

# Technics



hi-fi



# Technics

## Listen to the Technics Difference in Digital Audio Technology

Technics has always sought the goal of faithful music reproduction.

The final judgment on sound quality comes not on the test bench but in the listening room. Therefore, Technics comes to grips with the sonic details that don't show up in specifications. In amplifiers, the Class AA amp circuit overcomes one of the biggest problems in music reproduction - the influence of speaker load impedance on amplifier output fidelity. The 4-DAC 18-Bit High Resolution System retrieves the musical nuances that are too often missing from digital audio - lingering details of piano notes, concert hall ambience, and violin overtones, to list a few examples.

Technics CD players also employ the 4-DAC 18-Bit High Resolution System, together with a 4-times oversampling digital filter, digital optical link, Class AA circuitry, High-Speed Linear Motor Access System, and more... the state-of-the-art in CD player technology.

Today's digital sources offer us such a great improvement. At Technics we are working to bring out the full potential of these sources. Listen, and you too will hear the Technics difference.

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In Technics pursuit of musical perfection a family of digital products has evolved utilising Technics original 4 DAC 18 Bit High Resolution technology.

To reproduce music with total accuracy requires perfect reproduction of subtle, low level detail conveying the character of the musical instruments, the ambience of the



# Technics 4 DAC 18 BIT Technics 4 DAC 18 BIT Te

concert hall and the information necessary to build up a three dimensional stereo image in your listening room.

Technics CD players are able to extract the very finest detail from a Compact Disc using the 4 DAC 18 bit High Resolution system in the Digital to Analogue converters and present a musical picture complete in virtually

every detail.

Remarkably the musical experience can be heightened still further by using one of Technics' new Amplifiers, again with the 4 DAC 18 bit High Resolution system - separating the sensitive D/A converter from the CD player with a Digital Optical Link to ensure maximum fidelity and the most beautiful music.





## SEPARATES

Technics' art of reproducing music from Compact Disc has taken one huge leap forward.



Widely acknowledged for the convenience and reliability of CD player mechanisms employing Direct Drive spindle motors and high speed linear motor tracking systems, Technics now introduces the 4 DAC 18 Bit High Resolution System.

In order to recreate the original music complete in all its subtle detail of instrumental character and texture, the ambience of the original recording as well as a perfect stereo image requires the CD player to have a resolution greater than that of the original 16 bit disc. Technics use a four times oversampling digital filter

to recreate every musical nuance and then use an original arrangement of no less than four D/A converters to process the D/A conversion with no less than 18 bits of resolution and to eliminate totally Digital Zero cross distortion. Perfect operation of the 4 DAC 18 bit High Resolution systems is assured by the Class AA sample and hold circuitry. Class AA is also used in many Technics players in the buffer stages - a circuit configuration which preserves with unflinching precision the music recreated so perfectly using the 4 DAC 18 bit High Resolution System.

### SL-P1200 Professional CD Player

- Class AA circuitry for fine musical detail.
- Anti-resonant Tri-Layer base construction with damping rubber, metal chassis and TNRC.
- 2-speed search dial enables precise access.
- High resolution digital filter for clear sound reproduction.
- $\pm 8\%$  Long-stroke pitch control.
- Separate digital/analog power supply.
- Infra-red remote control with volume control capability.
- Multi-function FL display with Music Matrix.

Built to satisfy professional requirements in terms of absolute sound quality and operational versatility the SLP1200 is already in use in many demanding situations in the UK - being used by the BBC for broadcast, record companies for quality assessment as well as many studios and discotheques.

class AA



SL-P990



SL-P1200



SL-P770

### SL-P990 Programmable Compact Disc Player

- 4-DAC 18-Bit High Resolution System.
- Class AA circuitry for improved sound quality.
- Multi-layer base, 3-layer top, and double insulators assure resistance against vibrations and resonances.
- Optical and coaxial digital outputs for direct connection to Digital amps.
- Independent power supply transformers for analogue and digital sections, and low noise, high stability Active Servo Power Supply for analogue section.
- Auto Peak Search finds and plays the portion of a CD having the highest level.
- Two-speed search dial and 20-key number pad simplify operation.
- 41 keys wireless remote control.
- 32-selection random access programming.

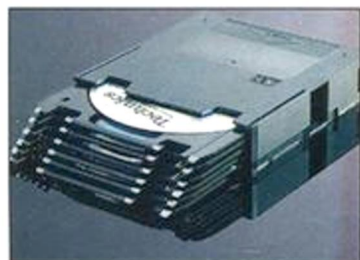
4 DAC 18 BIT class AA



SL-P600C



SL-P550



### SL-P770 Programmable Compact Disc Player

- 4-DAC 18-Bit High Resolution System. ■ Class AA circuitry improves sound quality. ■ Multi-layer base, 3-layer top, and floating optical deck structure assure resistance against vibrations and resonances. ■ Optical and coaxial digital outputs allow direct connection to Digital amps. ■ Low noise Active Servo Power Supply minimizes noise. ■ Auto Peak Search function finds and plays the portion of a CD having the highest level. ■ Two-speed search dial and 20-key number pad enhance operational convenience. ■ 41 keys wireless remote control.

4-DAC 18BIT 

### SL-P600C Multi Compact Disc Player

- Automatic CD changer with 6-disc magazine. ■ High Resolution Digital filter with quadruple oversampling at 176.4kHz ■ Self-illuminating disc selection

- switches with 2-colour LEDs. ■ 36-selection random access programming with 10-key control panel. ■ Multi-function 2-colour FL display with Music Matrix. ■ Random Play. ■ 23 key wireless remote control.

### SL-P550 Programmable Compact Disc Player

- 18-bit quadruple oversampling digital filter with 2-DAC 18-Bit resolution improves low-level signal fidelity. ■ Class AA circuitry improves sound quality. ■ Coaxial digital output allows direct connection to Digital amps. ■ Auto Peak Search function finds and plays the portion of a CD having the highest level. ■ Large FL display with digital peak level meter. ■ 32-selection random access programming. ■ Direct access system by 10-key pad. ■ 27 keys wireless remote control. ■ Black (K) and silver (S) finishes available.

2-DAC 18BIT 



SL-P350



SL-P350



SL-P250



SL-P200

### SL-P350 Programmable Compact Disc Player

- Quadruple oversampling digital filter and 2-DAC improve low-level signal fidelity. ■ Coaxial digital output allows direct connection to Digital amps.
- Auto Peak Search function finds and plays the portion of CD having the highest level. ■ Large FL display with digital peak level meter. ■ 32-selection random access programming. ■ Direct access system by 10-key pad.
- Random Play function by remote control. ■ Black (K) and Silver (S) finishes.

### SL-P250 Programmable Compact Disc Player

- Quadruple oversampling digital filter and 2-DAC bring superb sound.
- 20-selection random access programming with 10 keys on the front panel or remote control. ■ Wireless remote control. ■ Multi-function 2-colour FL display with Music Matrix. ■ Preset Editing function. ■ Random Play function by remote control. ■ High Speed Linear Motor Access System.

### SL-P200 Programmable Compact Disc Player

- Quadruple oversampling digital filter and 2-DAC bring superb sound.
- 20-selection random access programming. ■ Multi-function 2-colour FL display with Music Matrix. ■ Preset Editing function. ■ High Speed Linear Motor Access System. ■ High Resolution Laser Pickup for excellent tracking performance. ■ Wireless remote control operation when connected to selected Technics hifi systems.

### SL-PJ45 360mm Wide Programmable Compact Disc Player

- Quadruple oversampling digital filter and 2-DAC bring superb sound.
- 20-selection random access programming with 10 keys on the front panel or remote control. ■ Infra-red remote control. ■ Multi-function 2-colour FL display with Music Matrix. ■ Auto CD Editing function. ■ Digital Optical Output. ■ Designed to match Technics 360 systems.



SL-PJ45



SL-PJ25



SHCD C7 Car battery adaptor for SL-XP5



SL-PJ20



SL-XP5



SU/SB-CD50



## SL-PJ25 360mm Wide Programmable Compact Disc Player

- Quadruple oversampling digital filter and L/R separated 2-DAC bring superb sound.
- 20-selection random access programming.
- Remote control possible in conjunction with Technics 360 systems.
- Multi-function 2-colour FL display.
- Preset Editing function.
- High Speed Linear Motor Access System.
- Designed to match Technics 360 systems.



## SL-PJ20 Compact Disc Player

- High speed linear motor access.
- 20 step programmable.
- Remote control terminal (when linked to suitable Technics systems).
- Matches Technics 315 Midi Systems.



## SU-CD50/SB-CD50 Stereo Integrated Amplifier and 2-Way Speaker System

- 30 watts per channel (DIN).
- Remote control of all functions.
- Adds remote control to SLXP5 portable CD.
- Inputs for CD player, tape, aux.
- 2-way speakers - 60W music power handling.

## SL-XP5 Portable Compact Disc Player

- Only slightly larger than two CD cases - 22.9mm x 126mm x 126mm.
- 5 hour portable operated from rechargeable battery.
- 18 step programmable.

For portable use the SLXP5 headphone output has plenty of power and even a switchable high cut filter to soften the sound. With a hifi system the connectors supplied ensure compatibility with all CD inputs and the SLXP5 even becomes remote controlled when used with Technics remote control systems or the SU-CD50 amplifier.

## SEPARATES

## The perfect combination for digital sources: Class AA and 4-DAC 18-Bit High Resolution System.

### Digital Amp and Optical Link System

Technics digital amps have built-in DACs to accept digital data directly from CD players that have digital outputs. Broad compatibility is assured by optical and coaxial digital input terminals. This kind of connection

minimizes the length of the analogue signal path, thereby maximizing fidelity. The optical link gives virtually total protection from electrical noise and interference.



