Rediscover Music

Music is borderless and timeless, touching people’s hearts across cultures and generations. Each day the discovery of a truly emotive experience from an unencountered sound awaits. Let us take you on your journey to Rediscover Music.

Technics.
Delivering the Ultimate Emotive Musical Experience to All

At Technics we understand that the listening experience is not purely about technology, but the magical and emotional relationship between people and music. We want people to experience music as it was originally intended and enable them to feel the emotional impact that enthuses and delights them. Through delivering this experience we want to support the development and enjoyment of the world's many musical cultures. This is our philosophy.

With a combination of our love of music and the vast high-end audio experience of the Technics team, we stand committed to building a brand that provides the ultimate emotive musical experience by music lovers, for music lovers.

A Musical Experience Like No Other

New encounters with sound

The audio landscape has undergone many changes over the years. From recording techniques and equipment to playback devices and types of media, the audio environment is constantly evolving and diversifying with listening convenience becoming a central need.

The rise of the Internet, and in particular broadband speeds, has made it possible to send and receive huge amounts of data allowing music to be digitally obtained at lossless quality. It is now time to enter the era of digital networks, not only putting into place our decades of audio experience, but pushing the boundaries of sound reproduction and enabling new encounters with sound for music lovers.

Technics as a lifestyle partner

Over 100 years of analogue audio history, sound quality has reached a level where people are satisfied with their listening experience. However, the digital era has much more to offer. We will utilise our decades of experience striving for the best sound reproduction possible, through both technology and design, to bring to the market a product with superior audio quality. However, this is just one step in our ultimate goal of bringing the world’s highest-class audio experience to music lovers, who will not settle for anything less than the Technics listening experience.

Director
Michiko Ogawa

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Director
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No Limits or Compromises in Sound Development

In order to achieve the ‘Technics Sound’, we have established internal rules that push and challenge us every step of the way. Dedicated audio specialists are involved in a stringent development process that includes a sound committee performing rigorous sound assessments, step-by-step quality assurance checks and numerous physical performance evaluations. Furthermore, we select the best materials for creating the optimal sound. Only when all of these requirements have been met can the uniquely inspirational ‘Technics Sound’ emerge. In order to achieve this, there will be no compromise, ever.

The Technics Sound Culture

Audio Is in our DNA

In re-launching Technics, we will be able to call upon nearly five decades of audio experience and bring this DNA into the digital age, delivering innovative digital signal processing technologies wrapped in new design forms.

A sensory experience, not just sounds

Technics products do not simply produce sounds. They play an important role in the music lover’s environment, wrapping the listener in vivid and dynamic music.

Staying true to the fidelity of the sound is crucial and we guarantee to reproduce the audio signals as faithfully as possible while maintaining a clean, crisp sound. To realize the ‘Technics Sound’, we have established no fewer than 100 internal rules. These rules not only include numerical performance but design reviews, material selection and communications with audiophiles to establish and maintain the ‘Technics Sound’. This is the culture of Technics under which true excellence will be provided by music lovers, for music lovers.

Head of Production
Koichi Miura
Since the birth of Technics in 1965, we have pursued and achieved many ‘world’s firsts’, and delivered attractive, innovative audio products to the world. The rejuvenated Technics team will bring to the table an untiring effort for improvement: surpassing what has previously been achieved and will drive to deliver sound reproduction as close as is possible to the way the artist intended.

Innovation is in Our DNA

Innovation keeps Technics* technology moving

Our company invested extensive research resources in Technics, which led to the emergence of unique technologies, such as direct-drive turntables, linear-phase speakers, and switching distortion reduction for amplifiers. These technologies helped to build a new era and drew admiration for the brand. Even since Technics temporarily left the market, the core DNA has been inherited by other products such as DVD and Blu-ray players.

Now, we are confident that we have a strong foundation for new technology to support the return of Technics.

Technics* technology for an emotive listening experience

In our view technology is only a means to deliver optimum musical experiences. The new Technics products will aim to prove just how far the boundaries of sound quality can be pushed by technology.

The introduction of our new technologies has enabled us to solve the problem of noise and distortion, as these which could not be completely eliminated by previous digital amplifiers. This has been further enhanced with the Technics coaxial speaker concept to widen the focus of the sound. New technologies, such as signal processing to optimise audio-signal-to-speaker characteristics, will also constantly be developed to meet the new requirements of high-resolution audio. Technics will not stop innovating audio technology to create the most emotional music experience possible for music lovers.

Chief Engineer

Tetsuya Itani
Our new Technics products have a timeless design that stays true to the clean, stylish lines of our traditional Technics products, whilst also allowing for the housing of superior acoustic technology. High-grade materials, precise construction, expert craftsmanship, as well as dignified colours and texture all combine to create the prestigious centre-piece of any music lover’s listening environment.

