

marantz®

STEREO RECEIVERS



We sound better.

When you say...
"I own a Marantz"
...you've said a lot of nice things about yourself

You've said you're an individual . . . who, when it comes to owning a home stereophonic entertainment system, wants only the very best. And to you, that "very best" isn't measured in dollars and cents. But in quality. Quality to match your own particular needs.

Because the stereo receiver you own is like the house you live in, and the clothes you wear . . . and the music you listen to. It's an extension of your own personality.

So, when you say "I own a Marantz," you're saying you're a person who simply won't compromise good taste and thorough judgment by settling for less.

Here Marantz offers six models of stereophonic receivers. Each with different features and its own separate benefits. And one of them was designed with you in mind.

You're ready for Marantz. And Marantz is ready for you . . .





MARANTZ MODEL 19 FM STEREOGRAPHIC RECEIVER

This is simply the most expensively designed stereo receiver in the world. The Model 19 offers more for your money than any other receiver made today. By taking the finest FM stereo tuner, the most sophisticated of stereo preamps, plus high-performance power amplifier — and blending them all into one precision machine ... the Marantz Model 19 is a study in excellence. Here's why. The Model 19 offers 100 Watts of continuous power into 8 Ohm speakers from 20 Hz to 20 kHz. And total harmonic and intermodulation distortion is less than 0.15% with $\pm 0.25\text{dB}$ frequency response. The built-in oscilloscope is a visual indicator that shows the finest tuning adjustment for perfect reception, even on the weakest stations. Also, the Marantz exclusive Gyro-Touch tuning wheel reduces friction and wear and assures optimum tuning accuracy. And there's the Variable Overlap Drive. This automatically compensates for natural aging of components, making each listening experience an opening night performance. Now, put all these exciting features behind a gold-anodized front panel with etched black lettering and frame it in sleek, hand-rubbed walnut cabinetry. And you have the Model 19. A classic. A professional. In a word ... a Marantz.

18 1/4" x 6 1/8" x 16", 46 lbs., shown with optional WC-9 walnut cabinet



MARANTZ MODEL 2270 AM/FM STEREO RECEIVER

Next to the fabulous Marantz \$1,200 Model 19, this is the finest receiver available. It delivers 140 Watts continuous RMS into 8 ohm speakers from 20 Hz to 20 kHz, with under 0.3% total harmonic and intermodulation distortion. Frequency response is an incredible $\pm 0.25\text{dB}$! The Model 2270 offers: individual stepped, three-zone tone controls for BASS, MID, TREBLE; provisions for four tape decks, phones, 4-channel adaptors,

ultra low-noise, low-distortion FET, RF and IF circuitry; massive heat sinks; direct-coupled output circuitry; automatic protection for internal circuitry and associated speakers; and Marantz' gold-anodized front panel. Completely enclosed metal chassis is finished in simulated walnut. Compare the outstanding Model 2270 with any other receiver!

16 $\frac{7}{8}$ " x 5" x 14", 40 lbs., shown with optional WC-22 walnut cabinet



MARANTZ MODEL 2230 AM/FM STEREO RECEIVER

With impressive specifications and Marantz-exclusive features, the low-priced Model 2230 offers more value and performance than any other receiver in its class. It delivers 60 Watts continuous RMS into 8 ohm speakers from 20Hz to 20 kHz with total harmonic and intermodulation distortion under 0.5%. Frequency response is $\pm 0.5\text{dB}$! Stepped, three-zone controls for BASS,

MID, TREBLE. Provisions for tape decks, phones, record changers, 4-channel adaptors. Ultra low-distortion FET, RF and IF circuitry. Massive heat sinks; automatic protection for internal circuitry and associated speakers, plus the famous Marantz gold-anodized front panel. Completely enclosed metal chassis finished in simulated walnut.

16 $\frac{7}{8}$ " x 5" x 14", 30 lbs., shown with optional WC-22 walnut cabinet



MARANTZ MODEL 2245 AM/FM STEREO RECEIVER

For superb FM stereo, clean power, and sophisticated control, the moderately-priced Model 2245 is unmatched at its price. With professional quality, impressive specs, and features galore, the Model 2245 delivers a full 90 Watts continuous RMS into 8 ohm speakers from 20 Hz to 20 kHz, with under 0.3% total harmonic and intermodulation distortion. Frequency response is $\pm 0.5\text{dB}$. Preamp control section includes: stepped,

three-zone tone controls for BASS, MID, TREBLE; provisions for two tape decks, phones, four-channel adaptors; ultra low-noise, low-distortion FET RF, and IF circuitry; massive heat sinks; direct-coupled output circuitry, automatic protection for internal circuitry and associated speakers; plus gold-anodized front panel. Completely enclosed metal chassis is finished in simulated walnut.