### 4-DAC 18-Bit High Resolution System

The 4-DAC 18-Bit High Resolution System incorporated in Technics digital amps has two digital-to-analogue converters in each channel to process the plus and minus halves of the signal separately. This design achieves high purity digital-to-analogue conversion without any zero cross distortion. It also operates in

the high resolution 18-bit mode when converting signals of less than -12dB amplitude. Together with the 266th order 4-times oversampling digital filter, these innovations dramatically improve reproduction of small signal components which carry so much important musical detail.

### High-Speed EX Capacitors

Conventional capacitor electrolytes contain impurities that spoil the sound. But a new high-speed low-distortion capacitor electrolyte, created with biotechnology, lets us

achieve greater clarity in the mid and high ranges. Improved electrodes and separator construction contribute to greater solidity in the low range sound.

### Class AA VC-4 Amplification

This prevents speaker load impedance from affecting the accuracy of voltage amplifier operation. High power and low

distortion result from this Class AA design using four amplifier circuits - one for voltage and one for current on each channel.

### SU-A60 Digital Control Amplifier

Built-in D/A converter - ready for direct digital input. ■ 4-DAC 18-Bit High Resolution System. This D/A conversion system completely eliminates digital zero crossover distortion and features high resolution 18-bit conversion for accurate reproduction of low level digital input signals. ■ Digital input/output facilities: Coaxial (1) and optical (2) inputs for CD players and DAT decks; two pairs of coaxial and optical (switchable) rec out and playback connections for DAT decks. ■ 'Direct out' selector allows direct routing of digital inputs and 'analogue direct' inputs to the power amp with only an intermediary volume control. ■ Three input sampling frequencies (32kHz, 44.1kHz, 48kHz). ■ PCL 4-ganged volume control for wide dynamic range.

4 DAC 18 BIT

### SE-A50 Stereo Power Amplifier

Digital audio purpose power amp intended to match the SU-A60 control amp. ■ Technics high performance Class AA VC-4 amplification provides high output (115W x2 RMS 20Hz-20kHz) with ultra-low distortion of 0.0005% (1kHz, 8Ω). Thanks to Class AA VC-4 amplification, the SE-A50 handles speaker load impedance fluctuations effortlessly while maintaining high fidelity in terms of wide dynamic range, low distortion and accurate sound stage imaging. ■ Twin Mono Construction. Isolated left and right channel circuits assure virtually complete channel separation and freedom from crosstalk, using separate high capacity transformers with precision series windings. ■ High speed EX capacitors with high purity biotechnology electrolyte. ■ BTL (mono) operation capability increases amplifier power to 300W (20Hz-20kHz 8Ω).

class AA

### SU-V90D Digital Integrated Amplifier

Built-in D/A converter - ready for direct digital input. ■ 4-DAC 18 Bit High Resolution System. This D/A conversion system completely eliminates digital zero crossover distortion and features high resolution 18-bit conversion for super accurate reproduction of low level digital input signals. ■ Power amplifier section employs Technics Class AA VC-4 circuitry for extremely low distortion of 0.0007% (1kHz, 8Ω) and high output of 100W x 2 (RMS 20Hz-20kHz). ■ 'Power amp direct' system allows direct routing of digital inputs and 'analogue direct' inputs to the power amp circuitry with only an intermediary volume control. ■ Three input sampling frequencies (32kHz, 44.1kHz, 48kHz) assure compatibility with all major digital source standards. ■ Optical and coaxial digital inputs.

4 DAC 18 BIT class AA

### SU-V650 Stereo Integrated Amplifier

■ Class AA amp circuit for extra clean power 90W x 2 (RMS 20Hz-20kHz). The Technics innovation, Class AA, stabilizes speaker drive while delivering high power with low distortion of 0.0009% (1kHz, 8Ω). ■ Heavy duty power supply. For effortless handling of peak transients, the SU-V650 is equipped with an oversized OFC transformer, large EX capacitors and high linearity power transistors. ■ 6-position multiple input facilities. The SU-V650 handles six audio inputs: phono, tuner, CD, aux, tape 2/ext, tape 1/DAT. ■ 'Direct Switching' for CD input. ■ Ultra-quiet phono EQ with MM/MC cartridge input and FET ICL construction.

class AA



SU-V90D



SU-A60



SE-A50



SU-V650

SEPARATES



SU-V550



SU-600



SU-600

SU-V550 Stereo Integrated Amplifier

- Technics Class AA amplification delivers high power of 65W (RMS 20Hz-20kHz) with low distortion of 0.0009% at full power (1kHz 8Ω).
- Heavy duty power supply. For effortless handling of peak transients, the SU-V550 is equipped with an oversize transformer, large EX capacitors, and high linearity power transistors.
- 6-position multiple input facilities
- High Speed EX capacitors with high-purity electrolyte.
- 'Direct Switching' for CD input.
- Phono selector (MM/MC).



SU-V450 Stereo Integrated Amplifier

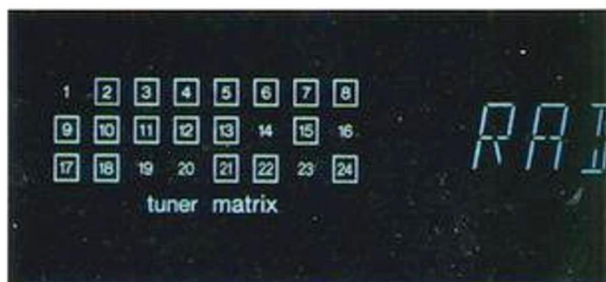
- Class AA amp circuit for extra clean power output of 50W x 2 (RMS 20Hz-20kHz) Technics Class AA amplification delivers low distortion of 0.0009% at full power (1kHz 8Ω).
- Heavy duty power supply. For effortless handling of peak transients, the SU-V450 is equipped with an oversize transformer, large electrolytic capacitors, and high linearity power transistors.
- 6-position multiple input facilities
- High Speed EX capacitors with high-purity electrolyte.
- 'Direct Switching' bypasses input selector to provide highest signal purity from Compact Discs.
- Black (K) and Silver (S) finishes available.



SA-R230L

SA-R230L Quartz Synthesizer 3 Band Remote Control Stereo Receiver

- 32-key wireless remote control.
- 50W x 2 output power (DIN, 8Ω).
- Quartz synthesizer digital tuning with 24-channel random access preset memory.
- Station grouping feature: Station File lets you divide the 24 preset stations into five groups or files, each designated by any name you choose (up to 5 letters). The title name is shown on the FL display and the station numbers in that file are shown on the Tuner Matrix.
- 5-band graphic equalizer.
- Remote-controllable rotary type volume with level indicator.
- 4 audio inputs.
- Available from October 1988.





SU-V450



SU-V450



SU-800

### SU-800 Stereo Integrated Amplifier

- New Class A circuitry for clear, undistorted sound
- 40W x 2 output power (RMS 20Hz-20kHz)
- Light-touch input selectors include phono, tuner, and CD/aux, tape 1 and tape 2
- Quiet phono EQ circuitry
- Two tape monitors with editing capability
- Main and/or remote speaker selection
- Heavy-duty aluminium front panel

new class A

### SU-600 Stereo Integrated Amplifier

- New Class A circuitry for clear, undistorted sound
- 30W x 2 output power (RMS 20Hz-20kHz)
- Light-touch input selectors include phono, tuner, CD/aux, and tape
- Quiet phono EQ circuitry
- Main and/or remote speaker selection
- Heavy-duty aluminium front panel
- Black (K) and Silver (S) finishes available.

new class A



SA-160L

### SA-160L Quartz Synthesizer 3 Band Stereo Receiver

- 40W x 2 output power (DIN, 8Ω)
- Quartz synthesizer digital tuning with 24-channel random access preset memory
- Station grouping feature: Station File lets you divide the 24 preset stations into five groups or files, each designated by any name you choose (up to 5 letters). The file name is shown on the FL display and the station numbers in that file are shown on the Tuner Matrix
- 5-band graphic equalizer
- Available from September 1988.

QUARTZ





## SEPARATES

Technics tuners put digital ready technology to work, bringing you the best in sound quality and convenience.

### Twin RF & IF Construction

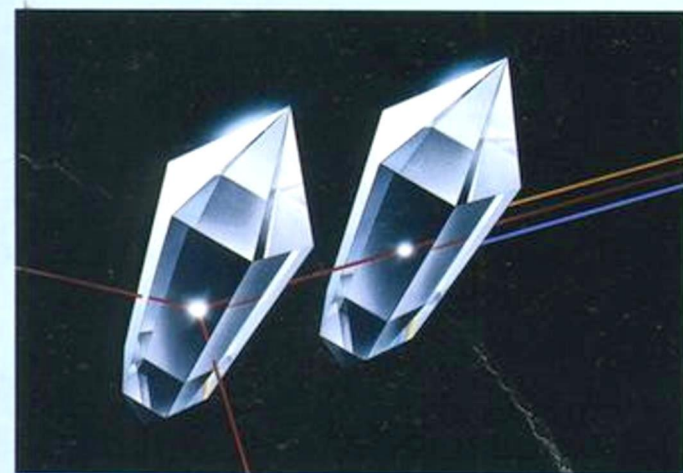
FM reception conditions in the UK will become increasingly difficult as new legislation encourages more local radio transmissions. Twin RF and IF Construction helps counter these difficulties. When an antenna signal enters a tuner, the first circuit it sees is the RF (radio frequency) stage. Now, Twin RF offers a choice of filter bandwidths: super narrow (to reduce ghost images) or normal.

In the IF (intermediate frequency) stage too, the tuner

can now select a super narrow filter to improve selectivity and reduce interference, or a normal filter to maximize sound quality.

Switching is completely automatic. The tuner automatically searches for signals that may cause reception difficulties and selects the appropriate RF and IF selectivity - which can be either called up manually or automatically held in memory alongside the channel frequency.

### DC Twin-Quartz Circuitry



Quartz crystal oscillators assure rock solid accuracy. One quartz reference stabilizes the front-end where tuning takes place. Another is used in the MPX stage where the signal is decoded into left and right stereo channels. This

maintains consistent performance despite environmental factors. With DC construction, it raises waveform fidelity while keeping frequency response linear down to 4Hz in the subsonic bass region.

