

YAMAHA

RX-730 RS

Natural Sound AM/FM Stereo Receiver

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Archiv Michael Otto



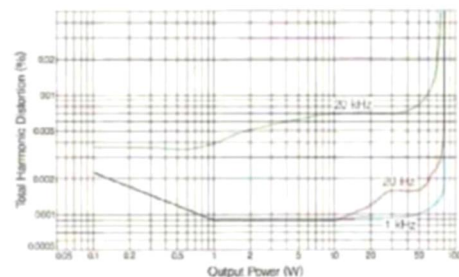


A New Dimension in Audio and Video Sound Quality

Yamaha's RX-730 Natural Sound AM/FM Stereo Receiver brings you closer than ever before to the total experience of a live performance. And, since we all know that attending a live performance is, of course, a visual as well as a listening experience, Yamaha's great advances in sound and image reproduction allow you to enjoy both the thrill of high-quality video and true stereophonic sound right in your home.

By acting as the control center in a high-quality multi-component audio/

Total Harmonic Distortion vs Output Power (CD Direct)



visual system, the RX-730 broadens the performance of sources. The result is, sound quality second to none, because the RX-730 was designed to reproduce the wide dynamic range and high linearity of digital sources with absolute clarity.

A Complete Multi-Component Audio-Visual System

The RX-730 has a 6-position input source selector. With it, you can choose Tuner, CD, Phono, LD, DAT/Tape 1, or VCR/Tape 2. Because there is a total of 6 different A/V inputs (6 audio and 2 video) you can combine the finest in video image components with the highest-quality

An Input/Output Summary

	INPUT		OUTPUT	
	AUDIO	VIDEO	AUDIO	VIDEO
PHONO	✓			
CD	✓			
TUNER	✓			
DAT/TAPE1	✓		✓	
VCR/TAPE2	✓	✓	✓	✓
LD	✓	✓		
MONITOR				✓

audio equipment to make a complete multi-component A/V system. And, with the ability to select sound and picture independently, you have an integrated system that can add new excitement and realism to all your video sources, and expand their capabilities as well.

RS Integrated Remote Control

Because you can build a complete audio/visual system around the RX-730, Yamaha included the capability to control every component you have with one remote control unit. RS capability means that, not only can you easily assemble a sophisticated system that meets all your needs, you can also control that system from across the room. With the supplied Remote Control Unit, you can control major functions of your Yamaha RS-compatible tuner, cassette deck, CD, etc. This allows you to tune in your favorite AM or FM station, playback a cassette tape or listen to a CD without having to change your listening position.

6-Position REC OUT Selector, For Easier Recording

For that extra convenience Yamaha is famous for, the RX-730 has a 6-Position REC OUT Selector Switch, letting you choose from Phono, CD, Tuner, DAT/Tape 1, VCR/Tape 2, or LD. With this feature, you can listen to one source while recording another. For example, you can record from compact disc to cassette tape while enjoying a Laser Disc movie. And, as well as offering the conventional tape-dubbing capability, you can also record any audio source onto the audio track of

Only in a Yamaha *The reproduction of sound is a commitment that begins and ends with music. A challenge that is met not only in the laboratory, but in the recreation of the human feelings and emotion that are the ultimate test of music.*

At Yamaha, we take the commitment seriously. That's why we're specialists in contemporary technologies. We custom design and manufacture LSIs that are the standard of quality for digital sound in both electronic musical instruments and compact disc players. We develop new metals and synthetic materials that recreate the rich acoustic properties of more traditional materials, meeting the stringent requirements of high-performance electronics. And we draw on our skill in craftsmanship, the result of a century of experience in making fine musical instruments, to ensure a special standard of quality in both sound and styling.

A standard of quality found only in a Yamaha.

RX-730

Natural Sound AM/FM Stereo Receiver

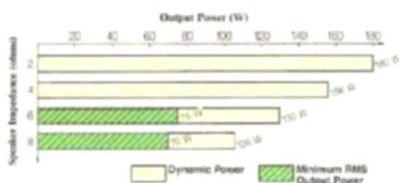
your VCR—to produce your own movies with an original sound track.

High Dynamic Power and Low-Impedance Drive Capability

More evidence that the Yamaha RX-730 provides only the best in sound reproduction is the high dynamic power and low impedance drive capability. Gone are the clipping and distortion that occur in conventional amplifiers that lack the dynamic power to perfectly follow the amplitude of a music signal. With the RX-730's wide dynamic range, broad frequency response, and improved signal-to-noise ratio, music signals are closer to perfection than ever before.

Digital sources have exceptional dynamic range, but they also have exceptionally high energy transients. Conventional amplifiers can't handle these peaks—they clip and distort them. But the RX-730 is designed to accommodate this power need, with exclusive audio capacitors, heavy-duty wiring, and rugged circuit

Output Power vs. Speaker Impedance



components. This design ensures that there is always enough dynamic power when needed. This capability, of continuously driving loads down to 2 ohms, is included to compensate for the lowered output impedance of multiple-speaker systems and the reduced "live-signal" impedance of actual loads.