Faithful to Sound Technology, Emotionally Appealing to the Eye

Designed for sound and harmony
The new Technics products have been designed with two key design concepts at their core. The first is a design that resonates with the music lover’s heart. This is not simply a piece of electrical equipment but an essential element in the complete listening experience and a product that the music lover is proud to own and display in their home. The second is a design faithful to the traditional Technics identity with no superficial elements. The product has been precisely designed to only include essential elements enabling the high level of performance required.

Integrating heritage and new innovations to create Technics’ core design values
The passion and detail that go into creating Technics products are not only confined to technological innovations. When it comes to design, the passion is preserved by focusing on a well-engineered body construction that components and enhances the technology inside. High-grade components are used for even the smallest elements such as the tactile, minimalist buttons. However, the past also meets the present to bring back a sense of analogue emotion with the switches and the sight of VU metres bouncing up and down. Furthermore, the dignified colours and form of the equipment will surely help to create a prestigious aura wherever it is placed. Technics has a proud and diverse heritage that we have used to establish a new form of design identity that we hope will be equally loved over the years. What type of presence should Technics have in the emotional act of listening to high-quality audio? Our new design will surely provide the answer at a single glance.

Chief Designer
Koji Mochizuki
Reference Class

R1 Series

Delivers superlative musical experiences by integrating Technics sound technologies
SE-R1
Stereo Power Amplifier

Sets a new high performance standard for digital amplifiers by employing state-of-the-art components and innovative technologies.
JENO Engine  (Jitter Elimination and Noise-shaping Optimisation)

Jitter is a major cause of distortion in digital systems, and is caused by a mis-timing in the cluster clocks used in digital-to-analogue converters. To eliminate the degradation of sound caused by jitter, Technics has developed an original jitter reduction circuit, comprising a clock generator in the noise-shaping system to reduce jitter at the low-frequency range and a high-frequency sample rate converter for suppressing jitter in the high-frequency range. Thus it reduces jitter in an ideal way over the entire frequency range.

This works with a newly-developed and original high-precision PWM (Pulse Width Modulation) generator in the noise-shaping system to reduce jitter in the low-frequency range and a high-precision sample rate converter for suppressing jitter in the high-frequency range.

In the speaker-driving section of the amplifier, Technics has employed a high-speed GaN (gallium nitride) FET driver device with super-low resistance. This enables the outstanding linearity regardless of the sound level.

LAPC  (Load Adaptive Phase Calibration)

The impedance of a speaker is not constant; it varies according to frequency, thus altering the loading on an amplifier and therefore potentially the sound. Technics is able to measure an amplifier’s frequency/amplitude/phase characteristics with speakers connected, and has developed a speaker impedance adaptive optimisation algorithm using digital signal processing to achieve ideal impulse response. Correction processing based on the new algorithm achieves a flat frequency response for both amplitude and phase, not possible in conventional amps, and delivering a sound with rich spatial expression.

Network audio player and pre-amp operate as one unit, sending digital audio data directly to the power amplifier in digital form. The power amp’s volume control function from the pre-amplifier, and instead transmits the volume control information, then performs the volume control immediately before the PWM converter. This new sound transmission interface, Technics Digital Link, supports audio signals and also enables low-noise effects by transmitting the left and right channel signals separately. Technics Digital Link has eliminated the volume control function from the pre-amp and therefore potentially the sound. Technics Digital Link goes further. It has eliminated the volume control function from the pre-amp and therefore potentially the sound.

Technics Digital Link  (Original Digital Signal Transmission)

Some systems use a digital link between source component and pre-amplifier, keeping the digital signal pure as long as possible. Technics Digital Link goes further than that: it eliminates the volume control function from the pre-amp and transmits the volume control information, together with the audio signal, directly to the power amplifier in digital form. The power amp’s volume control function reduces the effect of jitter in signal transmission, and performs the volume control immediately before the PWM converter. This new sound transmission interface, Technics Digital Link, supports audio signals and also enables low-noise effects by transmitting the left and right channel signals separately. Technics Digital Link has eliminated the volume control function from the pre-amp and therefore potentially the sound.
High-speed Silent Linear Power Supply

The accurate reproduction of everything from dynamic and powerful sounds to the low-level signals expressing delicate nuances requires a special power supply in an amplifier. It needs to be both powerful and low-noise, as well as capable of responding instantly to a continuously changing audio signal without any voltage fluctuation.

The power supply circuit of an ordinary amp consists of a large-capacity power transformer and a rectifier circuit: after examining ways to achieve ideal voltage and current waveforms, Technics decided to use a choke-input rectification, plus a discrete stabilised power supply circuit. These technologies incorporated in the power supply circuit enable the amp to drive the speakers powerfully under any conditions.

Battery Driven Clock Generator

The best power supply for delicate circuitry such as the clock generator in the new amplifier is one entirely isolated from any noise or fluctuations in the mains supply. Technics has extensive experience in circuits using battery isolation, having used them to create ultra-low-noise pre-amplifier stages in past analogue amplifiers.