### RP-3800E

Optional test mic for SH-8066K and SH-8055K equalisers.



ST-G90L



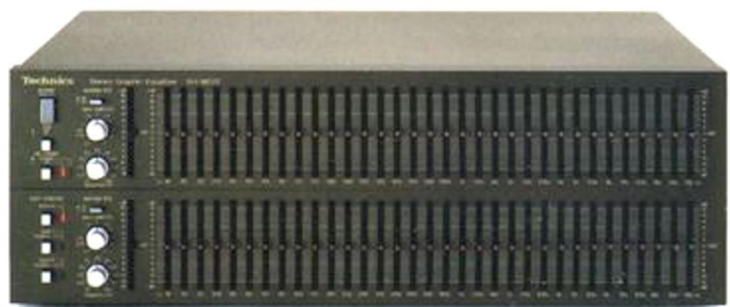
ST-G70L

### ST-G70L Quartz Synthesizer 3 Band Stereo Tuner

- Twin RF & IF circuit construction enables automatic selection of normal and super-narrow bandwidth at the RF and IF stages, resulting in dramatic improvement of reception characteristics.
- 3 Band 39-channel random access preset memory.
- DC Twin-Quartz circuitry enhances reception and stability.
- Class AA output amp circuitry for best fidelity.
- DC Linear Switching MPX reduces distortion and expands dynamic range.
- Multi-function FL display.
- Easy-to-operate rotary encode tuning knob.

AA QUARTZ

## ERS Technics EQUALISERS



SH-8075



SH-8066



SH-8058



### ST-G90L Quartz Synthesizer 3 Band Stereo Tuner

- Twin RF & IF circuit construction enables automatic selection of normal and super-narrow bandwidth at the RF and IF stages, resulting in dramatic improvement of reception characteristics.
- 3 Band 39-channel random access preset memory lets you preset up to 39 stations in any combination of AM and FM. Simply press the number keys to recall the preset of your choice.
- DC Twin-Quartz circuitry enhances reception and stability.
- Class AA output circuitry for best fidelity.
- DC Linear Switching MPX reduces distortion and expands dynamic range.
- Multi-function FL display.
- Easy-to-operate rotary encode tuning knob.
- Quartz signal calibrator for recording level setting.

class AA QUARTZ



ST-G450L

### ST-G450L Quartz Synthesizer 3 Band Stereo Tuner

- Class AA output amp circuitry for best fidelity.
- Technics quartz synthesizer digital tuning uses an unwavering quartz crystal reference to prevent drift while promoting astounding accuracy and convenience.
- Traditional Technics DC construction enhances waveform fidelity while extending flat frequency response all the way down to 4Hz.
- 3 Band 24-channel random access preset memory.
- Large FL display.

class AA QUARTZ



ST-600L

### ST600L Quartz Synthesizer 3 Band Stereo Tuner

- Quartz synthesizer digital tuning for accuracy and convenience.
- 3 Band 24-channel random access preset memory lets you preset up to 24 stations in any combination of AM and FM.
- Large FL display alerts you to the FM/AM frequency, preset channel number and stereo reception.
- Auto-scan tuning.
- 3 point LED signal strength meter.
- Heavy-duty aluminum front panel.
- Black (K) and Silver (S) finishes.

QUARTZ



SH-8055

### SH-8075 Professional Third Octave Stereo Equaliser

- 33 band  $\frac{1}{3}$  octave design 16Hz~25kHz.
- Constant Q maintains filter steepness at all settings.
- Variable 20~400Hz additional parametric equaliser to compensate for room standing waves.
- Equalisation  $\pm 12$ dB.
- Record EQ allows equalised sound to pass straight to a recorder.
- Facilities for two recordings with EQ between.

### SH-8066 Stereo Touch Sensitive Equaliser

- 12 band  $\pm 12$ dB equalisation.
- Technics original touch control pad allows the required EQ to be drawn by hand for each channel.
- 8 preset EQ curves can be memorised. Two curves can also be recalled and added together.
- Built in dual real time spectrum analyser and EQ display.
- Using optional RP3800E test mic automatic room equalisation is possible.

### SH-8058 Electronic Stereo Graphic Equaliser

- The SH-8058 lets you boost or attenuate up to 12dB (in steps of 2dB) in seven bands across the audio spectrum.
- Electronic up/down keys make setting easy - simply watch the FL display as you key in the desired curve.
- 6-preset EQ curve memory includes 3 factory presets (rock, jazz, vocal).
- Dual spectrum analyzers/EQ curve displays for L/R channels.
- Also available in Silver from October 1988 (model No. SH-8058S)



SH-8045

### SH-8055 Stereo Equaliser

- 12 band  $\pm 12$ dB equalisation.
- Built in real time spectrum analyser and pink noise generator to assist adjustment using optional RP3800E test mic.
- Left/right or left  $\pm$  right analyser display.

### SH-8045 Stereo Equaliser

- 12 band  $\pm 12$ dB/ $\pm 3$ dB selected equalisation.
- Equaliser on/off and tape monitor switch.



SH-8038

### SH-8038 Stereo Graphic Equaliser

- 7-band,  $\pm 12$ dB equalization for each channel.
- Smooth slide controls with LED indicators.
- 'Reverse' function inverts EQ curve, permitting unequaled playback of equalized tapes.
- Tape recording/playback with equalization.
- EQ on/off switch.



## SEPARATES

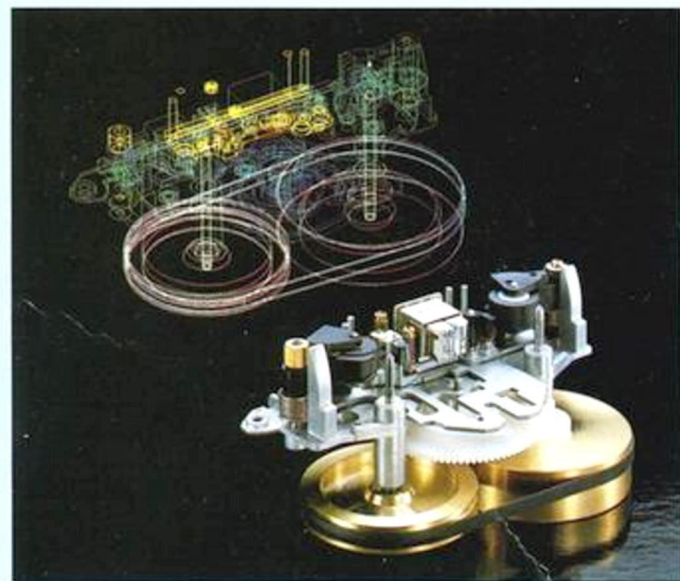
Technics cassette decks are ideal for recording and playback of digital sources. They offer not only good sound, but also convenience and reliability.

## Dolby \* HX PRO and 3 NR System

The Dolby HX Pro system automatically optimizes bias for greater high frequency, and lower distortion levels during recording. Built-in dbx \*\* reduces tape hiss by expanding dynamic range to about 110dB. Dolby B-C NR gives

widespread noise reduction for compatibility with other systems. The result is ideal for digital source recording and completely compatible with your car audio, portable stereo, or other cassette deck system.

## Dual-Capstan, Closed-Loop, 3-Head System



The capstan before the take-up reel is linked by a precision belt to an additional capstan on the supply side. This forms a closed loop which stabilizes the tape as it passes the heads. With three

heads, you can check quality by listening to the sound while you record it. Each head is optimized for its specific task, with computer-designed construction to eliminate azimuth errors.

## Class AA Rec/EQ Amp

To bring out the full potential of the tape transport and head systems, Technics' new advanced decks feature the breakthrough Class AA circuit technology already proven in Technics' hi-fi

amplifiers. By isolating voltage control from the current supply in the equaliser circuit Class AA helps assure that the recorded wave form is faithful to the input signal.

\* Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX PRO originated by Bang and Olufsen. "Dolby", the double-D symbol and "HX PRO" are registered trademarks of Dolby Laboratories Licensing Corporation.

\*\* dbx is a registered trademark of dbx Inc.



RS-B705



RS-B605

## RS-B905 3 Head Stereo Cassette Deck

- Three head system with full off tape monitoring.
- Dolby HX-PRO. Double 3NR system: Dolby B-C NR and dbx.
- Record level and bias preset calibration adjustment permits adjustment of the RS B905 to any specific tape.
- Dual capstan closed loop system.
- Phase compensation assures waveform fidelity.
- Class AA record equalizer.

class AA 3 HEAD dbx DOLBY B-C NR DOLBY HX PRO

## RS-B705 3 Head Stereo Cassette Deck

- Three head system with full off tape monitoring.
- Dolby HX-PRO double Dolby B-C noise reduction system.
- Bias fine adjustment.
- Class AA record equalizer.

class AA 3 HEAD DOLBY B-C NR DOLBY HX PRO

## RS-B608R Quick Reverse Stereo Cassette Deck with Dolby HX PRO

- Dolby HX PRO dynamically optimizes the recording to enhance high range performance.
- 3 NR systems (dbx, Dolby B-C NR).
- Quick reverse mechanism with an infrared photosensor detection system.
- Class AA circuitry in rec amp assures that the recording waveform is faithful to the input signal.
- 2-motor drive.
- Microprocessor leather-touch control.
- Wide-range 3-colour FL peak level meters.
- Auto rec mute and music select.
- Electronic digital tape counter.

class AA AUTO REVERSE DOLBY HX PRO dbx DOLBY B-C NR

## RS-B605 Stereo Cassette Deck

- Dolby HX-PRO headroom extension system.
- 3NR: Dolby B-C and dbx noise reduction system.
- Class AA record equalizer.
- Precise electronic digital tape counter.

class AA dbx DOLBY B-C NR DOLBY HX PRO

## RS-B505 Stereo Cassette Deck

- Dolby HX-PRO headroom extension system.
- Dolby B-C noise reduction system.
- Class AA record equalizer.
- Precise electronic digital tape counter.

class AA DOLBY B-C NR DOLBY HX PRO



RS-B608R



RS-B505

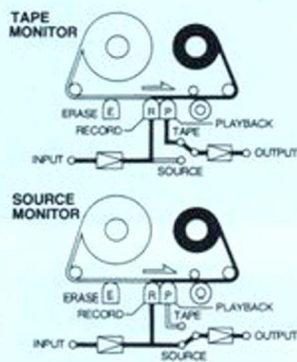


RS-B905

## 3 Head System

The 3 head system allows separate dedicated heads for erase, record and playback. Rather than compromise the design of one head for both record and playback the separate record head has a wide gap ( $4\mu$ ) to raise maximum output level while the playback head with a narrow gap ( $1\mu$ ) ensures good high frequency playback.

