Technical Specifications

Amplifiers

PM-17SA

Audio Section
- Dynamic range: 109 dB
- Frequency response: 2 Hz to 50 kHz (±3 dB)
- Frequency range: 2 Hz to 100 kHz

Power Section
- Power requirement: 120 V, 60 Hz, 33 W

Dynamic range (digital audio): 102 dB

Audio CD 4 Hz to 20 kHz

DVD linear sound 96 kHz sampling 4 Hz to 44 kHz

Frequency response: 20 Hz to 20 kHz

FM/AM tuner
- AM: 530 kHz to 1710 kHz
- FM: 88 MHz to 108 MHz

Dolby Digital channel separation: ≥85 dB

USB input
- Type: USB 2.0
- Speed: Full speed

RS-232C terminal
- Male
- Speed: 9600 bps

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The unique and elegant Reference Series styling is implemented using metal alloys for faceplates and other cosmetics. Inside, only the highest quality semi-conductors, power supplies and other components are utilized. Fine quality and craftsmanship are evident throughout the Reference Series, as is the prestigious Marantz reputation for cutting-edge advancements, and both digital and analog engineering triumphs.

Today, the Marantz name represents not only the finest in quality and performance, but in technological leadership and innovative design, as well. The Reference Series exemplifies the culmination of these efforts. All Reference Series products are proudly provided with a three year limited warranty.
Super Audio Compact Disc
SA-1 Super Audio CD Player

Presenting the new reference standard in digital audio – the Marantz Reference Series SA-1 Super Audio Compact Disc (SACD) Player. The SA-1 represents nothing less than an astonishing advancement in high fidelity digital audio reproduction. It offers fidelity and sonic accuracy far beyond any previous digital or analog audio playback system.

Engineered and built entirely without compromise, the Marantz SA-1 provides an unprecedented level of musical realism from Super Audio CDs, as well as exceptional playback quality from standard CDs. The SA-1 employs Direct Stream Digital (DSD) technology to achieve a remarkable new level of sonic purity. With a sampling rate of 2.8224 MHz, the SACD format can deliver a frequency response from DC to over 100,000 Hz and a dynamic range greater than 120dB – performance unmatched by any previous record/playback system. The Marantz SA-1 is truly the ultimate high fidelity music source.

The SA-1 incorporates leading-edge Super Audio CD digital signal processing circuitry with an advanced full-floating laser mechanism and die cast metal alloy housing and disc tray, plus a digital servo control for ultra precise disc tracking. Four 1-bit dual Direct Stream Digital D/A converters handle signals with perfection. Enhanced playback quality from standard CDs is also assured thanks to the SA-1’s precision digital filtering with 8-times oversampling and Bitstream technology.

The SA-1 personifies Marantz’ Reference Series parts and construction techniques to obtain the ultimate in sound quality. Included are audiophile grade internal components throughout, copper-shielded toroidal power transformer, aluminum alloy construction and a copper plated, double-layer steel bottom plate to dampen internal vibration and mechanically induced jitter. In addition, extensive internal copper shielding prevents unwanted interference.

The THX Standard For DVD
The DV-18 Mark II THX Ultra® DVD Player

Lucasfilm’s THX standards for DVD players mandate nothing less than perfection in DVD video and audio reproduction. The Marantz DV-18 Mark II is among the very few players to have risen to this challenge.

The DV-18 Mark II was designed to meet these exacting standards by incorporating numerous cutting-edge technologies. Video D/A conversion is accomplished through the use of state-of-the-art 10-bit/27MHz processing, resulting in high resolution video quality, color purity and an improved signal to noise ratio. The audio section employs the latest 24-bit/96kHz D/A converters.

Only audiophile grade premium components are used in critical signal path applications, including copper shielded HDAM’s. The DV-18 Mark II is fully compatible with both Dolby Digital® and DTS® surround sound formats. Either signal can be output through the coaxial and optical digital outputs. Gold plated video outputs include component video, S-video and composite video. Remote control operation is simplified by a comprehensive on-screen display.

