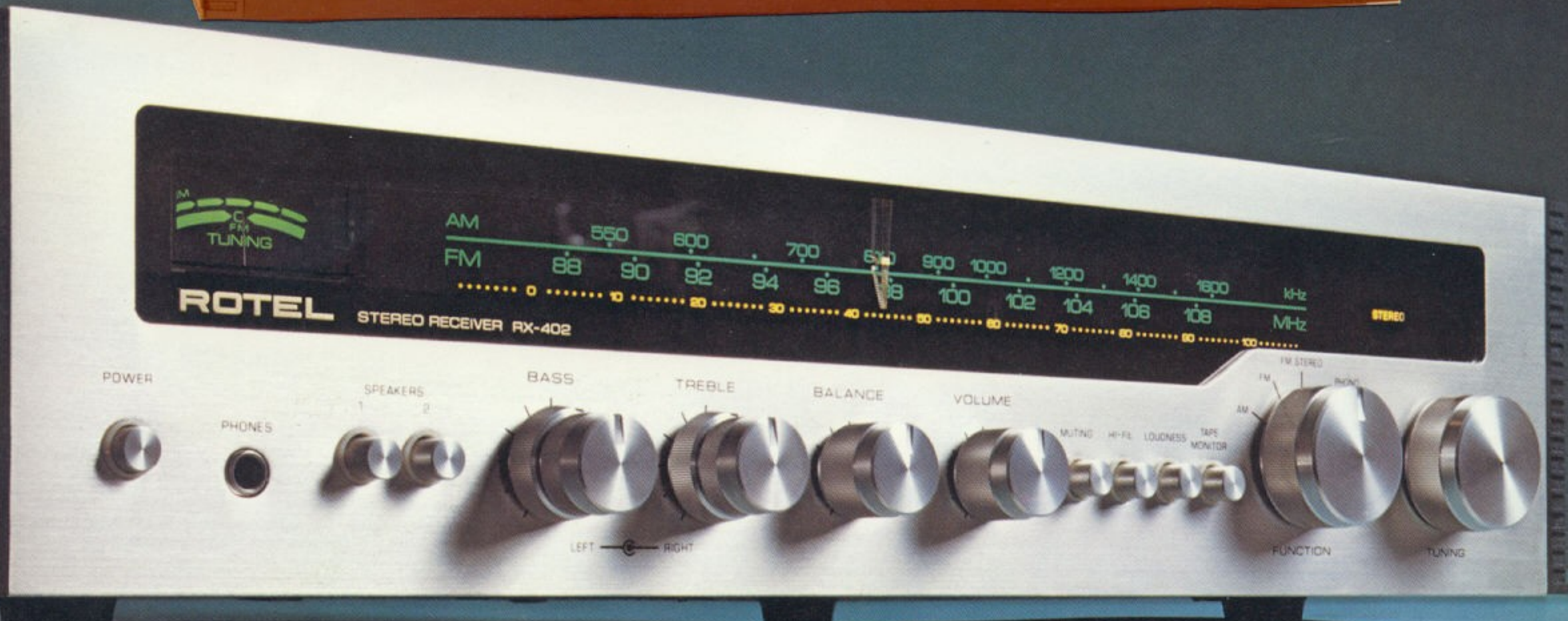
RX-402

The RX-402.
If the spirit moves you toward
something special.
It'll take you there.

You can't beat the big quality advantages the RX-402 AM/FM Stereo Receiver adds to Rotel's existing line-up of performance equipment. It's versatile for sure....you can add it confidently to an existing stereo system, or you can use it for starters and build a living room system around it. Whichever, it's been engineered throughout

to take you in the direction of something very special, which we'd like to call a solidly satisfying world of stereo. This is what stereo should be—and this the way we've mixed and matched all the advanced electronics in the RX-402 so it comes out that way.

FINISHED IN BLACK MATT.



ROTEL® RX-402 AM/FM STEREO RECEIVER

Here're the features that take you there...



High Performance Sound-Oriented Tuner . . .

We don't mean shallow words when we say high performance sound-oriented tuner. We mean things more substantial like an FM FET front end for outstanding sensitivity with very low distortion and excellent rejection characteristics. We mean ceramic filters and integrated circuitry in the FM IF section for stability and selectivity. We mean the things that mean high performance.

Extra Wide Linear FM Dial Scale . . .

The extra width of the linear FM dial scale is that something extra that's standard on all Rotel receivers. It makes for easy, precise tuning on the easy-to-see vernier scale.

Large Dual Function Tuning Meter and Large Tuning Knob . . .

Clear indication of signal strength . . . and center tuning make for exacting accuracy, and so does the smooth flywheel action of the over-size tuning knob.

Advanced PLL MPX for Improved Stereo Separation . . .

Stereo separation isn't an

abstract term created to confuse you. It's something very real, and you've got to compare the good with the bad to really get your teeth into it. Rotel makes it good . . . with PLL (phase lock loop) integrated circuitry and other improved circuitry in the MPX section. And in addition to effective separation over a wide frequency range, this circuitry also means excellent frequency response with distortion so low it's negligible.

Professional FM Muting . . . FM muting effectively removes all annoying inter-station noise when tuning into FM broadcasts. When a receiver doesn't have this important feature — you know it right away!