Construction

Dual Mono Construction

The main amplifier layout separates the left and right channel signal paths completely, all the way back to the secondary winding on the power transformer, to prevent mutual interference and also achieve an ideal weight balance. This design gives optimal stereo separation, and also allows the two channels to be laid out in “mirror image”, giving equal signal path lengths for each channel.

Signal Path Minimisation

The length of the signal path is kept as short as possible to improve the signal to noise ratio, reduce potential sources of distortion and interference, and give the most direct communication of the music.

High-Quality Parts

Large, newly designed speaker terminals enable the connection of thick cables, and even the screws are high precision to ensure they remain tight, giving a firm and reliable cable connection. The insulators are cast iron for high rigidity and an excellent damping effect; this reduces both susceptibility to vibration, and the transmission of any vibration to external devices.

High Rigidity Metal Double Chassis

To support heavy parts and components and lower the centre of gravity for improved stability, the inner chassis of the SE-R1 is made of 3-mm-thick plate, but the amplifier uses a huge, and very heavy, mains transformer: to support this better and reduce vibrations, columns of die-cast aluminium are arranged at appropriate intervals between the bottom inner chassis and outer chassis. The external casing is made of a 7-mm-thick aluminium plate to resist the effect of electromagnetic noise.

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SU-R1
Network Audio Control Player
Minimises noise and achieves maximum silence, building on digital source reproduction technology and knowhow accumulated over many years.
Technics Digital Link

The SU-R1 Network Audio Control Player receives audio signals from various digital content devices, such as NAS, PCs, USB memory devices and digital interfaces. Many of these digital content storage systems were originally designed for use with PCs, so low noise—which is required for pure audio reproduction—was never a main design concern. To handle these often noisy sources, the SU-R1 installs noise isolation architecture for these media to exclude external electrical interference, and also employs a jitter remover, thus offering clear and stable sound, free from noise and distortion.

Technics Digital Link (Original Digital Signal Transmission)

Some systems use a digital link between source component and pre-amplifier, keeping the digital signal path as long as possible. Technics Digital Link goes further. It not only isolates the volume control function from the pre-amplifier, but instead transmits the volume control information, together with the audio signal, directly to the power amplifier in digital form. This greatly reduces the risk of noise, and also allows for a more flexible installation. To handle these often noisy sources, the SU-R1 installs noise isolation architecture for these media to exclude external electrical interference, and also employs a jitter remover, thus offering clear and stable sound, free from noise and distortion.

Digital Noise Isolation Architecture

The SU-R1 Network Audio Control Player removes audio signals from various digital content devices, such as NAS, PCs, USB memory devices and digital interfaces. Many of these digital content storage systems were originally designed for use with PCs, so low noise—which is required for pure audio reproduction—was never a main design concern. To handle these often noisy sources, the SU-R1 installs noise isolation architecture for these media to exclude external electrical interference, and also employs a jitter remover, thus offering clear and stable sound, free from noise and distortion.

Separated Analogue/Digital Power Supply

Dedicated low-noise R-core transformers* with excellent regulation characteristics are used for the analogue and digital circuits, and the power supply is further isolated to exclude any digital noise from the analogue circuits.

Separate Analogue/Digital Power Supply

Digital Noise Isolation Architecture

Ultra Low Distortion Oversampling Digital Filter

An oversampling digital filter, incorporating an original Technics algorithm, shifts digital noise to -160 dB or lower, thus moving any potential distortion far beyond hearing and leaving a rich, detailed sound.

Ultra Low Distortion Oversampling Digital Filter

Virtual Battery Operation

Virtual Battery Operation removes noise generated by the power supply circuit by using a capacitor to fulfill the function of a battery. During playback, this capacitor provides the power, taking the charging system out of circuit, and preventing supply noise from mixing into the audio signal.

Virtual Battery Operation

Separation Analogue/Digital Power Supply

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* R-core transformer is a trademark of Kitamura Kiden Co., Ltd.

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As an oversampling digital filter, incorporating an original Technics algorithm, shifts digital noise to -160 dB or lower, thus moving any potential distortion far beyond hearing and leaving a rich, detailed sound.
Burr-Brown PCM1792 Burr-Brown PCM4420 I / V Conversion, Analogue Output

Nonmagnetic Carbon Film Resistor

Power Supply Circuit Low-magnification Foil Electrolytic Capacitor, Aluminium Foil Capacitor, Large-capacity Capacitor

1 kHz / -90 dB / 16 bit

Input data Processed to 32 bit

Time

Frequency

Expanded Frequency

Expanded Bit

Amplitude

Input Signal

Generated from previous and next samples

Various Inputs

The pre-amp section supports a wide range of digital input — DLNA, USB memory devices, USB-DAC, SPDIF, AES/EBU — and two sets of analogue line signals. It converts analogue signals to 192-kHz/24-bit PCM signals using the high-precision A/D converter. The full-digital system achieves high-purity reproduction from any content. The USB-DAC supports 384-kHz/32-bit PCM, 2.8-MHz/5.6-MHz DSD native playback (analogue output) and asynchronous transmission. The digital input supports coaxial 192-kHz/24-bit PCM and optical 96-kHz/24-bit. For DLNA/USB memory device playback, DSD (2.8-MHz/5.6-MHz), WAV/AIFF/FLAC of up to 192 kHz 24 bits, and ALAC of up to 96 kHz 24 bits can be reproduced.