16 $\frac{7}{8}$ " x 5" x 14", 35 lbs., shown with optional WC-22 walnut cabinet



MARANTZ MODEL 2220 AM/FM STEREO RECEIVER

Traditional Marantz quality and high performance make the exciting Model 2220 a lot of receiver for little money. With utmost reliability, it offers 40 Watts continuous RMS into 8 ohm speakers, from 40 Hz to 20 kHz with total harmonic and intermodulation distortion less than 0.5%. Frequency response is an amazing $\pm 1\text{dB}$! The professional preamp control section includes provisions for record changer, tape decks,

phones, etc., plus precision control over virtually every audio variable. Behind the Model 2220's gold-anodized front panel are: low-noise, low-distortion FET, RF and IF circuitry; massive heat sinks; and automatic protection for internal circuitry and associated speakers. Completely enclosed metal chassis is finished in simulated walnut.

16 $\frac{7}{8}$ " x 5" x 14", 26 lbs., shown with optional WC-22 walnut cabinet



MARANTZ MODEL 2015 AM/FM STEREO RECEIVER

The newest addition to the Marantz line of stereophonic receivers is the compact Model 2015. Here's proof that Marantz can make a comparably priced receiver without compromising traditional Marantz styling and quality. The Model 2015 is a full 30 Watts continuous power into 8 Ohm speakers, from 40 Hz to 20 kHz, with total harmonic and intermodulation less than 0.9%. This system combines all Marantz high-performance features into a smaller

body, sized to fit any shelf or table. Complete with tape, phono and auxiliary inputs as well as quick-connect output terminals for main and remote speakers. This precision-constructed unit also offers Gyro-Touch tuning for accurate reception; plus FM muting pushswitch, which eliminates inter-station noise when tuning. With built-in ferrite AM antenna and advanced solid-state circuitry throughout, the Model 2015 is the finest stereo receiver in this price range.

14 1/4" x 4 3/4" x 12", 23 lbs., shown with optional WC-10 walnut cabinet



Rear view: Marantz Model 19 Stereophonic Receiver
(100 Watts Continuous)



Rear view: Marantz Model 2270 Stereophonic Receiver
(140 Watts Continuous)



Rear view: Marantz Model 2245 Stereophonic Receiver
(90 Watts Continuous)



Rear view: Marantz Model 2230 Stereophonic Receiver
(60 Watts Continuous)



Rear view: Marantz Model 2220 Stereophonic Receiver
(40 Watts Continuous)



Rear view: Marantz Model 2015 Stereophonic Receiver
(30 Watts Continuous)

GLOSSARY OF TERMS

TUNER SECTION

Quieting Slope: This specification reflects the ability of the tuner to suppress noise for a given amount of FM signal input. Standard procedure for stating a tuner's sensitivity is to quote the minimum signal, in microvolts, required to obtain a 30 dB of quieting (IHF sensitivity). Actually, a 30 dB quieting level is unlistenable. Marantz, therefore, while quoting a minimum signal for 30 dB quieting, quotes minimum signals required to produce listenable FM reception. These figures reflect what the tuner in reality will actually do. Quieting figures of 60 dB or higher are excellent; of course, the higher the figure the better.

FM Distortion: Is introduced by the circuitry of any tuner. The lower the figure the better. Usually, FM distortion figures are quoted for a mono signal. Yet, stereo FM is what you listen to in most cases. Marantz quotes distortion figures for both mono signals and stereo signals.

Selectivity: This specification reflects the ability of the tuner to cleanly select one station from many stations crowded together on the tuning dial. Selectivity is stated in dB's. A 60 dB selectivity figure means that a station that is very close to the station you are listening to, has to have a signal of 1,000 times stronger to overpower or affect the primary station. The higher the figure the better.

Capture Ratio: Describes a tuner's ability to suppress the weaker of the two stations that appear at the same place on the FM dial. Expressed in a dB ratio, the lower the better. A 3.5 dB capture ratio is the minimum required for quality FM reception.

Image Rejection: Expressed in dB's is an indication of the tuner's ability to suppress ghost signals, a station showing up at two different points on the FM dial, the higher the figure the better. Image rejection is important in areas having a large number of FM stations, or if you are close to a powerful FM station.

