

ESOTERIC

Integrated Music System RZ-1

Integrated  
Music System  
RZ-1  
Specifications



The remote control is housed in an aluminum body, providing a weighty feel in the hand and exuding a sense of refinement.

**Amplifier Section**

Output Power	100 W + 100 W (1 kHz, 6 Ω, JEITA)
Minimum rated power output	80 W + 80 W (1 kHz, 0.1 %, 6 Ω, LPF 20 kHz) (JEITA)
Minimum impedance	4 Ω
Frequency response	15 Hz - 65 kHz (+1 dB, -3 dB, 6 Ω) (JEITA)
Total harmonic distortion	0.003 % (1 kHz, output 45 W, 6 Ω, LPF 20 kHz) (JEITA)
Signal-to-Noise Ratio (S/N)	102 dB
Input Sensitivity	LINE : 46 mVrms (JEITA)
(input level for rated output at maximum volume)	PHONO (MM) : 1.0 mVrms (JEITA)

**Audio input**

**Analog input**

Jacks	RCA jacks (2 channels) x 2
Input impedance	LINE: 100 kΩ (JEITA) PHONO: 48 kΩ (JEITA)
RIAA deviation PHONO (MM)	20 Hz to 15 kHz, ±0.5 dB

**Digital input**

COAXIAL jack	RCA jack x 1 (0.5 Vp-p/75 Ω)
OPTICAL jack	Optical digital jack x 1 (-24.0 to -14.5 dBm peak)
USB port	USB type B x 1 (USB 1.1 or higher)
Input sampling frequency	COAXIAL/OPTICAL : 32 kHz to 192 kHz USB : 32 kHz to 96 kHz

**CD/Super Audio CD Player**

Compatible format	Super Audio CD, CD-DA
Compatible disc type	Super Audio CD, CD, CD-R, CD-RW
Playback mode	DSD native

**D/A Converter**

Digital filter	32 bit 8-times oversampling
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**General**

Power supply	Europe model : AC 230 V, 50 Hz U.S.A./Canada model : AC 120 V, 60 Hz Korea model : AC 220 V, 60 Hz
Power consumption	105 W (standby mode: 0.5 W)
External dimensions (W x H x D)	400 x 77 x 368 mm (15-3/4" x 3" x 14-1/2") (including protrusions)
Weight	9 kg (19-7/8 lb)
Operating temperature	+5 °C to +35 °C
Operating humidity	5 % to 85 % (no condensation)
Storage temperature	-20 °C to +55 °C

**Accessories**

Power cord x 1 Remote control unit (RC-1251) x 1 Batteries (AA, R6 or SUM-3) x 2 Felt pads x 4 Owner's manual x 1 Warranty card x 1
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English version



## Sophisticated integration of high end elements dedicated to audiophiles.

The ESOTERIC "RZ-1" is a high-end integrated music system that houses a Super Audio CD/CD drive mechanism, a 32 bit D/A converter, a phonostage and an integrated amplifier, all within an elegant, low profile body.

The RZ-1 features a drive mechanism that is capable of Super Audio CD and CD playback using its high resolution 32-bit DA converter. This system offers a complete set of external inputs, including three digital inputs (USB, coaxial, and optical digital), enabling it to support digital audio inputs in studio master quality from a PC or other external devices. The RZ-1 is also equipped with ESOTERIC's custom design integrated power amplifier, which amplifies all sources signals in true high fidelity.

Though the RZ-1 is an integrated system that is best suited for casual listening, it faithfully incorporates the high-end design implementation that is characteristic of ESOTERIC, and was developed to be the finest integrated music system in its class.



### Slot loading SACD/CD drive mechanism

'High-rez media convergence' is the design philosophy of the RZ-1. The RZ-1 is compatible with high-rez SA-CD discs.

### Three types of digital input terminals, including USB to support the playback of high-resolution PC based music files

In addition to coaxial and optical inputs (24-bit/192 kHz compatible), the RZ-1 is also equipped with a USB input (24-bit/96 kHz). By connecting to your PC and utilizing high levels of data resolution to transmit and amplify sound, this system enables you to playback high-resolution music files, from hard disk drive PC storage, in studio master quality.

ESOTERIC's high-end expertise was fully applied to design the USB input, with great care and attention given to detail. In order to prevent external interference from mixing with the audio signal, the RZ-1 is equipped with a USB isolator. This enables the RZ-1 to isolate the USB power supply and signal lines from the device.

### 32-bit D/A converter with true high quality sound

The DAC device installed in the RZ-1 is the "AK4392", produced by Asahi Kasei Microdevices Corporation. This device is compatible with both DSD and PCM formats. Our relentless pursuit to produce high quality sound is also reflected in the digital signal processing circuit that was developed for the RZ-1. This circuit delivers high speed and

processing capabilities, and enhances the analog circuit's ability to receive data.

The input I/F, digital filters, and Delta-Sigma modulator are all capable of 32-bit processing. If data with a resolution of 24 bits or less is input, the digital operation circuit performs high-precision extrapolation, thereby contributing to higher sound quality.

### Two types of user selectable digital filters

The RZ-1 is equipped with two different types of digital filters for PCM format signal processing. In addition to the finite impulse response ("FIR") digital filter, which is known for its outstanding sound quality, a short-delay digital filter is also available to remove the pre-echo effect inherent in impulse waveforms, thus creating a more natural generation of sound. The filter selection used is entirely user selectable.

### ESOTERIC amplifier technology for the precise amplification of music data, delivering a smooth yet full sound

The RZ-1 is equipped with a powerful analog power supply circuit. This circuit combines the largest toroidal transformer that can be installed within the integrated system's slim body, and large capacitors for rectifying the circuit. The driving capacity of the ESOTERIC power amplifier is more than sufficient to drive low-efficiency, small-sized high-end loudspeakers, achieving a full and natural expression of sound.

### Two sets of analog input terminals

The RZ-1 comes with two sets of RCA audio connections. One set can be switched to serve as MM phono input terminals.

### A comprehensive range of functions boost the capability of this integrated system

The RZ-1 features a wide variety of functions, including power standby, bass and treble tone controls, L/R signal balance control, a sleep timer, and display dimmer. Because it is an integrated system designed for casual listening, special care and attention has been given to ensure that RZ-1 is easy to use.

### Curved lines and surfaces create artistic front face

Low profile standing 77 mm (3 inches) tall, serves as a great compliment to your interior design. Care and attention to detail that cannot be found in mass produced items has been applied to the RZ-1, creating a product that appears to have been endowed with the craftsman's touch. The front panel, with a maximum thickness of 40 mm, is cut from a solid block of aluminum. A total of eight hours of work were needed to three-dimensionally process the aluminum, within a one-micrometer measure of precision. By deftly integrating the curved surfaces and lines with precisely cut lines, the result is an elegant, streamlined design from the front to the top, creating a sense of artistic presence.

Integrated Music System **RZ-1**

### Simple design with only the essential operations on the front panel

Looking to enjoy the pure pleasure of those moments of serenity and relaxation? For those with a refined and discriminate taste in their lifestyle, the system's operations are extremely simple. The round-shaped push buttons are designed to compliment the streamlined front design. Likewise, the simple design bearing only the essential operations, such as PLAY and volume, further enhances the system's usability and brings the pleasure of listening to music closer to your heart.