High-Quality Analogue I/O Circuit

The SU-R1 features Digital Noise Isolation Architecture, a high-precision clock generator and independent high-precision Burr-Brown PCM1792 (Texas Instruments) digital to analogue converters for left and right channels. The circuits after the D/A converter are of a balanced configuration, using non-magnetic foil resistors, low equivalent series resistance capacitors and a high-precision LM49720 (Texas Instruments) OP amp. Analogue inputs are converted to digital with the high-precision Burr-Brown PCM4220 (Texas Instruments) 192-kHz/24-bit A/D converter, allowing high-purity sound with digital and analogue sources alike.

High Res Re-master

Techno has developed signal processing to increase both sampling frequency and bit-depth; the high bits. The master system converts audio signals to high-resolution at up to 176/192 kHz 32 bits, bringing the listener closer to the original music.

Optimally Activated Circuit System

The Optimally Activated Circuit System allows the shutdown of various digital modules - such as those used for display, network, USB and digital interfaces - to minimize the noise generated when music is playing.

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SB-R1
Speaker System
Achieves a superlative level of sound reproduction, building on our linear-phase, point-sound-source concept.
Point-Sound-Source Speaker System

For soundstage focus and precise imaging, the wave-fronts from a speaker's drive units should ideally be aligned, arriving simultaneously at the listener's ears regardless of the listening position. In other words, the speaker system should appear to have only one point sound source.

The newly developed flat coaxial two-way speaker unit, combining midrange and treble drivers, works with a virtual co-axial woofer to realise a point sound source, providing smooth directional characteristics over the entire frequency range, without peaks or dips.

Phase Precision Driver (Flat Coaxial 2-Way Speaker Unit)

For faithful reproduction of midrange and high-frequency sound, Technics has developed an all-new flat coaxial two-way drive. The flat midrange diaphragm consists of a sandwich construction, using lightweight, high-rigidity carbon cloth skins and aluminium honeycomb core.

It maintains a perfect piston-like motion over a frequency band extending beyond the crossover point with the tweeter, while eliminating the frequency distortions caused by the 'cavity effect' in conventional cone diaphragms. The magnetic circuit employs a large magnet, copper cap, copper shorting ring and short voice coil with high-density edgewise winding to achieve high drive power and low distortion, while the speaker chassis is die-cast aluminium, with a resonance-dispersing structure to eliminate even the smallest unwanted vibration.

Ultra Wide Range Reproduction

Thanks to a carbon graphite dome tweeter mounted at the centre of the flat midrange drive unit, the SB-R1 is capable of reproducing frequencies all the way up to 100 kHz, ready to deliver the vast frequency spectrum offered by high-quality, high-resolution music sources.

High-Quality Network Circuit

The High-Quality Network Circuit was created as a result of extensive designing and listening, in order to maximise the performance of each speaker unit and achieve a balanced sound. To prevent interference between the drive units and minimise the effects of vibration, separate network boards for woofer, mid-range and tweeter are optimally arranged inside the cabinet.
Technics has developed a long-throw woofer capable of reproducing super-low frequencies with dramatically reduced distortion, giving powerful, dynamic and responsive bass. A push-pull edge (Symmetrical Surround Technology, SST) design cancels secondary harmonic distortion in the low-frequency range.

High Rigidity Round Form Cabinet

A 30-mm-thick baffle used in the cabinet supports the speaker units rigidly and suppresses undesirable resonances, while side panels comprising eight layers of MDF give the cabinet a curved form, suppressing unwanted vibration and reducing internal and external diffraction and reflection.

Internal partitions divide the cabinet into upper and lower sections, and eliminate low-order standing waves in the vertical direction. The choice of absorbent acoustic material and its position were optimized based on the frequency band of each drive unit as well as the cabinet volume, to further suppress standing waves inside the cabinet, and even the rings around each drive unit are made of a material with high internal loss to eliminate unwanted exciting from anywhere other than the speaker sound diaphragm.

The glossy finish on the cabinet is created through a series of processes including repeated coating, sanding, and polishing, the high degree of craftsmanship complementing the speakers' high-quality sound. The finish even suppresses fine vibrations generated on the cabinet surface, thus contributing to the accuracy of the sound.