As the record and playback heads are separate it is possible to monitor the recording a split second after it has been made giving additional confidence in the results of an important recording.



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RS-B355



RS-B205



RS-B355



RS-T80R



RS-T55R



RS-T330R



RS-T230



RS-T130



RS-T230



### RS-B355 2-Motor, Microprocessor-Controlled Stereo Cassette Deck

- Microprocessor feather-touch control with a 2 motor drive achieves greater reliability and smoother operation, while contributing to tape speed accuracy.
- Dolby B & C noise reduction systems. ■ 2-colour LED peak level meters.
- Auto rec mute. ■ Master rec level control. ■ Metal compatible MX head.
- Auto tape select with LED indicators. ■ Black (K) and Silver (S) finishes

DOLBY B-C NR

### RS-B205 Dolby B-C Soft Touch Stereo Cassette Deck

- Dolby B-C noise reduction system. ■ Convenient soft touch controls - single button recordings.
- Peak reading 2-colour LED level meters.

DOLBY B-C NR



### RS-T80R Double Quick Reverse Stereo Cassette Deck

- 3 hour series recording. Both tape decks record and have quick reverse allowing Deck A to record both sides followed by Deck B - a total of 3 hours virtually uninterrupted recording and playback using C90 cassettes.
- Simultaneous parallel recording means it is possible to record the same source onto Deck A and B at the same time. ■ Series playback offering up to 24 hours of continuous playback from two C90 tapes. ■ High speed editing.
- 3NR: Dolby B-C and dbx noise reduction system. ■ Non dbx editing makes a non dbx version of a dbx original.

DOLBY B-C NR



### RS-T55R Double Quick Reverse Stereo Cassette Deck

- Double quick reverse with 24 hours continuous playback on two C90 tapes - each replay up to 8 times. ■ High speed editing with synchro start, synchro stop and synchro record for convenience. ■ 3NR: Dolby B-C and dbx noise reduction system. ■ Microprocessor 2 motor feather touch operation.

DOLBY B-C NR

### RS-T330R Quick Reverse Double Cassette Deck

- Features a quick reverse deck (DECK A, rec/playback) and a standard deck (DECK B, playback). ■ High speed editing lets you edit a tape in about half the usual time. Editing functions include synchro start, synchro stop, and synchro rec-mute. ■ Quick reverse mechanism with an infrared photosensor detection system (DECK A). ■ Dolby B & C noise reduction systems. ■ Microprocessor full-logic control. ■ Series Playback ■ Auto rec-mute. ■ 2-colour FL peak level meters.

DOLBY B-C NR

### RS-T230 Stereo Double Cassette Deck

- High speed editing lets you edit a tape in about half the usual time. Editing functions include synchro start, synchro stop and synchro rec mute. ■ Dolby B & C noise reduction systems. ■ Microprocessor full-logic control. ■ Series playback. ■ 2-colour LED peak level meters. ■ Auto rec mute and auto tape select. ■ Black (K) and Silver (S) finishes

DOLBY B-C NR

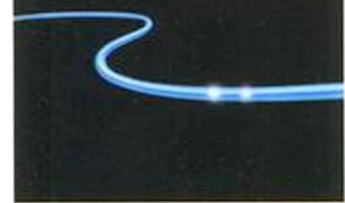


### RS-T130 Stereo Double Cassette Deck

- High speed editing lets you edit a tape in about half the usual time. ■ Auto Space Control automatically makes silent gaps between songs.
- Microprocessor soft-touch control. ■ Series playback. ■ Synchro editing start.
- 2-colour LED peak level meters. ■ Dolby B NR system. ■ Auto tape select with LED indicators.

DOLBY B NR

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SEPARATES



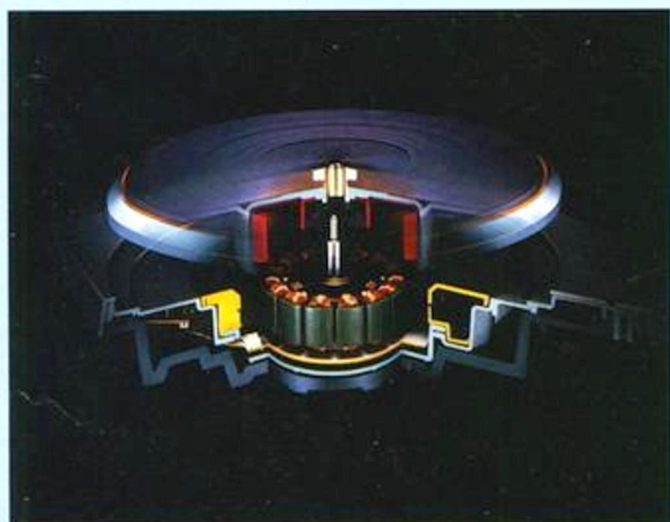
SL-1200MKII



SL-1210MKII

Innovative direct-drive technology has established Technics as the leading turntable for professional and broadcast use. Over 5000 broadcasting stations rely on Technics quality and accuracy on air.

Quartz direct-drive motor with high rotational accuracy



Technics' leading direct-drive technology has achieved exceptionally high rotational accuracy and low wow & flutter. Our integral rotor-platter design translates this precision into superb performance. Our phase-locked direct-drive DC motor

prevents even slight speed deviation by locking the FG signal precisely in phase with an unwavering quartz crystal, thereby achieving extremely low levels of wow & flutter and rumble.

### Accurate, convenient **T4P** plug-in cartridge connector system

Technics' original **T4P** plug-in connector cartridge system is now used by hi-fi makers worldwide. Simply plug it in to the tonearm and tighten a single screw - no

adjustment is needed. Connection is firm and the tonearm and cartridge are well-matched

### Highly accurate linear tracking tonearm

As on the mastering lathe used to cut records, the Technics linear tracking tonearm moves in a straight line across the record, virtually eliminating tracking

error and distortion. Also, an optoelectronic sensor sends data to a microcomputer which ensures precise control over the DC motor and tonearm.

### SL-1210MKII Semi Professional Quartz DD Turntable

- DD quartz lock with integral rotor platter. ■ Variable speed  $\pm 8\%$ . ■ High torque for quick starts (1.5kg/cm reaches 33 $\frac{1}{3}$ rpm in 0.7 sec). ■ Precision diecast aluminium chassis with heavy rubber base and vibration absorbing feet minimise acoustic feedback. ■ Available in silver - model SL 1200 MKII.

This robust high performance turntable with integrated precision tonearm is virtually standard equipment in discotheques and professional DJ's appreciate the superb sound quality, versatility and precision robust construction.

**QUARTZ DIRECT DRIVE**

### SL-QD33 Quartz DD Fully Automatic Turntable

- Fully automatic with separate microprocessor controlled arm drive motor. ■ Automatic disc size selection. The arm will not drop without a record in place. ■ Optical end of record detection reduces stylus wear. ■ Low mass straight tonearm with sensitive 4 point gimbal suspension and T4P universal cartridge mount. ■ Supplied with EPC P30 moving magnet cartridge.

**T4P QUARTZ DIRECT DRIVE**

### SL-DD33 Direct Drive Fully Automatic Turntable

- Phase locked DD motor minimises speed fluctuations. ■ Automatic disc size selection. The arm will not drop without a disc in place. ■ Low mass straight tonearm with sensitive 4 point gimbal suspension and T4P universal cartridge mount. ■ Antivibration TNRC (Technics Non Resonant Compound) base. ■ Supplied with EPC P30 moving magnet cartridge.

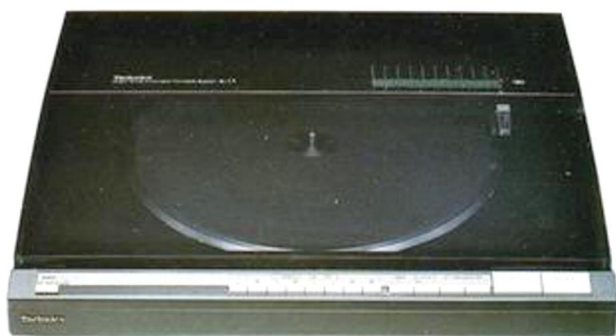
**T4P DIRECT DRIVE**



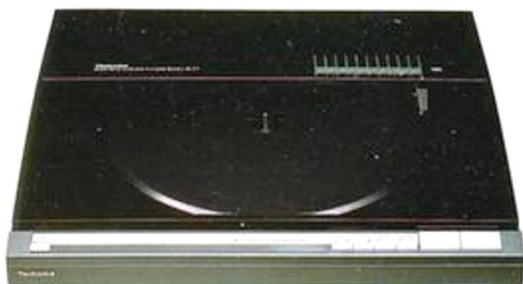
SL-QD33



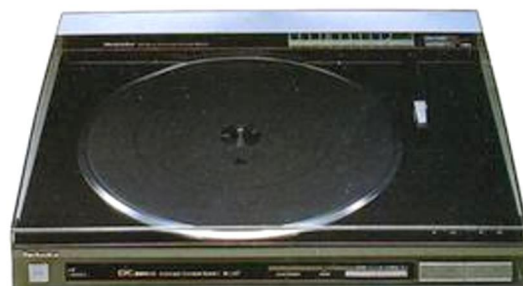
SL-DD33



SL-L3



SL-L1



SL-L20



SL-BD22



SL-BD20

### SL-L3 Programmable Quartz Linear Tracking Turntable

- 8 band random access programming. ■ Microprocessor controlled operation including automatic disc size and speed. ■ Direct access and skip functions.
- Precision linear tracking tonearm with T4P universal cartridge mount.
- Supplied with EPC P33 moving magnet cartridge.