The DV-18 Mark II offers a host of convenience functions including slow motion, freeze frame, multi-speed forward/reverse scan, chapter and track search and a variety of repeat modes.

High Fidelity Broadcast Reception
The ST-17 AM/FM/FM Stereo Tuner

The ST-17 Tuner is capable of reproducing broadcast signals with spectacular fidelity, free of background hiss and crackle. It excels at both signal reception and processing, to deliver sound with rare detail, clarity and spaciousness.

Convenience features abound, including one-touch 60 station preset capability, station naming function, dual FM antenna connections, and both wide and narrow FM selectivity settings. A low noise HDAM output stage ensures signal purity, while the exclusive Gyro Touch tuning wheel provides a luxurious feel.

This precision Digital Synthesized tuner is complimented by its Reference class metal alloy cosmetics, D-BUS remote connection and full remote control operation.
The SA-1 employs dual HDAM (High Definition Amplifier Modules) in a differential configuration, for vanishingly low noise and maximum signal purity. These fully discrete copper shielded output stages offer wide bandwidth, extremely fast slew rate and exceptional dynamic range.

The SA-1 is playback-compatible with CD-R discs in addition to Super Audio CDs, standard CDs and hybrid Super Audio CD/standard CD discs. Optical and coaxial digital outputs are provided for convenient digital CD recording and playback, as well as balanced (XLR) outputs for connection to a preamplifier with balanced inputs. Programming and play modes include 20-track music programming and more.

With the DR-17, Marantz offers the ultimate expression in CD recording technology. Constructed with audiophile-grade premium parts throughout, the DR-17 incorporates copper shielded HDAM’s, an OFC Winding Power Transformer and state-of-the-art Bitstream D/A and A/D conversion for the greatest signal purity. The DR-17 will create flawless recordings on both CD-R and CD-RW media, producing mirror image clones which are virtually identical to the original. Its capabilities include HDCD® copy and playback, double-speed disc finalization and sampling rate conversion which automatically converts digital audio source material to the CD standard of 16 bit/44.1 kHz, regardless of its original data rate. During CD to CD dubbing, the sampling rate converter circuit is bypassed for uncompromised sonic excellence.

Advanced editing functions and other conveniences make CD recording fast and easy, using either the metal alloy full-function remote control or front panel controls. The DR-17 has a die-cast metal transport utilizing familiar tape deck type controls and a precision calibrated recording level meter.

Other features include automatic or manual track indexing, CD-Synch recording, optical and coaxial digital inputs and outputs and D-BUS remote connection. The DR-17 all metal alloy chassis is available in both black and the classic Marantz champagne gold.

A New State of the Art in Digital Audio.

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The ergonomically designed front panel features a distinctive round center display window. The front panel display utilizes its own separate power transformer to totally isolate noise from the SA-1’s internal circuitry. Finally, the full-function aluminum alloy remote control perfectly compliments the unique beauty of the SA-1.
Amplifiers Designed for Super Audio
The PM-17SA Stereo Integrated Amplifier

With the advent of Super Audio CD technology, co-developed by Philips/Marantz, its spectacular bandwidth, unprecedented dynamic range and sonic purity require electronics of commensurate capability in order to capture and faithfully reproduce SACD without compromise. Marantz has designed the PM-17SA Integrated Amplifier to achieve the levels of performance necessary to truly appreciate the capabilities Super Audio CD technology has to offer. Voltage Plus Current Feedback circuitry is utilized in power amplifier and preamplifier sections, combined with Marantz’ exclusive High Definition Amplifier Modules (HDAM) to optimize slew rates, resulting in extremely wide bandwidth and frequency response.

Additionally, “Twin Monaural Construction” is incorporated, in which the signal routing of the left and right channels is completely isolated from one another. This effectively eliminates noise and interference inherent in traditional designs. A heavy Toroidal power transformer, premium oversized electrolytic power supply capacitors and massive cast aluminum heat sinks give this amplifier tremendous low-impedance drive capability with generous reserves.