Low Distortion 16-cm Long Stroke Woofer

A push-pull edge (Symmetrical Surround Technology, SST) design cancels secondary harmonic distortion in the low-frequency range.
Premium Class
C700 Series

Creates new value by adopting the product concept of the Reference Series
SU-C700
Stereo Integrated Amplifier

Employs innovative fully-digitalized processing that delivers a pure and accurate signal to the speakers.
**JENO Engine** (Jitter Elimination and Noise-shaping Optimisation)

Just like the R1, the SU-C700 is a fully-digital amplifier and delivers high-resolution digital signals without any distortion being introduced between the input stage and output to the speakers. Technics has developed an original jitter-reduction circuit, avoiding the sound quality degradation due to jitter common to conventional digital amps. It uses a clock generator for the noise-shaping system to reduce jitter in the low-frequency range and a high-precision sample rate converter to suppress jitter in the high-frequency range.

**LAPC** (Load Adaptive Phase Calibration)

Technics has developed a speaker impedance optimisation algorithm, using digital signal processing to flatten both the amplitude and phase-frequency response to make the most of your speakers. The result is a sound with better focus, spaciousness and definition.

**High-speed Silent Linear Power Supply**

Using a large-current Schottky-barrier diode, a rectifier circuit with electrolytic capacitors, and a stabilised power supply circuit, the SU-C700 ensures ample power supply at all times, even when dynamic music demands high current.

**Battery Driven Clock Generator**

Technics used battery power for low-noise applications in analogue amplifiers in the past: here, this same technology is used in the digital clock generation, enhancing the definition of the sound.

**Various Inputs**

The SU-C700 supports a wide range of inputs, such as SPDIF, Analogue and Phono, as well as USB-DAC for connection of a PC. The digital input terminal supports coaxial 192-kHz/24-bit PCM and optical 96-kHz/24-bit. The USB-DAC input terminal supports 192-kHz 32-bit PCM and 2.8-MHz/5.6-MHz DSD (native playback (analogue output) and asynchronous transmission). The SU-C700 converts analogue signals to high-precision 192-kHz/24-bit PCM signals using the A/D converter. The full-digital system achieves high-purity reproduction from any content.
ST-C700
Network Audio Player

Effectively removes noise to deliver a pure listening experience.
Just like the R1 series, the ST-C700 employs a jitter remover, a common mode filter for its LAN input, and a pulse transformer for its digital interface, thus improving the purity of its sound by blocking the entry of external noise.

Virtual Battery Operation
Virtual Battery Operation reduces noise generated by the power supply circuit by using the reference potential generating circuit for charging the capacitor.

Optimally Activated Circuit System
The Optimally Activated Circuit System shuts down unneeded digital modules, such as those for display, network, USB and digital interfaces, to minimize the noise generated during playback.

High Res Re-master
Technics High Res Re-master converts an audio source to a high-resolution signal of up to 192 kHz/32 bits, pushing the effects of any digital noise beyond the audible band, and allowing natural and expressive sound, closer to the original music.

Ultra Low Distortion Oversampling Digital Filter
The oversampling digital filter incorporating Technics’ original algorithm accurately removes the image to the -160 dB level or lower by using an oversampling digital filter, thus reproducing sound rich with spatial expression.

High-Quality Analogue Circuits
The ST-C700 uses Technics’ low-noise Digital Noise Isolation Architecture, a high-precision clock, and a high-precision D/A converter (Burr-Brown PCM1795). The analogue circuits use high-quality components for the purest possible sound.

Digital Noise Isolation Architecture
Just like the R1 series, the ST-C700 employs a jitter remover, a common mode filter for its LAN input, and a pulse transformer for its digital interface, thus improving the purity of its sound by blocking the entry of external noise.
SB-C700
Speaker System

Realises high transparency and a precise sound image, building on our linear-phase, point-sound-source concept.
Phase Precision Driver (Flat Coaxial 2-Way Speaker Unit)

The flat coaxial two-way speaker unit is an original Technics development, designed for the faithful reproduction of mid-range and high-frequency sounds. The flat driver diaphragm has a sandwich structure using lightweight, high-rigidity carbon fibre skins and a honeycomb core, and is designed for a highly accurate piston-like motion in the frequency range extending beyond the crossover frequency and the tweeter, without causing acoustic irregularities. The flat design eliminates the frequency anomalies caused by the cavity effect caused by conventional cone diaphragms, while the magnetic circuit employs a large magnetic circuit and short voice coil, for providing high power without interaction. The drive unit is in highly rigid die-cast aluminium, with the drive unit chassis having a resonance dispersing structure to eliminate unwanted vibrations, to help the drive unit deliver accurate and powerful bass.

High Rigidity Encasement Form Cabinet

The SB-C700 cabinet is designed to support the Point Source speaker units securely, preventing unwanted resonance, and ensuring a smooth flow of sound without diffraction or reflection. The front baffle is designed for maximum stiffness and resonance damping, while the side panels are convex high-rigidity boards with a maximum 42-mm thickness, designed to damp down resonance while also preventing internal reflections. The monocoque cabinet offers high rigidity, as each side of the cubic structure reinforces the adjacent panels. This reduces unwanted resonance by controlling the movement of the individual panels, as well as that of the entire structure. Internal acoustic absorbent material was selected, and its position optimised, to suit both a drive unit and the cabinet volume, thus suppressing undesired standing waves.