PRE-AMP SECTION

Dynamic Range: A pre-amplifier's most difficult task is to amplify the phonograph signal which is only 1/100 as strong as the signal from a tape recorder or tuner. Consequently, the noise generated by the phono-amplifier stage of the pre-amplifier must not be audible above the music or distort when higher level signal peaks, like cymbal crashes are fed into it.

These two requirements are expressed in dB's and called *Dynamic Range* or the ratio of internally generated noise to maximum signal. The higher the figure the better. 80dB is considered to be the minimum required.

AMPLIFIER SECTION

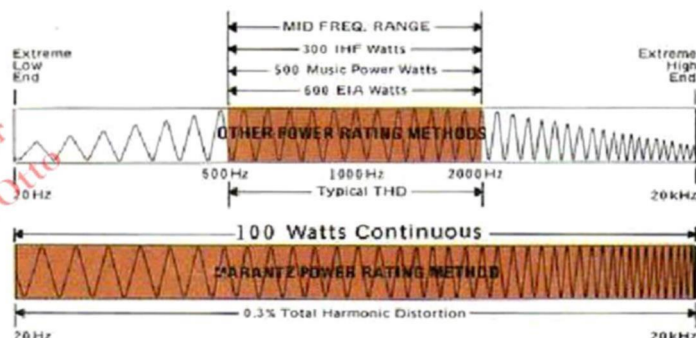
Power Output: Power rating methods can be confusing and misleading. IHF, EIA or peak power ratings tell you very little about the actual power output of an amplifier. These rating methods give no reference point, or if a reference point is given, it's a very narrow one. Music contains frequencies from 20Hz to 20,000Hz. Therefore, Power-output ratings are only meaningful when quoted as being "continuous across the entire 20Hz to 20,000Hz frequency range, with both channels driven."

Amplifiers usually drive a speaker with an 8 ohm nominal resistance. The Power Output specification must include at what resistance (impedance) the amplifier power rating is taken.

A specification equally important is the distortion present when the amplifier is producing its rated power.

Power Output Figures when referenced to continuous power for the entire audio range into an 8 ohm resistance (load) with a distortion figure, are the only specifications that actually tell you Power Output Capabilities. Marantz, at all times, publishes this complete Power Rating Specification.

Example: Power Output: Continuous Power into an 8 ohms, both channels driven at or below rated distortion, 20Hz to 20,000Hz, 70 Watts per channel; 140 Watts total.



Total Harmonic and Intermodulation Distortion: Should be quoted as a maximum for the entire audio range (20Hz to 20kHz) at, or below, rated power with all channels driven. Stating distortion measurements in this manner is the only meaningful indication of how a particular unit may be expected to function under real operating conditions.

Example: Intermodulation Distortion: (any combination of two frequencies, 20Hz to 20kHz) Less than 0.15% at, or below rated power. Expressed as a percentage (%), the lower the number, the better.

Marantz Parts and Labor Warranty

Marantz Company, Inc., proudly warrants your Marantz product to be free of manufacturing defects in material and workmanship as follows:

From date of purchase

Electronic Components and Receivers	PARTS - 3 years LABOR - 3 years
Headphones	PARTS - 3 years LABOR - 3 years
4-Channel Remote Control	PARTS - 3 years LABOR - 3 years
SQA-1 Adaptor	PARTS - 3 years LABOR - 3 years
Speakers and Cabinets	PARTS - 5 years LABOR - 5 years

TO VALIDATE YOUR WARRANTY, YOU MUST FILL OUT AND MAIL THE WARRANTY REGISTRATION CARD TO MARANTZ COMPANY, INC., P.O. BOX 99, SUN VALLEY, CALIFORNIA 91352, WITHIN TEN DAYS FOLLOWING THE DATE OF PURCHASE.

For Warranty repair, send this product to Marantz Company, Inc., 8150 Vineland Avenue, Sun Valley, California 91352, or to an AUTHORIZED Marantz Service Station. All shipping charges must be prepaid. Marantz will pay return shipping charges to any designated point within the United States.

This Warranty is void if the serial number has been altered or removed; if the product is modified or repaired in any manner which Marantz believes may affect the reliability of the product; if the product is not operated in accordance with the instruction manual.

Marantz shall have no liability whatsoever for consequential damages. The sole responsibility of Marantz Company, Inc., under this Warranty shall be limited to the repair of the product, or replacement thereof, in the sole discretion of Marantz Company, Inc.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PRECLUDES A DISCLAIMER OF WARRANTY, THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS WITH RESPECT TO THIS PRODUCT, NOR ARE THERE ANY OTHER WARRANTIES WHICH EXTEND BEYOND THE PROVISIONS OF THIS WARRANTY.