The PM-17SA features quiet, relay-driven source switching with source direct mode, an MM/MC phono stage, and record monitor loops for CD-R and tape, as well as preamp outputs/ power amp inputs. D-BUS remote connection, a metal alloy finished remote control and three AC convenience outlets are included. The elegant Reference Class cosmetics are complimented by the front panel temperature gauge.

Superior, copper shielded High Definition Amplifier Modules (HDAMs) replace the low-cost op-amps normally used in audio products. They provide extremely fast slew rate, wide bandwidth, low noise and exceptional dynamic range. The result is a seamless transparency audiophiles have come to love in Marantz products.

The SR-19 THX Select® A/V Receiver

Younger sibling to the SR-18, the Marantz SR-19 THX Select® Digital Surround Receiver sets a new standard for the more affordable THX Select® product category, delivering high-end home theater performance in every respect. It utilizes a surround processor section with 96kHz/24 bit processing, and decoding of both Dolby Digital® and DTS® encoded soundtracks and music. In fact, the front panel is identical to the SR-18, right down to the Gyro Touch tuning wheel and elegant metal alloy finish.

The muscular power amplifier section boasts 120 watts (into 8 ohms) of THX Select® power output into each of the five main channels. It is constructed of premium quality, audiophile grade components throughout for the superb sound quality, performance and reliability which are benchmarks of the Marantz Reference Series.

The SR-19 features a wide variety of audio and video inputs, outputs and switching facilities, including S-video and composite video switching. Four assignable digital inputs (two coaxial and two optical) and two digital outputs provide plenty of versatility for digital connections, while six channel direct inputs can accommodate future technologies. A complete set of preamp outputs and power amp inputs offer flexibility for upgrade options.

The SR-19’s ergonomic on-screen menu system and RC18SR universal remote provide effortless control of an entire home theater system, while multi-room/multi-source audio and video management bring entertainment to another part of your home. For home theater environments where THX Select® products are ideal, the SR-19 will deliver the very best performance obtainable.
Our Flagship A/V Receivers
The SR-18EX THX Ultra® A/V Receiver

Like the SR-14EX, the Marantz SR-18EX offers THX Surround EX® technology (as well as DTS® 6.1), adding a center back surround channel for the ultimate surround sound experience.

The THX Ultra® certified SR-18EX features every luxurious amenity conceivable. It offers both Dolby Digital® and DTS® surround sound, all processed with 192kHz/24bit decoding for the highest possible fidelity and bandwidth. The Preamp stage features copper shielded, High Definition Amplifier Modules (HDAM), and the digital tuner section utilizes Marantz’ exclusive Gyro Touch Tuning for a silky smooth feel.

The power amplifier section employs a host of audiophile grade components including an over-sized Toroidal transformer, extra large premium-grade power supply capacitors, die cast aluminum heat sinks and voltage-plus-current feedback technology, to deliver 700 watts (140 x 5 into 8 ohms) of pure thundering power for clean, effortless reproduction of both movies and music.

The SR-18EX offers a remarkably comprehensive array of audio and video inputs and outputs, including component video, S-video and composite video low noise switching facilities. Six digital inputs (three coaxial and three optical) are complimented by two digital outputs. Preamp outputs and main amp inputs are provided for all channels, as well as six channel direct inputs. Front panel A/V inputs with S-video are also included, as is multi-room/multi-source audio and video capability and D-BUS remote connections.

Although one of the most advanced home theater receivers available today, the SR-18EX’s operation is simple and intuitive. Easy to use on-screen menus guide you effortlessly and everyday operation of an entire home theater system is easily accommodated by the included RC18SR (an advanced version of our renowned RC2000 Mk II) universal learning remote control. The versatile Marantz SR-18EX is equipped to be a powerful and sophisticated control center at the heart of even the most advanced home theater systems.

The SM-17SA Stereo Power Amplifier

Like its cousin, the SM-17SA is design to faithfully reproduce all the capabilities that Super Audio CD has to offer. For those applications where a pure power amplifier is desired, the SM-17SA is ideal. It’s the perfect companion to the PM-17SA in systems utilizing bi-amping, too.