The bass reflex port on the rear panel is of a 'parabola' design, its curvature continuously varying from the inlet to the outlet to suppress turbulence at the exit as well as flow-noise within the port, thus delivering smooth and powerful bass sound with minimum noise. The glossy cabinet is created by repeated coating, sanding, polishing and finishing with a high degree of craftsmanship. This creates a cabinet not just attractive to look at, but also able to suppress fine vibrations generated at the enclosure surface, thus contributing to the accuracy of its sound.

High-Quality Network Circuit

The High-Quality Network Circuit was created as a result of extensive designing and listening, in order to maximise the performance of each speaker unit and achieve a balanced sound. To prevent interference between the drive units and minimise the effect of vibrations, separate network boards for woofer and tweeter are optimally arranged inside the cabinet.

Ultra Wide Range Reproduction

The Technics Speaker System is capable of reproducing sound over the ultra-wide frequency range of up to 100 kHz to deliver the vast frequency spectrum offered by high-quality, high-resolution music sources. The result is a faithful reproduction of audio signals with all nuances intact.
SL-C700
Compact Disc Player

Realises accurate and high-quality music reproduction, drawing out the full potential inherent in a music CD.
Ultra Low Distortion Oversampling Digital Filter
The oversampling digital filter uses Technics’ original algorithms to ensure the most accurate conversion of the digital signal.

High-Res Re-master
Technics High Res Re-master converts audio signals to up to 176.4 kHz/32 bits before digital-to-analog conversion, allowing a natural and expressive sound.

High-Precision Master Clock
A clock generated by high-precision crystal operates the CD reading, Audio DSP, and D/A converters to achieve highly precise digital synchronization, resulting in accurate playback. Independent high-precision Burr-Brown D/A converters (Texas Instruments) digital-to-analog converters are used for each channel.

High-Quality Analogue Circuit
A symmetrical analogue layout minimizes interference between the left and right channels, while keeping signal paths as short as possible to prevent signal loss during transmission.

High Rigidity Metal Double Chassis
To reduce vibrations and noise that degrade the purity of sound, the Premium Series features a High Rigidity Metal Double Chassis, using inner and outer steel plates.

Input data Processed to 32 bit
Time
Frequency
1 kHz / -90 dB / 16 bit
-160
-200
-240
-120
-80
-40
0
40
88.2k
22.05k
44.1k
66.15k

High-Quality Parts
The high-quality electrolytic capacitors and film capacitors used in the power supply and audio circuits were carefully selected through listening tests.

Technics Music App

for Smartphones
The Technics Music App makes it easy to select a music source and playback equipment, and more, playing music comfortably on the screen of a tablet or smartphone. The Music App screen displays the music list on a connected DLNA-compatible server, content stored on the device running the App, and music files on connected USB memory devices, giving you integrated playback control. Used with the SE-R1 or SU-C700, the Technics Music App not only allows you to control the volume and playback operations, but also lets you adjust the bass, mid and treble levels.

Main Features
- Simple and intuitive Menu
- DLNA Playback
- USB Memory Playback
- Multi Device Playlist Functions*1
- Bass / Mid / Treble Control on Technics Products*2
*1 Unable to include USB memory as multi device playlist.
*2 Will not function when using Bluetooth® as a music source.

1x playback
To minimize the noise generated by the mechanisms and motors, the disc is played back at 1x speed, minimizing audio affecting power supply fluctuations.

Compatible Models

Technics Music App
Specifications

01. Speaker terminals
02. Analogue input terminals (Unbalanced)
03. Analogue input terminals (Balanced)
04. Technics Digital Link input terminals
05. AC IN terminal

Technics Definitive Design

Output Power
150 W + 150 W (1 kHz, T.H.D. 0.5%, 8 Ω, 20 kHz LPF)
300 W + 300 W (1 kHz, T.H.D. 0.5%, 4 Ω, 20 kHz LPF)

Input Sensitivity / Input Impedance
UNBALANCED 1.2 V / 47 kΩ, BALANCED 1.2 V / 47 kΩ

Frequency Response
1 Hz - 90 kHz (-3 dB, 8 Ω)

THD+N
0.05% (1 kHz, 75 W, 8 Ω, 20 kHz LPF)

Load Impedance
A or B, Bi-wiring: 4-16 Ω, A + B: 8-16 Ω

Analogue Input Terminal
UNBALANCED x 1, BALANCED x 1

Digital Input Terminal
Technics Digital Link x 1

Power Supply
AC220-240 V, 50 Hz/60 Hz

Power Consumption
210 W

Dimensions (W x H x D)
480 x 241 x 567 mm

Weight
Approx. 54 kg

Accessories
AC Cords, Operating Instructions
**SU-R1**

**Network Audio Control Player**

- **Speaker System**
  - **Technics Digital Link**: x 1,
  - **AES/EBU Digital**: x 1,
  - **Coaxial Digital**: x 1,
  - **Optical Digital**: x 1