SPECIFICATIONS FOR MARANTZ STEREO RECEIVERS

AM/FM TUNER

FM QUIETING SLOPE:

RF Input for 30dB Quieting:	1.7 μ V	1.9 μ V	2.0 μ V	2.0 μ V	2.1 μ V	2.8 μ V
Quieting at 5 μ V RF Input:	55dB	55dB	55dB	53dB	50dB	42dB
Quieting at 10 μ V RF Input:	62dB	60dB	60dB	57dB	56dB	49dB
Quieting at 50 μ V RF Input:	73dB	67dB	65dB	63dB	60dB	55dB

TOTAL HARMONIC DISTORTION:

MONO:	0.15%	0.15%	0.15%	0.15%	0.30%	0.60%
STEREO:	0.15%	0.25%	0.30%	0.30%	0.50%	1.00%

SELECTIVITY: ALTERNATE CARRIER

	80dB	80dB	60dB	60dB	50dB	48dB
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CAPTURE RATIO:

	1.5dB	1.6dB	1.6dB	2.5dB	3.0dB	3.0dB
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STEREO SEPARATION: AT 1kHz

	45dB	42dB	42dB	42dB	40dB	32dB
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SPURIOUS REJECTION:

	100dB	95dB	95dB	90dB	65dB	45dB
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IMAGE REJECTION:

	85dB	90dB	80dB	70dB	50dB	35dB
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IF REJECTION:

	100dB	90dB	90dB	90dB	60dB	40dB
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AM SUPPRESSION:

	65dB	65dB	60dB	50dB	45dB	30dB
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AM SENSITIVITY:

	-----	20 μ V	20 μ V	20 μ V	26 μ V	25 μ V
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PRE-AMPLIFIER

PHONO SECTION:

Dynamic Range: Ratio of Input Overload Voltage to Equivalent Noise	100dB	96dB	96dB	96dB	93dB	93dB
Equivalent Noise Input:	1.0 μ V	1.5 μ V	1.5 μ V	1.5 μ V	2.2 μ V	2.2 μ V
Sensitivity and Impedance:	1.0mV 47kOhms	1.8mV 47kOhms	1.8mV 47kOhms	1.8mV 47kOhms	2.1mV 35kOhms	2.1mV 35kOhms

HIGH LEVEL: Input Sensitivity and Impedance

	100mV 100kOhms	180mV 100kOhms	180mV 100kOhms	180mV 100kOhms	180mV 100kOhms	150mV 100kOhms
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tone controls:

Bass: 50Hz	$\pm$ 15dB	$\pm$ 15dB	$\pm$ 15dB	$\pm$ 15dB	$\pm$ 12dB	$\pm$ 12dB
Mid: 700Hz	-----	$\pm$ 6dB	$\pm$ 6dB	$\pm$ 6dB	-----	-----
Treble: 15kHz	$\pm$ 16dB	$\pm$ 15dB	$\pm$ 15dB	$\pm$ 15dB	$\pm$ 12dB	$\pm$ 12dB

OUTPUT LEVEL AND IMPEDANCE:

	-----	1.0V 900 Ohms	1.0V 900 Ohms	1.0V 900 Ohms	-----	-----
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POWER AMPLIFIER

POWER OUTPUT: Continuous Power at 8 Ohms, at or below Rated Distortion, 20Hz to 20kHz, Both Channels Driven

100 Watts (50/Ch)	140 Watts (70/Ch)	90 Watts (45/Ch)	60 Watts (30/Ch)	40 Watts* (20/Ch)	30 Watts* (15/Ch)
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IM DISTORTION: At or Below Rated Power, Any Combination of Two Frequencies

0.15%	0.3%	0.3%	0.5%	0.5%	0.9%
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THD: At or Below Rated Power, Any Frequency from 20Hz to 20kHz

0.15%	0.3%	0.3%	0.5%	0.5%	0.9%
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FREQUENCY RESPONSE: High Level Input, from 20Hz to 20kHz

0.25dB	0.25dB	0.5dB	0.5dB	1.0dB	1.0dB
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POWER BANDWIDTH: IHF, Both Channels Driven

8-80kHz	7-70kHz	7-70kHz	15-50kHz	15-50kHz	20-22kHz
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INPUT SENSITIVITY AND IMPEDANCE:

-----	1.0V 100kOhms	1.0V 100kOhms	1.0V 47kOhms	-----	-----
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DAMPING FACTOR:

80	59	55	50	45	40
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*40Hz-20kHz

marantz.

P. O. Box 99, Sun Valley, California 91352

We sound better.

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