The SM-17SA features Voltage Plus Current Feedback circuitry and High Definition Amplifier Modules, optimizing slew rates to achieve ultra-wide bandwidth and frequency response. Its “Twin Monaural” construction isolates left and right channels for uncompromised signal purity.

An oversized Toroidal power transformer; high capacity, premium power supply capacitors and cast aluminum heat sinks result in generous headroom able to handle even the most difficult load requirements.

The SM-17SA also features Balanced Transformerless bridging capability, creating a monoblock powerhouse with 200 watts output into 8 ohms.

The Reference Class metal alloy finish, distinctively elegant, is perfectly complimented by the analog temperature gauge.
The SR-14EX is constructed to the absolute highest standards, including audiophile-grade capacitors and resistors, extensive internal copper shielding, a chassis featuring a heavy-duty bottom plate to minimize internal resonances, along with machined aluminum alloy front, side and top panels for added beauty, strength and rigidity.

The SR-14EX’s THX Ultra® certified power section delivers enormous amplifier power – 140 watts RMS (into 8 ohms) to each of the five main channels with substantial reserve headroom. The power section features a high-current toroidal transformer with low impedance drive capability, premium high-storage power supply capacitors, voltage-plus-current feedback technology and fully discrete output stages housed in die cast aluminum heat sinks. Discrete power amp inputs are provided for all five amplifier channels. It all adds up to 700 watts of breathtaking power for clean, precise reproduction of movie soundtracks and music. The preamp section features copper shielded High Definition Amplifier Modules (HDAM) and the digital tuner section utilizes Marantz’ exclusive Gyro Touch Tuning for a silky smooth feel.

Our Flagship A/V Receivers
The SR-14EX THX Ultra® A/V Receiver

Presenting the next evolution in Marantz home theater receiver excellence: The SR-14EX. The finest home theater receiver ever created. Designed and built entirely without compromise, the SR-14EX redefines the state of the art in audio/video receiver performance in every respect and delivers the legendary sound quality that has made Marantz the choice of the most discriminating audiophiles and home theater enthusiasts for almost fifty years.

The SR-14EX is also ready for future surround sound formats, thanks to its six-channel direct inputs. The SR-14EX includes connections for external amplifiers, with preamp outputs for every channel. Additionally, six digital inputs and two digital outputs are provided.

In addition, the SR-14EX provides an AM/FM tuner with 50 station presets, a Source Direct switch to bypass the tone controls for purest audio quality, heavy-duty banana plug compatible speaker terminals and more — much more. The elegant Marantz SR-14EX is available in black or in limited quantities of traditional Marantz Champagne Gold.

The SR-14EX incorporates highly advanced digital signal processing circuitry, utilizing multiple 192kHz/24-bit D/A converters, a separate DSP processor and 24-bit A/D converter for extraordinary fidelity and high resolution. The SR-14EX includes built-in HCD® decoding to deliver the highest possible sound quality from HCD® encoded CDs.

The new Marantz SR-14EX offers a comprehensive array of features. Three sets of component video inputs allow easy switching between multiple component video sources. An unusually extensive number of inputs and outputs use ultra low-noise switching facilities to preserve sonic purity. The SR-14EX offers a wealth of performance and convenience features including multi-room/multi-source capability for both audio and video, easy to use on-screen menus and much more.

As sophisticated as it is, the SR-14EX’s operation is easy and ergonomic. Its front panel control layout out provides ready access to all functions, and includes front panel A/V inputs. A hinged panel covers the front panel inputs and most controls when they’re not in use for a clean, uncluttered appearance. Also featured is a large, easy to read fluorescent Panel Display which indicates key functions and settings in a logical and straightforward manner.

In addition, the SR-14EX provides an AM/FM tuner with 50 station presets, a Source Direct switch to bypass the tone controls for purest audio quality, heavy-duty banana plug compatible speaker terminals and more — much more. The elegant Marantz SR-14EX is available in black or in limited quantities of traditional Marantz Champagne Gold.