The features of the RX-730 are intended to reproduce brilliant digital audio, with all the balance, range, and imaging intact.

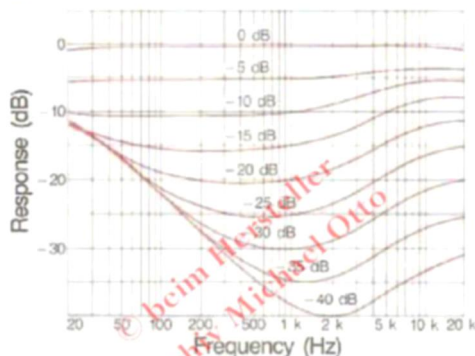
CD Direct Switch

The RX-730 includes a CD Direct Switch so you can send the high-quality audio signals from your CD player directly to your speakers. By completely bypassing the Loudness, Balance and Tone Controls, the pure sound of compact discs can be enjoyed with no alterations. Also with the built in CD amplifier, undesirable signals are prevented, which further guarantees clear music.

Continuously Variable Loudness Control

For superior tonal response at low listening levels, the RX-730's state-of-the-art control amplifier section uses the Yamaha original Continuously Variable Loudness Control. With this feature, mid-range frequencies are attenuated to make up for the human ear's reduced perception of the high and low frequencies at low volume. Thus, the proper tonal balance is maintained at all volume levels.

Continuously Variable Loudness Control Characteristics



Tone Bypass Switch and Pre-Main Coupling Loop

In order to achieve the optimum tonal response for every sound source, the RX-730 has Bass and Treble Tone Controls. The effect of these controls can be eliminated by setting them to their center Defeat position. Or, to listen to music with a perfectly flat response, simply switch on Tone Bypass.

In many systems, a graphic equalizer, sound processor, or other such audio component can be difficult, if not impossible, to connect and use. But the RX-730 has a Pre-Main Amplifier Coupling Loop to make this addition easy. These extra connections allow the signals from the pre-amplifier to the main amplifier to be cut, and routed out to and back from your extra component, without having to readjust any rear panel connections.

Direct PLL IF Count Synthesizer Tuning, For the Ultimate in Tuner Reception Quality

The RX-730 tuner has Direct PLL IF Count Synthesizer Tuning, to ensure the most reliable AM/FM reception possible. This unique Yamaha system produces absolutely no interference-causing RF



noise as it locks the tuner onto the broadcast frequency. The microprocessor-controlled IF Count Tuning process also aids tuning accuracy when the receiver is in Auto Search or Preset Tuning mode.

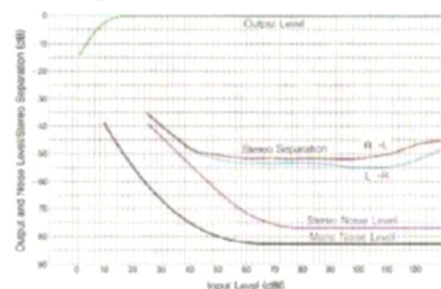
In addition, a 12-segment Signal Quality Meter adjacent to the frequency setting display indicates the AM/FM broadcast signal quality. This gives you optimum control over the best tuning possible.

Superior AM Performance

Yamaha's "no-compromise" design principle means that AM reception has not been overlooked in the RX-730. The IF amplifier stage has a high-performance integrated circuit of the type used in the best FM tuners. This, together with a high-Q coil and new-type High Gain AM Loop Antenna, bring you a new level of excellence in AM sensitivity and clean sound.



FM Antenna Input vs Output and Noise Level/Stereo Separation



A New Standard of Operational Convenience

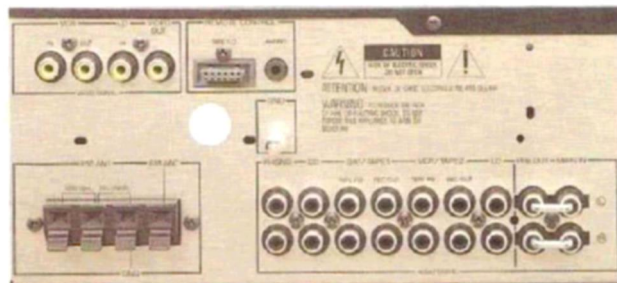
No detail was overlooked in the effort to make the RX-730 the ultimate in convenience. For example, 16-Station Random Access Preset Tuning, with multi-status memory, lets you enter any combination of AM and FM stations for instant recall. A Speaker Selector Switch allows you to use the A and B speakers singly or in combination. And the RX-730 also has Auto Search Tuning, Manual Up/Down Tuning, a Tuning Mode Selector for Auto/Stereo or Manual/Mono.

60-Minute Sleep Timer

We often like to go to sleep with music, but don't because it would play all night. But with the RX-730 you can. Just press the SLEEP key on the remote control unit, and 60 minutes later everything shuts off.