**T4P** QUARTZ DIRECT DRIVE

### SL-L1 Direct Drive Linear Tracking Turntable

- Direct-drive brushless DC motor. ■ Two speed search and repeat functions.
- Automatic disc detection. The arm will not fall without a disc in place. ■ EPC P30 MM cartridge supplied

**T4P** DIRECT DRIVE

### SL-L20 Automatic Linear Tracking Turntable

- Microprocessor controlled linear tracking tonearm with T4P universal cartridge mount. ■ Two speed search and repeat functions. ■ DC servo motor belt drive system ■ Automatic disc detection. ■ EPC P30 MM cartridge supplied.

**T4P**

### SL-BD22 Belt Drive Semi Automatic Turntable

- DC FG servo motor for speed stability and reliability. ■ Variable pitch control. ■ Illuminated stroboscope. ■ Low mass straight tonearm with sensitive 4 point gimbal suspension and T4P universal cartridge mount. ■ EPC P24 moving magnet cartridge supplied. ■ Available in black (K) or silver (S).

**T4P** FG SERVO

### SL-BD20 Belt Drive Semi Automatic Turntable

- Similar to SLBD22K. ■ Without stroboscope and pitch control.
- DC servo motor.

**T4P**

## SEPARATES

For superlative digital and audio-visual source reproduction, the natural choice is Technics speakers

## Coaxial Flat Speakers



In the Technics coaxial design, the tweeter is built into the centre of the woofer, achieving the wide band reproduction of a multi-way system and a shape that attains the conceptual ideal of 'point sound source'

reproduction. Technics SB-RX50 employs a flat diaphragm that eliminates the frequency-distortion 'cavity effect' that plagues conventional cone-shape speakers.

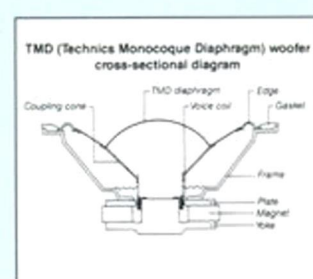
## 2-Way Anti-Magnetic Construction

In the SB-RX50, a second magnet is placed behind the main magnet, with its poles reversed to cancel flux. Then, magnetic shielding further reduces leakage of magnetic

flux to the outside. The result is that the speakers will not interfere with the picture on your TV screen if placed alongside.

## TMD (Technics Monocoque Diaphragm)

Computer designed for optimum rigidity, Technics TMD speaker diaphragms combine the cone and centre cap in unified 'monocoque' construction. This unique shape, together with a nodal drive coupling cone, results in a doubling of piston motion for more accurate response. You'll notice the difference particularly with the sharp transients of digital sources.



SB-RX50

## SB-RX50 Coaxial 2-Way Flat Diaphragm Speaker System

- 24cm flat diaphragm bass unit with coaxial 2.8cm flat diaphragm tweeter producing an ideal point source for precise stereo imaging.
- Bass unit diaphragm constructed of rigid cross carbon material maintaining piston motion to above 4kHz.
- Tweeter diaphragm of mica epoxy resin for higher strength and lowest mass. High efficiency samarium cobalt tweeter magnet system.
- Balancing magnets reduce external magnetic field for AV use so that alongside a television monitor the SB-RX50 will have no adverse effects on the picture.
- High purity LC-OFC wiring.
- Input power 80W (160W music).

## SB-C450 3-Way Speaker System

- TMD 20cm woofer. Computer designed for high rigidity and low distortion, this advanced woofer features unified construction of its diaphragm and centre cap hence the TMD name, for 'Technics Monocoque Diaphragm.' With nodal drive, TMD nearly doubles the range of piston motion for greater sonic accuracy and coherence. The Crystallized Mica Polypropylene or CMP diaphragm material has the high internal loss needed for satisfying bass response. Rated power handling is 100W DIN or 200W music, thanks to the 38mm voice coil's heat resistance.
- 4.5cm soft dome midrange. Achieves accurate piston motion and broad dispersion for natural midrange detail.
- 2.5cm soft dome tweeter. Magnetic fluid raises power handling to assure greater reliability.
- Highly rigid non-diffractive baffle.

## SB-C350 3-Way Speaker System

- 20cm CMP (Crystallized Mica Polypropylene) bass unit.
- 10cm CMP midrange unit.
- 2.5cm soft dome tweeter.
- Cabinet edges rounded to reduce secondary diffraction and assure precise stereo imaging.
- Input power 70W DIN (140W music).
- Dark rosewood effect (K) or dark walnut effect (M).

## SB-C250 2-Way Speaker System

- 18cm CMP (Crystallized Mica Polypropylene) bass unit has high rigidity, low bass and high internal losses giving ideal characteristics. Dual linear suspension improves linearity at high levels.
- 2.5cm dome tweeter with silk and resin diaphragm permits extended frequency response and ideal dispersion characteristics for excellent imaging and delicate high frequency performance.
- Rounded cabinet edges.
- Input power 60W (DIN) 120W (music).
- Dark rosewood effect (K) or dark walnut effect (M).



SB-C450



SB-C250



SB-C350



SB-C250



SB-C350



SB-F2MKII



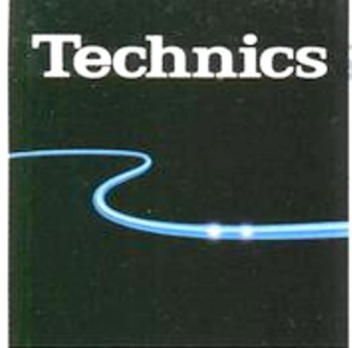
SB-F1MKII

**SB-F2MKII 2-Way Compact Honeycomb Disc Speaker System**

- 14cm honeycomb disc bass unit and 2.8cm disc tweeter. ■ Diecast aluminium cabinet. ■ Rounded baffle edges reduce diffraction effects.
- Magnetic shielding permits AV use alongside a colour TV. ■ 4Ω or 8Ω switchable. ■ Input power 50W DIN (100W music).

**SB-F1MKII 2-Way Compact Honeycomb Disc Speaker System**

- 12cm honeycomb disc bass unit and 2.8cm disc tweeter. ■ Diecast aluminium cabinet. ■ Rounded baffle edges reduce diffraction effects. ■ 4Ω or 8Ω switchable. ■ Input power 40W DIN (80W music).



X990D **360** Series



## Superb Sound and Friendly Convenience

Technics hi-fi systems give you a unique combination - sound that satisfies hi-fi enthusiasts, and functions that make audio easy for anyone to use. Technics delivers much better sound quality. The digital optical link transfers digital data directly from the CD player to the digital amplifier. Technics tuners boast digital circuitry while CD players employ 2-DAC 4-times oversampling digital filters. Convenient functions? Try wireless remote control, Auto CD Editing, and the Digitally Encoded Volume Control with level indicator. Double reverse decks offer more versatile tape playback, while tuners with built-in timers give you greater listening freedom. No matter how you look at it, Technics gives you more.

31-KEY INFRA-RED REMOTE CONTROL

100W x 2 CLASS AA DIGITAL AMPLIFIER

QUARTZ SYNTHESIZER DIGITAL TUNER WITH 28 PRESETS

DECK A (REC/PB)+DECK B (REC/PB) DOUBLE QUICK-REVERSE DECK

PROGRAMMABLE QUARTZ DD LINEAR TRACKING TURNTABLE

3-WAY SPEAKER SYSTEM

## SU-X990D

100W x 2 Class AA DIGITAL Digital Amplifier

Technics' SU-X990D amp has a built-in D/A converter and an optical digital input terminal which receives digital signals directly from the CD player. This guarantees that CD signals are virtually free of distortion, for playback that achieves fullest fidelity and brilliance. The amplifier also uses Class AA circuitry for optimum fidelity as used in Technics' most advanced separates components and includes AV Surround sound to create exciting ambient effects.



## RS-X990

High-Speed Editing Double Auto-Reverse Deck

The RS-X990 has two auto-reverse decks for recording and playback versatility. For example, you can use two 90-min tapes for 3-hour series recording, or carry out simultaneous parallel recording on both DECK A and DECK B. Series playback allows continuous, consecutive playback from both sides of both tapes. The infrared sensing Quick-Reverse Mechanism cuts reversing time to about 1 second.

This deck also features microprocessor full-logic control, 2-motor feather-touch operation, external editing function which enables equalized tape editing or mixing, Dolby® B-C NR, tape-to-tape synchro start.



## SL-PJ45

Compact Disc Player (optional)

The SL-PJ45 incorporates the same superb 2-DAC (D/A Converter) and 4 times oversampling digital filter used in Technics' top-line CD players. It's features include auto Peak



Level Search, optical digital output terminal, direct access and 20-selection random access programming by 10-key pad.

## SB-F990

3-Way Speaker System

Consisting of a 20cm woofer with powerful bass response, 10cm cone-type midrange and 5.5cm cone-type tweeter. Input power: 100W (DIN), 200W (music).

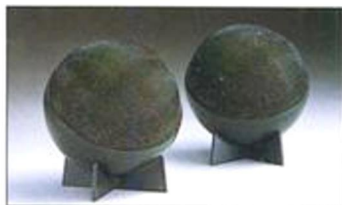
## SH-E75

Optional Electronic Graphic Equalizer

The SH-E75 electronic graphic equalizer permits independent, 7-band,  $\pm 12$ db control of L and R channels. Up/down keys make EQ level control quick and accurate. It also features independent L/R spectrum analyzers that switch to EQ curve displays. Store and recall up to 6 EQ curves with ease. Also included are EQ plus function and EQ curve reverse switch.