- **LAN (100 Base-TX /10 Base-T)**: Yes

- **AC220-240 V, 50 Hz / 60 Hz**: 60 W

- **Dimensions (W x H x D)**: 600 x 120 x 391 mm

- **Weight**: Approx. 17 kg

- **Accessories**:
  - Remote Control
  - AC Cords
  - Operating Instructions

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**Point-Sound-Source Speaker System**

- **Ultra Wide Range Reproduction**
- **Phase Precision Driver (Coaxial Flat 2-way Speaker Unit)**
- **Low Distortion 16-cm Long Stroke Woofer**
- **High-Quality Network Circuit**
- **High Rigidity Round Form Cabinet**

- **Frequency Response**:
  - 300 Hz, 3 kHz
  - 20 Hz - 100 kHz (-16 dB), 28 Hz - 90 kHz (-10 dB)

- **Sound Pressure Level**: 88 dB / 2.83 V (m)

- **Impedance**: 4 Ω

- **Input Power (IEC)**: 150 W (Rated), 300 W (Max)

- **Dimensions (W x H x D)**: 408 x 1260 x 522 mm (including net and terminals)

- **Weight**: Approx. 72 kg (/pc)

- **Accessories**:
  - Spike x 4
  - Spike Support x 4
  - Short Cable x 2
  - Cleaning Cloth x 1
  - Spacer x 4
  - Operating Instructions

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**Emotive Acoustic Technology**

- **Technics Definitive Design**

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**Type**

- **Speaker Units**:
  - **Woofer**: 16 cm Cone type x 4
  - **Mid-Range/Tweeter**: Coaxial, 16 cm Flat type x 1 / 2.5 cm Dome type x 1

---

**Connectors**

- **USB terminal (USB-A)**
- **Headphone output terminal**
- **Analogue output terminals (Unbalanced)**
- **Analogue input terminals (LINE1)**
- **Analogue input terminals (LINE2)**
- **Technics Digital Link output terminals**
- **Analogue output terminals (Balanced)**
- **AES / EBU digital output terminal**
- **Coaxial digital output terminal**
- **Optical digital output terminal**
- **AES / EBU digital input terminal**
- **Coaxial digital input terminals**
- **Optical digital input terminal**
- **LAN terminal**
- **USB terminal (USB-B)**
- **AC IN terminal**
### STC700 Stereo Integrated Amplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Power</strong></td>
<td>45 W + 45 W (1 kHz, T.H.D. 0.3%, 8 Ω, 20 kHz LPF)</td>
</tr>
<tr>
<td><strong>Input Sensitivity / Input Impedance</strong></td>
<td>LINE 200 mV / 22 kΩ, PHONO (MM) 2.5 mV/47 kΩ</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>LINE 20 Hz - 80 kHz (-3 dB, 8 Ω), PHONO (MM) 20 Hz - 20 kHz (RIAA DEVIATION ±1 dB, 8 Ω), Coaxial1/2/3 20 Hz - 90 kHz (-3 dB, 8 Ω)</td>
</tr>
<tr>
<td><strong>USB-DAC (USB-B)</strong></td>
<td>Yes (2.8224 MHz, 5.6448 MHz)</td>
</tr>
<tr>
<td><strong>Load Impedance</strong></td>
<td>Yes (32, 44.1, 48, 88.2, 96, 176.4, 192 kHz / 16, 24, 32 bit)</td>
</tr>
<tr>
<td><strong>Analogue Input Terminal</strong></td>
<td>System Control Input/Output (    3.5 mm Jack)</td>
</tr>
<tr>
<td><strong>Digital Input Terminal</strong></td>
<td>USB-A, USB-B, Optical Digital, Coaxial Digital x 1, 2, 3</td>
</tr>
<tr>
<td><strong>Headphone Output</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>System Port</strong></td>
<td>System Control Input/Output (    3.5 mm Jack)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC220-240 V, 50 Hz/60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>26 W</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>340 x 132 x 325 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 4.0 kg</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Remote Control, AC Cord, Coaxial Digital Cable, Control Cable, Operating Instructions</td>
</tr>
</tbody>
</table>

### STC700 Network Audio Player

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Support Codec</strong></td>
<td>WAV, FLAC, DSD, AIFF, ALAC, AAC, WMA, MP3, DSD, PCM</td>
</tr>
<tr>
<td><strong>USB Audio Class Specification</strong></td>
<td>USB Audio Class 2.0, Asynchronous Mode</td>
</tr>
<tr>
<td><strong>Load Adaptive Phase Calibration</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>High-speed Silent Linear Power Supply</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Battery Driven Clock Generator</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>High Rigidity Metal Double Chassis</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>JENO Engine</strong></td>
<td>(Jitter Elimination and Noise-shaping Optimisation)</td>
</tr>
<tr>
<td><strong>Load Impedance</strong></td>
<td>Yes (2.8224 MHz, 5.6448 MHz)</td>
</tr>
<tr>
<td><strong>Analogue Input Terminal</strong></td>
<td>Yes (32, 44.1, 48, 88.2, 96, 176.4, 192 kHz / 16, 24, 32 bit)</td>
</tr>
<tr>
<td><strong>Digital Input Terminal</strong></td>
<td>Yes (32, 44.1, 48, 88.2, 96, 176.4, 192 kHz / 16, 24 bit)</td>
</tr>
<tr>
<td><strong>Headphone Output</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>System Port</strong></td>
<td>System Control Input/Output (    3.5 mm Jack)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC220-240 V, 50 Hz/60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>73 W</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>340 x 78 x 305 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 8.3 kg</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Remote Control, AC Cord, Operating Instructions</td>
</tr>
</tbody>
</table>