Other Features

- Balance Control
- Front Panel Headphones Jack
- Motor Driven Volume Control with LED Indicator



Rear Panel

RX-730 SPECIFICATIONS



Minimum RMS Output Power per Channel: 70 Watts* [65 W] (8 ohms) from 20 to 20,000 Hz at no more than 0.02% Total Harmonic Distortion
75 Watts (6 ohms) from 20 to 20,000 Hz at no more than 0.03% Total Harmonic Distortion

<AUDIO SECTION>

Minimum RMS Output Power per Channel	
8 ohms, 1 kHz, 0.02% THD	80 W
Dynamic Power per Channel (by IHF Dynamic Headroom Measuring Method)	
8 ohms	106 W* [104 W]
6 ohms	130 W* [116 W]
4 ohms	156 W* [144 W]
2 ohms	180 W* [170 W]
Power Bandwidth	
(8 ohms, Half Rated Power, 0.1% THD)	10 to 50,000 Hz
Damping Factor (8 ohms, 1 kHz)	50
Input Sensitivity/Impedance	
Phono	2.5 mV/47 k-ohms
CD etc.	150 mV/47 k-ohms
Main In	1 V/33 k-ohms
Input Sensitivity (New IHF)	
Phono	0.31 mV
CD etc.	18.6 mV
Maximum Input Level (1 kHz)	
Phono	110 mV
Output Level/Impedance	
Rec Out	150 mV/1 k-ohm
Pre Out	1 V/1 k-ohm
Headphone Jack Rated Output/Impedance	
8 ohms, 0.015% THD	0.8 V/220 ohms
Frequency Response (20 to 20,000 Hz)	
CD etc.	±0.5 dB
Main In	±0.5 dB
RIAA Equalization Deviation Phono	±0.5 dB
Total Harmonic Distortion (20 to 20,000 Hz)	
Phono to Rec Out, 3 V	0.005%
CD etc. to Pre Out, 1 V	0.005%
CD etc. to Sp Out, Half Rated Power/8 ohms	0.009%
Main In to Sp Out, Half Rated Power/8 ohms	0.009%
Intermodulation Distortion	
CD etc., Rated Power/8 ohms	0.01%
Signal-to-Noise Ratio (IHF-A Network)	
Phono (5 mV Input Shorted)	94 dB
CD etc. (Shorted)	103 dB
Main In (Shorted)	121 dB
Signal-to-Noise Ratio (New IHF)	
Phono	76 dB
CD etc.	85 dB

Residual Noise (IHF-A-Network)	160 μ V
Channel Separation (Vol. -30 dB)	
Phono Input Shorted, 1 kHz	55 dB
CD etc. Input 5.1 k-ohms, 1 kHz	52 dB
Tone Control Characteristics	
Bass Boost/Cut	±10 dB (50 Hz)
Turnover Frequency	350 Hz
Treble Boost/Cut	±10 dB (20 kHz)
Turnover Frequency	3.5 kHz
Continuous Loudness Control Attenuation	
Level-Rated Equalization	-40 dB (1 kHz)
<VIDEO SECTION>	
Video Input/Impedance (Video, LD)	1 Vp-p/75 ohms, unbalanced
Video Output/Impedance (Video)	1 Vp-p/75 ohms, unbalanced
Video Signal-to-Noise Ratio (W, 50%)	52 dB
Video Frequency Response (10 Hz to 15 MHz)	±1 dB
<FM SECTION>	
50 dB Quieting Sensitivity (IHF, 75 ohms)	
Mono	1.55 μ V (15.1 dBf)
Stereo	21 μ V (37.7 dBf)
Usable Sensitivity (30 dB S/N Quieting)	
75 ohms, 1 kHz, 100% Mod.	0.8 μ V (9.3 dBf)
Image Response Ratio	45 dB
IF Response Ratio	80 dB
Spurious Response Ratio	70 dB
AM Suppression Ratio	55 dB
Capture Ratio	1.5 dB
Alternative Channel Selectivity (IHF)	55 dB
Harmonic Distortion	
Mono 1 kHz	0.07%
Stereo 1 kHz	0.07%
Stereo Separation (1 kHz)	52 dB
Frequency Response (30 to 13,000 Hz)	±0.5 dB
<AM SECTION>	
Usable Sensitivity	10 μ V (250 μ V/m)
Selectivity	32 dB
Signal-to-Noise Ratio	50 dB
Image Response Ratio	40 dB
Spurious Response Ratio	50 dB
Harmonic Distortion (400 Hz)	0.3%
Dimensions (W x H x D)	435 x 126 x 291 mm (17-1/8" x 5" x 11-7/16")
Weight	6.7 kg (14 lbs. 12 oz.)

*US and Canadian models. []: other area models
Specifications subject to change without notice.

The  symbol indicates compatibility with all Yamaha  integrated remote System Remote Control Compatible components.

For details please contact:

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