High-power low-distortion power amp . . .

The RX-402 gives you a split power supply and all directly coupled OCL circuitry with low-noise silicon transistors used throughout for superb output — 20W/20W RMS continuous power into 8 ohms at less than 0.5% THD both channels driven from 20 to 20,000 Hz.

Advanced NF and IC equalizer amp . . . A low-distortion 2-stage directly coupled NF (negative feedback) circuit with high-voltage integrated circuitry achieves brow-raising RIAA characteristics. The tone controls also have important NF type circuitry for ameliorated reproduction quality.

We don't impress with controls and switches . . . they're there with a function you'll need now or later . . . Volume; bass and treble are concentric type controls and have convenient stepped-adjust functions; balance; selector; loudness; FM muting; high filter; tape monitor; two speaker switches for two pair of speakers; rear panel simulated 4-channel activation switch for 'surround-sound' effect; and a durable power switch.

Connection capabilities . . . Inputs for PHONO, TAPE, AUX and TAPE MONITOR; outputs for TAPE, AUX, and TAPE MONITOR; separable pre-amp and power amp by use of inputs and outputs; terminals for FM antenna connection; terminal for external AM terminal; AM ferrite loopstick antenna on rear panel; front panel headphone jack; and AC outlets for convenience.

Plus this important extra . . . electronic protection circuit . . . This is automatic resettable protection circuitry that protects your speaker system from overload. It's also protection for electronic components in DC circuits.

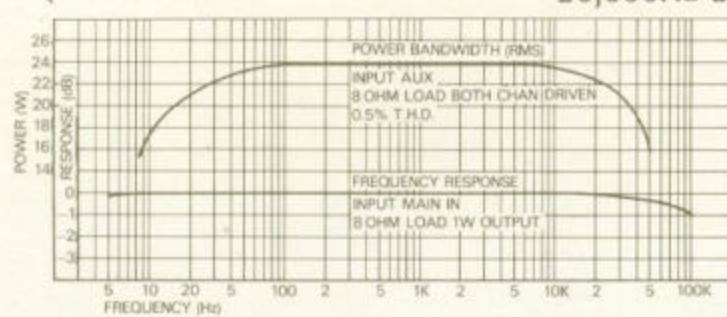
Long, lean, and low . . . This is the kind of styling that complements it all. Highlighted all the more by a hair-line brushed extruded aluminum front panel with snappy metal knobs and a simulated walnut finish cabinet.

Like we said . . . when the spirit moves you toward something special, this is the special receiver that'll take you there.

SPECIFICATIONS

AMPLIFIER SECTION

Music Power Output (IHF)	110W (4 ohms)
Continuous Power Output (RMS)	36W/36W (4 ohms)
(each channel driven)	28W/28W (8 ohms)
Continuous Power Output (RMS)	26W/26W (4 ohms)
(both channels driven)	24W/24W (8 ohms)
	20W/20W (8 ohms, from 20 to 20,000Hz at less than 0.5% THD)



Harmonic Distortion	less than 0.15% (18W/18W RMS)
IM Distortion	less than 0.2% (18W/18W RMS)
Power Bandwidth (IHF)	5 to 50,000Hz (8 ohms)
Frequency Response	10 to 75,000Hz ± 3 dB
Damping Factor	30 (8 ohms, 1 kHz)
Input Sensitivity Impedance	MAIN IN 580mV/35kohms
	TAPE MONITOR 125mV/15kohms
	AUX 125mV/22kohms
	PHONO 2mV/60kohms
Tape Output	340mV/5 kohms
Phono Overload	85mV (1 kHz)
Phono Equalization	RIAA S.T.D. ± 1.0 dB
Base Control	± 10 dB at 100 Hz
Treble Control	± 10 dB at 10 kHz

Loudness Contour	± 8 dB/100Hz, + 5dB/10kHz
Crosstalk	50 dB
Hum and Noise (S/N)	PHONO 65 dB
(continuous power output)	TAPE 80 dB Residual 0.5mV
Speaker Impedance	4 to 16 ohms

FM TUNER SECTION

Frequency Range	88 to 108 MHz
Sensitivity (IHF)	2.0 microvolts
Signal-to-Noise Ratio	67 dB
Harmonic Distortion	0.2 %
Selectivity	70 dB ± 400kHz
Capture Ratio	2 dB
Stereo Separation	35 dB at 1 kHz, 30 dB at 10kHz
IF Rejection	80 dB
Image Rejection	60 dB
Spurious Response Rejection	70 dB
SCA Suppression	70 dB
AM Suppression	55 dB

AM TUNER SECTION

Frequency Range	525 to 1650 kHz
Sensitivity	20 microvolts
Selectivity	30 dB
IF Rejection	45 dB
Image Rejection	50 dB

GENERAL

Power Consumption	200W (maximum)
Power Supply	AC 100, 120, 220, 240V 50/60 Hz
Dimensions (overall)	18-5/8"W x 13"D x 4-1/2"H
Weight (net)	7 kg/15 lbs.

Quality. Uncompromised.

ROTEL®

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Printed in Japan 40550

Note: Features and specifications subject to change without prior notice.