### Reference

1. Analogue output terminal
2. Analogue input terminals (Phono)
3. Analogue input terminals (LINE)
4. Speaker terminals
5. AC IN terminal
6. USB terminal (USB-A)
7. Optical digital output terminal
8. Coaxial digital output terminal
9. LAN terminal
10. System Control terminal
11. iPod/iPhone/iPad

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**Noiseless Signal Technology**

**Technics Definitive Design**

**Output Power**

**Input Sensitivity / Input Impedance**

**Frequency Response**

**Dynamic Range (IHF-A)**

**Signal to Noise Ratio (IHF-A)**

**THD+N**

**Digital Input Terminal**

**USB-A, USB-B**

**DLNA Support Codec**

**Analogue Output Terminal**

**Digital Output Terminal**

**Ethernet Interface**

**System Port**

**AirPlay**

**Bluetooth® (Support codec)**

**NFC (Near Field Communication)**

**Tuner**

---

**Power Supply**

**Power Consumption**

**Dimensions (W x H x D)**

**Weight**

**Accessories**

Remote Control, AC Cord, Coaxial Digital Cable, Control Cable, Operating Instructions
<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compact Disc Player</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SB-C700 Speaker System</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Noiseless Signal Technology</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Technics Definitive Design</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Disc Compatibility</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>2 Hz~20 kHz (-0.5 dB)</td>
</tr>
<tr>
<td><strong>Dynamic Range (IHF-A)</strong></td>
<td>100 dB</td>
</tr>
<tr>
<td><strong>Signal to Noise Ratio (IHF-A)</strong></td>
<td>117 dB</td>
</tr>
<tr>
<td><strong>THD+N</strong></td>
<td>0.0018% (1 kHz, 0 dB)</td>
</tr>
<tr>
<td><strong>Analogue Output Terminal</strong></td>
<td>LINE x 1</td>
</tr>
<tr>
<td><strong>Digital Output Terminal</strong></td>
<td>Coaxial Digital x 1, Optical Digital x 1</td>
</tr>
<tr>
<td><strong>System Port</strong></td>
<td>System Control Input/Output (3.5 mm Jack)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC220-240 V, 50 Hz/60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>10 W</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>340 x 78 x 295 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 5.2 kg</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Coaxial Digital Cable, Control Cable, AC Cords, Operating Instructions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ultra Low Distortion Oversampling Digital Filter</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High Res Re-master</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High Precision Clock Synchronisation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>L/R Independent High Precision DAC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High-Quality Analogue Circuit</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High Rigidity Metal Double Chassis</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High Rigidity Aluminium Cabinet</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Touch Switch Control</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Symmetric Structure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Audio CD, CD-R/CD-RW (CD-DA/MP3/WMA, Discs recorded and finalised on recording devices)</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Feature</th>
<th>Information</th>
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<tr>
<td><strong>Point-Sound-Source Speaker System</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ultra Wide Range Reproduction</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Phase Precision Driver (Coaxial Flat 2-way Speaker Unit)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High-Quality Network Circuit</strong></td>
<td></td>
</tr>
<tr>
<td><strong>High Rigidity Entasis Form Cabinet</strong></td>
<td></td>
</tr>
<tr>
<td><strong>White High Gloss Finish</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Entasis Form Enclosure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Magnet Fixed Fabric Grille</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Coaxial 2-way 2 Speaker Bass Reflex</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2.5 kHz</strong></td>
<td></td>
</tr>
<tr>
<td><strong>40 Hz - 100 kHz (-16 dB), 45 Hz - 80 kHz (-10 dB)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>85 dB / 2.83 V (m)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>4 Ω</strong></td>
<td></td>
</tr>
<tr>
<td><strong>50 W (Rated), 100 W (Max)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>220 x 336 x 286 mm (including net and terminals)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 8.5 kg (/pc)</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Speaker Cable (1.2 m) x 2 *1, Operating Instructions</td>
</tr>
</tbody>
</table>

*1 Length of the speaker cable may not be sufficient on your placement. Please prepare suitable cable based on your installation requirements.
Listening to music must be an experience.

Embrace the new era of lossless audio and stir your emotions with sound the way it was intended to be heard.

Let Technics take you on your journey to rediscover music.