## SB-S30

AV Surround Rear Speakers (optional)



## ST-X990L

Quartz Synthesizer Digital Tuner

Technics quartz synthesizer circuitry guarantees greater accuracy, sound quality, and convenience. Enjoy any combination of LW, MW, and FM stations, up to a total of 28. Preset stations can be quickly and simply accessed with the 10-key pad.

Features include built-in quartz programmable timer with three operation modes: once, weekly, and sleep and auto-scan tuning and auto memory.



## SL-J300R

Programmable Quartz DD Linear Tracking Turntable

The SL-J300R turntable employs a quartz-controlled direct drive motor. With 8-band random access programming, you can preset up to eight tracks to play back in the order you desire.



Technics 360 Series offers the performance of Hi Fi components - with the sheer convenience of Midi. In fact the performance of the new 360 series extends even beyond that expected of most component systems by the incorporation of a Digital Optical Link to preserve the clarity, delicacy and precision of CD sound as it is transferred from the CD player (SL-PJ45) to the new Digital Amplifiers.

So excellent is the sound of the Technics CD player for our new range of remote controlled Midi Systems that rather than rely on transferring the music from the CD player to amplifier in its analogue form along ordinary connection wires, Technics chooses a

Digital Optical Link.

By transferring the music in Digital form as a precisely controlled light beam, carrying both left and right channels down a high technology optical fibre, it is impossible to lose any of the delicate information reproduced from the Compact Disc - neither is it possible for any amount of electrical interference to break into the music. The Digital Optical Link is simplicity to connect and perfection to listen to - pure sound carried as pure light.

Digital inputs on the Digital Amplifiers allow for future compatibility with DAT and satellite as well as CD with the automatic selection of sampling rates of 36, 44 and 48kHz.



**X980D** **360 Series**

Optional component illustrated is SL-PJ45, CD Player.

**31-KEY INFRA-RED REMOTE CONTROL****80W x 2 NEW CLASS A DIGITAL AMPLIFIER****QUARTZ SYNTHESIZER DIGITAL TUNER WITH 28 PRESETS****DECK A (REC/PB)+ DECK B (PB ONLY) DOUBLE QUICK-REVERSE DECK****FULLY AUTOMATIC TURNABLE****3-WAY SPEAKER SYSTEM****SU-X980D**

**80W x 2 New Class A DIGITAL Digital Amplifier**  
Technics' SU-X980D amp has a built-in D/A converter and an optical digital input terminal which receives digital signals directly from the CD

player. The optical link transfers the CD signals with virtually no distortion, for absolute CD sound fidelity. The New Class A amplifier circuitry is exceptionally clean and powerful - 80W per channel.

It also features Digitally Encoded Volume with level indicator, AV Surround Circuitry which creates a breathtaking concert hall ambience, and a Super Bass switch.

**ST-X990L****Quartz Synthesizer Digital Tuner**

Technics quartz synthesizer technology brings you the accuracy and superior sound of quartz, plus the convenience of pushbutton microprocessor controls. You can preset up to 28 LW, MW, and FM stations of your choice and instantly access them with the 10-key pad.

Features include built-in quartz programmable timer with three operation modes: once, weekly and sleep plus auto-scan tuning and auto memory.

**RS-X980****Double Auto-Reverse Cassette Deck**

The cassette deck features two auto-reverse decks (DECK A, rec/playback; DECK B, playback only). The quick-reverse mechanism uses an infrared photosensor for fast switching. High-speed editing cuts editing time in half. Series playback allows continuous play from both sides of the DECK A and DECK B cassettes. Features include microprocessor full-logic control, electronic digital counter, Dolby B-C NR, tape-to-tape synchro start and music select.

**SL-J110R****Belt-Drive Fully Automatic Turntable****SB-F980****3-Way Speaker System**

Consisting of a 20cm woofer, 5.5cm cone-type midrange and a tweeter with fine ceramic horn-type drive. Input power 80W (DIN) 160W (music).

The 360 Components SU-X990D, SU-X980D, ST-X990L, RS-X990, RS-X980, SL J300R and the range of CD Players and Graphic Equalisers are all available separately to enable you to tailor a system to your particular requirements.



X950 **300 Series**



Optional components illustrated are SH-E60, Graphic Equaliser and SL-PJ45, CD Player.

**31-KEY INFRA-RED REMOTE CONTROL**

**60W x 2 NEW CLASS A AMPLIFIER**

**QUARTZ SYNTHESIZER DIGITAL TUNER WITH 28 PRESETS**

**DECK A (REC/PB)+DECK B (PB ONLY) DOUBLE QUICK-REVERSE DECK**

**FULLY AUTOMATIC TURNTABLE 3-WAY SPEAKER SYSTEM**

**SU-X950**

**60W x 2 New Class A Amplifier**  
The amplifier delivers 60W + 60W high power output (DIN, 8Ω). New Class A circuitry helps eliminate

switching distortion, for excellent reproduction fidelity. Electronically driven Digitally Encoded Volume with levels shown by digital dB display and bar graph. Also included are AV Surround Circuitry which creates the 'surround sound' ambience of a concert hall and a Super Bass switch which can be turned on for tighter, richer bass effects.



**ST-X990L**

**Quartz Synthesizer Digital Tuner**  
Technics quartz synthesizer technology brings you the accuracy and superior sound of quartz, plus the convenience of pushbutton microprocessor controls. You can preset up to 28 LW, MW, and FM stations of your choice and instantly

access them with the 10-key pad. Features include built-in quartz programmable timer with three operation modes: once, weekly, and sleep plus auto-scan tuning and auto memon

**RS-X950**

**Double Auto-Reverse Cassette Deck**  
The cassette deck features two auto-reverse decks (DECK A, rec/playback; DECK B, playback only). The quick-reverse mechanism uses an infrared photosensor for fast switching. High-speed editing cuts editing time in half. Features include microprocessor full-logic control, electronic digital counter, Dolby B-C NR, tape-to-tape synchro start and music select.



**SL-J110R**

**Belt-Drive Fully Automatic Turntable**  
Features include DC servo motor for accurate platter rotation and synchro-rec function.

**SB-F950**

**3-Way Speaker System**  
Includes 16cm cone type woofer, 5.5cm cone-type midrange and fine-ceramic horn-type tweeter. Input power: 60W (DIN), 120W (music).

**SH-E60**

**Optional Stereo Graphic Equalizer**  
Independent 7-band, ±12dB control for L and R channels, dual spectrum analyzers for L/R channels and EQ on/off switch.

X930 **500 Series**

29-KEY INFRA-RED REMOTE CONTROL

50W x 2 NEW CLASS A AMPLIFIER

QUARTZ SYNTHESIZER DIGITAL TUNER WITH 24 PRESETS

DECK A (REC/PB)+DECK B (PB ONLY) DOUBLE AUTO-REVERSE DECK

## SU-X930

Stereo Double Cassette Amplifier

**50W x 2 New Class A Amplifier** The X930 amplifier pumps out an impressive 50W + 50W (DIN, 8Ω) and New Class A circuitry eliminates switching distortion for top fidelity. Electronically driven Digitally Encoded Volume maintains sound quality over time. Includes 7 LED volume/balance indicator and muting switch.

new class A



Optional components illustrated are SH-E50, Graphic Equaliser and SL-PJ25, CD Player.

**Double Auto-Reverse Cassette Deck** The cassette deck features two auto-reverse decks (DECK A, rec/playback; DECK B, playback only). High-speed editing cuts editing time in half. Series playback allows continuous play from both sides of the DECK A and DECK B cassettes.

Features include Rewind Auto Edit which automatically rewinds the tapes in both decks and starts recording from DECK B to DECK A,

CD-to-tape synchro start/stop, tape-to-tape synchro start, microprocessor full-logic control and Dolby B NR.



## ST-X930L

Quartz Synthesizer Digital Tuner

Quartz synthesizer tuning provides

convenience and accuracy. With a 24-channel random access preset memory, you can store any combination of LW, MW, and FM stations, up to a total of 24. You can easily access the preset stations by using the 10 numeric keys.

## SL-J110R

DC Servo Belt-Drive Fully Automatic Turntable

Just put on a disc, press the start/stop key, and the SL-J110R takes over. Full front access including up/down cueing and speed selection.

## SB-F950

3-Way Speaker System

Features 16cm woofer, 5.5cm cone-type midrange and a tweeter with fine-ceramic horn-type driver. Input power: 60W (DIN), 120W (music).

## SH-E50

Optional Stereo Graphic Equalizer

The SH-E50 lets you boost or attenuate response by up to 12dB in 12 bands (per channel) across the frequency spectrum. Allows you to compensate for tonal deficiencies and create specially equalized recordings. Includes LED L/R input level meters and EQ on/off switch.

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## Technics

X920 **500 Series**

29-KEY INFRA-RED REMOTE CONTROL

40W x 2 NEW CLASS A AMPLIFIER

QUARTZ SYNTHESIZER DIGITAL TUNER WITH 24 PRESETS

AUTO-REVERSE DOUBLE CASSETTE DECK

FULLY AUTOMATIC TURNTABLE

2-WAY SPEAKER SYSTEM

## SU-X920

Stereo Double Cassette Amplifier

**40W x 2 New Class A Amplifier** The X920 amplifier delivers an impressive 40W + 40W and New Class A circuitry eliminates switching distortion for top fidelity.



Electronically driven Digitally Encoded Volume maintains sound quality over time. Includes 7 LED volume/balance indicator, Super Bass switch, and muting switch.

new class A

**Auto-Reverse Double Cassette Deck** The cassette deck features an auto-reverse deck (DECK A, rec/playback) and a standard deck (DECK B, playback only). High-speed

editing cuts editing time in half. Series playback plays both sides of the DECK A cassette and the forward side of the DECK B cassette.

Features include Rewind Auto Edit which automatically rewinds the tapes in both decks and starts recording from DECK B to DECK A, CD-to-tape synchro start, Microprocessor full-logic control, Dolby B NR.



## ST-X930L

Quartz Synthesizer Digital Tuner

## SL-PJ25

**Optional Compact Disc Player** Advanced Technics technology like the 2-DAC (D/A Converter) and 4-times oversampling digital filter make this Compact Disc player an exceptional performer. A Preset Editing function is included along with High Speed Linear Motor Access System which locates tracks in an average of about 1 sec. 20-selection random access programming.

## SL-J90

DC Servo Belt-Drive Fully Automatic Turntable

Just put on a disc, press the start/stop key, and the SL-J90 takes over. Full front access including up/down cueing and speed selection.

## SB-F920

2-Way Speaker System

Contains 16cm woofer. Input power: 40W (DIN), 80W (music).

X920CD **500 Series**

System comprises X920 plus SL-PJ25 CD Player.

**X900** **360 Series**

23-KEY INFRA-RED REMOTE CONTROL

30W x 2 AMPLIFIER

QUARTZ SYNTHESIZER DIGITAL TUNER WITH 24 PRESETS

DOUBLE CASSETTE DECK WITH SERIES PLAYBACK

FULLY AUTOMATIC TURNTABLE

2-WAY SPEAKER SYSTEM

**SA-X900L****Stereo Double Cassette Receiver**

**30W x 2 Amplifier** The amplifier's rated output is 30W per channel. Electronically driven Digitally Encoded Volume maintains sound quality over time.

The Super Bass switch gives an ideal bass boost to the sound.

**Quartz Synthesizer Tuner**

Digital Quartz synthesizer tuning



provides convenience and accuracy. With a 24-channel random access preset memory, you can store any combination of LW, MW and FM stations. You can easily access the preset stations by using the 10 numeric keys. Includes Auto-scan tuning.

**Double Cassette Deck with Series Playback** Series playback provides long playing convenience and multitape listening by playing two different cassettes one after the other. Synchro-start lets you begin editing at

the touch of a single key. Microprocessor full-logic control assures comfortable, positive operation. Features include Rewind Auto Edit which automatically rewinds the tapes in both decks and starts recording from DECK B to DECK A, CD-to-tape synchro start/stop, Dolby B NR, automatic level control, and auto tape selection (normal/ CrO<sub>2</sub>).

**SL-J90****DC Servo Belt-Drive Fully Automatic Turntable**

Just put on disc, press the feather-touch start/stop key, and the SL-J90 takes over. Full front access including up/down cueing and speed selection.

**SB-F900****2-Way Speaker System**

Contains 16cm cone-type woofer. Input power 30W (DIN), 60W (music).

**SL-PJ25****Optional Compact Disc Player**

Advanced Technics technology like the 2-DAC (D/A Converter) and 4-times oversampling digital filter make this Compact Disc player an exceptional performer. Features include a Preset Editing function, High-Speed Linear Motor Access System which locates tracks in which an average of about 1 sec, and 20-selection random access programming.

**X900CD** **360 Series**

System comprises X900 plus SL-PJ25 CD Player.

**Infra-red remote control units**

**X990D/X980D/X950 Systems Remote Control.** 31 keys for Power on/off, Muting, Volume up/down, Turntable start/stop, Tuner pre-set recall, CD Player play/pause, stop, skip/search, EQ on/flat, pre-set, Tape deck A/B, play, stop, auto rec mute, FF, Rew, pause, record.

**X930/X920 Systems Remote Control.** 29 keys for Power on/off, Muting, Volume up/down, Turntable start/stop (not X920), Tuner pre-set recall, CD Player play/pause, stop, skip/search, EQ on/flat, pre-set, Tape deck A/B, play, stop, FF, Rew, record pause (deck A).

**X900 Systems Remote Control.** 23 keys for Muting, Volume up/down, Tuner pre-set recall, CD Player, play/pause, stop, skip/search, Tape deck A/B, play, stop, FF, Rew, record pause (deck A).

**System accessories**

HS-X880



HS-X815



SB-S30

HS-X880 hi fi cabinet (shown with optional hi fi components)

HS-X815 hi fi cube cabinet (with internal width 38cm) for disc or additional electronics storage.

SB-S30 AV Surround Rear Speakers



## MICROPHONES

A range of versatile and robust dynamic unidirectional microphones offering excellent characteristics and freedom from batteries. Built in on-off switch on all models and cannon

connector for VK5, VK10 and VK15. All models have 1/4" jack. An optional test mic, RP-3800E, is available for SH-8066 and SH-8055 Graphic Equalisers (see pages 12/13).

## CARTRIDGES

### EPC-P205CMK4

#### Stereo MM Cartridge

- Pure boron tapered pipe cantilever.
- New Neodymium alloy magnet.
- Disc-shaped magnet and one-point suspension system.

### EPC-P550

#### Stereo MM Cartridge

- Pure boron pipe cantilever.
- All laminated core magnetic circuit for flat frequency response.
- One-point suspension system.

### EPC-P205CMK3

#### Stereo MM Cartridge

- Pure boron pipe cantilever.
- 'HPF' core magnetic circuit.
- Disc-shaped samarium cobalt magnet and one-point suspension system.



### RP-VK15



### RP-VK5



### RP-VK10



### RP-VK3



## HEADPHONES

Technics range of lightweight headphones for the digital age.

### EAH-X250

#### Two Way Double Drive Unit System - 42mm Woofer, 32mm Tweeter

- Closed back design - double earpads improve L.F. response and reduce external noises.
- Litz LC-OFC cable and gold plated 1/4" jack (3.5mm adaptor supplied).
- 55Ω impedance, 300mW rating.

### EAH-X15

- 400mm Flat-Disc Diaphragm for low distortion powerful bass.
- Lightweight 125g ■ 45Ω impedance, 100mW rating.

### EAH-X10

- 40mm Drive Unit.
- Lightweight 110g. ■ 45Ω impedance, 100mW rating.

### EAH-X8

- 32mm Drive Unit.
- Lightweight 85g. ■ 45Ω impedance, 50mW rating.

### EAH-01

- Ultra-lightweight dynamic headphones.
- 50Ω impedance, 100mW rating.

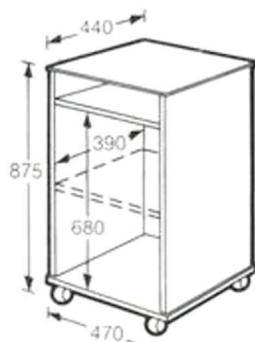
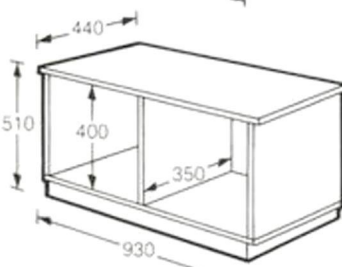
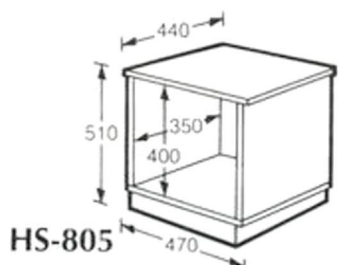
### EAH-Z70

- Inner-ear type.
- Two way double drive unit system - 19mm woofer, 11mm tweeter.
- Litz LC-OFC cable reduces signal transmission loss.
- Gold plated 3.5mm jack (1/4" adaptor supplied).
- Complete with compact carrying case.
- 28Ω impedance, 50mW rating.



## HI-FI FURNITURE

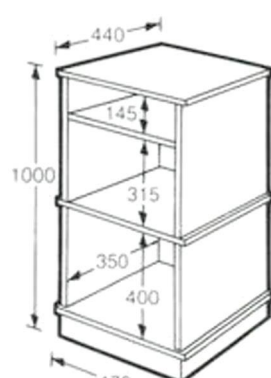
All available separately. Dimensions in mm.



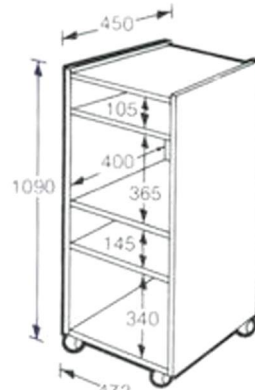
HS-620



HS-660



HS-680



HS-670

	System X9900	System X9800	System X950	System X930	System X920	System X900
<b>Infrared remote control unit</b> Dimensions (W x H x D) Weight (including battery) Power source		<b>31-Key</b> 61 x 165 x 20mm 110g 1.5V x 2, R3 or equivalent		<b>29-Key</b> 61 x 165 x 20mm 110g 1.5V x 2, R3 or equivalent		<b>23-Key</b> 61 x 165 x 20mm 110g 1.5V x 2, R3 or equivalent
<b>Amplifiers (DIN 45 500)</b>	<b>SU-X9900</b>	<b>SU-X9800</b>	<b>SU-X950</b>	<b>SU-X930</b>	<b>SU-X920</b>	<b>SA-X900L</b>
1kHz continuous power output both channels driven (8Ω) Total harmonic distortion half power at 1kHz (8Ω) Frequency response analogue section PHONO (30Hz-15kHz) TUNER, CD, AUX, TAPE (-3dB) Digital section CD, DAT S/N rated power (8Ω) PHONO TUNER, CD, AUX, TAPE Dimensions (W x H x D) Weight	100W x 2 0.007% RIAA standard curve ± 0.8dB 10Hz - 80kHz 15Hz - 20kHz (-0.5dB)	80W x 2 0.009% RIAA standard curve ± 0.8dB 15Hz - 55kHz 15Hz - 20kHz (-0.5dB)	60W x 2 0.009% RIAA standard curve ± 0.8dB 15Hz - 55kHz	50W x 2 0.009% RIAA standard curve ± 0.8dB 20Hz - 50kHz	40W x 2 0.009% RIAA standard curve ± 0.8dB 20Hz - 50kHz	30W x 2 0.05% RIAA standard curve ± 0.8dB 20Hz - 50kHz
<b>Cassette Decks</b>	<b>RS-X990</b>	<b>RS-X980</b>	<b>RS-X950</b>			
Wow and flutter Frequency response Metal tape CrO <sub>2</sub> tape Normal tape S/N Dolby C NR in Dolby B NR in NR out Dimensions (W x H x D) Weight	0.07% (WRMS) 30Hz - 18kHz 30Hz - 17kHz 30Hz - 16kHz 74dB (CCIR) 66dB (CCIR) 56dB (A weighted) 360 x 128 x 285mm 5.6kg	0.08% (WRMS) 30Hz - 18kHz 30Hz - 17kHz 30Hz - 16kHz 74dB (CCIR) 66dB (CCIR) 56dB (A weighted) 360 x 128 x 285mm 5.9kg	0.08% (WRMS) 30Hz - 18kHz 30Hz - 17kHz 30Hz - 16kHz 74dB (CCIR) 66dB (CCIR) 56dB (A weighted) 360 x 128 x 285mm 4.4kg	0.1% (WRMS) 30Hz - 17kHz (DIN) 30Hz - 16kHz (DIN) 30Hz - 15kHz (DIN) — 65dB (CCIR) 56dB (A weighted) 360 x 229 x 300mm 7.2kg	0.1% (WRMS) 30Hz - 17kHz (DIN) 30Hz - 16kHz (DIN) 30Hz - 15kHz (DIN) — 65dB (CCIR) 56dB (A weighted) 360 x 229 x 300mm 6.6kg	0.1% (WRMS) — 30Hz - 16kHz (DIN) 30Hz - 15kHz (DIN) — 65dB (CCIR) 56dB (A weighted) — — 360 x 292 x 308mm 7.0kg
<b>Tuners (DIN 45 500)</b>		<b>ST-X990L</b>		<b>ST-X930L</b>		
FM sensitivity (75Ω) FM alternate channel selectivity ( $\pm$ 400kHz) Dimensions (W x H x D) Weight		0.9µV (S/N = 20dB) 65dB 360 x 64.5 x 288mm 4.6kg		0.9µV (S/N = 20dB) 65dB 360 x 64.5 x 288mm 2.0kg		1.2µV (S/N = 26dB) — 360 x 292 x 308mm 7.0kg
<b>Turntables</b>	<b>SL-J200R</b>		<b>SL-J118R</b>		<b>SL-J90</b>	
Turntable type Wow and flutter Rumble Tonearm type Cartridge type Cartridge frequency response Replacement stylus Dimensions (W x H x D) Weight	Quartz-phase-locked direct drive fully automatic 0.025% WRMS -76dB DIN B Linear tracking straight tonearm, static- balanced type (EPC-P30) 10Hz - 40kHz EPS-30ES 360 x 95 x 318mm 4.5kg		Belt-drive fully automatic 0.045% WRMS -70dB DIN B Straight tonearm, static-balanced type (EPC-P24S) 10Hz - 30kHz EPS-24CS 360 x 83 x 320mm 2.5kg		Belt-drive fully automatic 0.045% WRMS -70dB DIN B Straight tonearm, static-balanced type (EPC-P24S) 10Hz - 30kHz EPS-24CS 360 x 83 x 320mm 2.5kg	
<b>Speaker Systems</b>	<b>SB-F990</b>	<b>SB-F980</b>	<b>SB-F950</b>	<b>SB-F920</b>	<b>SB-F900</b>	
Configuration Impedance Input power Output level Frequency range (-16dB) Dimensions (W x H x D) Weight	3-way, 3-speaker, closed 8Ω 200W (music) 87dB/W (1.0m) 33Hz - 25kHz 286 x 502 x 218mm 6.7kg	3-way, 3-speaker, closed 8Ω 160W (music) 86dB/W (1.0m) 37Hz - 30kHz 266 x 451 x 217mm 5.4kg	3-way, 3-speaker, closed 8Ω 120W (music) 86dB/W (1.0m) 40Hz - 30kHz 240 x 422 x 217mm 4.5kg	2-way, 2-speaker, closed 8Ω 80W (music) 86dB/W (1.0m) 42Hz - 22kHz 226 x 355 x 184mm 3.4kg	2-way, 2-speaker, closed 8Ω 60W (music) 89dB/W (1.0m) 53Hz - 22kHz 226 x 355 x 183mm 3.7kg	
<b>CD Players</b>						
Systems X920CD and X900CD are supplied complete with the SLPJ25 CD player. On all other systems, the CD player is optional (choice of either SLPJ45 or SLPJ25). See Compact Disc Player specification chart for details.						
<b>Equalizers</b>						
Equalizers are optional. Any of the three models may be connected to any System (except system X900 or X900CD)						
Frequency response Total harmonic distortion S/N (DIN) Dimensions (W x H x D) Weight	<b>SH-E75</b> 5Hz - 100kHz (-3dB) 0.003% (1kHz 1V) 98dB (1V) 360 x 91 x 287mm 2.8kg	<b>SH-E60</b> 5Hz - 100kHz (-3dB) 0.005% (1kHz 1V) 98dB (1V) 360 x 91 x 287mm 2.8kg	<b>SH-E50</b> 5Hz - 100kHz (-1dB) 0.005% (1kHz 1V) 98dB (1V) 360 x 78 x 291mm 2.4kg			Equaliser Connection not possible

### CD PLAYERS

Model	Frequency Response	S/N Ratio	Total Harmonic Distortion (kHz,0dB)	Channel Separation (1kHz)	Headphone Output (32Ω)	Output Voltage (0dB)	Power Supply	Dimensions W×H×D(mm)	Weight (kg)
SL-P120K	4Hz-20kHz ± 0.1dB	106dB	0.0025%	106dB	100mW	2.0V/200Ω	240V 50/60Hz 32W	430×168×380	14.5
SL-P990K	2Hz-20kHz ± 0.2dB	113dB	0.0025%	110dB	60mW	2.5Vrms	110/127/220/240V 50/60Hz 25W	430×129×333	8.1
SL-P770K	2Hz-20kHz ± 0.3dB	112dB	0.003%	110dB	60mW	2.5Vrms	110/127/220/240V 50/60Hz 18W	430×116×333	6.5
SL-P550K/S	2Hz-20kHz ± 0.3dB	105dB	0.004%	98dB	15mW	2.0Vrms	240V 50/60Hz 15W	430×102×330	4.8
SL-P350K/S	2Hz-20kHz ± 0.3dB	103dB	0.005%	96dB	15mW	2.0Vrms	240V 50/60Hz 15W	430×91×274	3.7
SL-P250K	2Hz-20kHz ± 0.5dB	96dB	0.005%		15mW	2.0Vrms	240V 50/60Hz 11W	430×80×247	3.1
SL-P200K	2Hz-20kHz ± 0.5dB	96dB	0.006%		15mW	2.0Vrms	240V 50/60Hz 11W	430×80×240	3.1
SL-P600CK	2Hz-20kHz ± 0.5dB	96dB	0.006%		15mW	2.0Vrms	240V 50/60Hz 15W	430×103×315	5.8
SL-PJ45K	2Hz-20kHz ± 0.3dB	96dB	0.004%		15mW	2.0Vrms	240V 50Hz 16W	360×90×270	3.6
SL-PJ25K	2Hz-20kHz ± 0.5dB	96dB	0.006%			2.0Vrms	240V 50Hz 16W	360×90×270	3.2
SL-PJ20K	4Hz-20kHz ± 0.5dB	96dB	0.006%	96dB		2.0V/550Ω	240V 50/60Hz 10W	315×76×240	3.0
SL-XPSK	4Hz-20kHz ± 0.5dB	90dB	0.006%	90dB	30mW	1.8V/1kΩ	Rechargeable or 240V 50/60Hz 10W	126×22.9×126	0.48

### AMPLIFIERS

Model	Continuous Power Output Per Channel		Input Sensitivity		Digital Inputs	Frequency Response		Signal/Noise Ratio		Power Supply	Dimensions W×H×D (mm)	Weight (kg)
	20Hz-20kHz (8Ω)	1kHz DIN (8Ω)	Phono	Tuner/CD/Aux/Tape		Phono	Tuner/CD/Aux/Tape	Phono	Tuner/CD/Aux/Tape			
SE-A 50K Power Amplifier	115W/THD 0.002% 150W (4Ω)/THD 0.005% 300W BTL (Mono)	125W 180W (4Ω) THD 0.0009% 360W BTL (Mono)	1V/47kΩ		—	20Hz-20kHz (-0.1dB) 0.8Hz-150kHz (-3dB)		106dB (116dB IHFA)		110/127/220/240V 50/60Hz 900W	430×161×408	16.6
SU-A 60K Pre-Amplifier	0.002% THD (MM) 0.003% THD (MC) 0.0025% THD (Digital Section)		MM 2.5mV/47kΩ MC 170 μV/220Ω	150mV/18kΩ (Direct in 1V/47kΩ)	2×Optical 1×Co-axial 1×Tape (Opt or Co-ax)	RIAA ±0.2dB 20Hz-20kHz (-0.1dB) 0.8Hz-150kHz (-3dB) 2Hz-20kHz/0.3dB (Digital Section)	MM 79dB (88dB IHFA) MC 70dB (72dB IHFA) 111dB (Digital Section)	100dB (106dB IHFA)	110/127/220/240V 50/60Hz 20W	430×103×290	4.9	
SU-V900K	100W/THD 0.002% 150W (4Ω)	115W/THD 0.0007% 150W (4Ω)	MM 2.5mV/47kΩ MC 170 μV/220Ω	150mV/18kΩ (Direct in 1V/47kΩ)	1×Optical 1×Co-axial	RIAA ±0.2dB 20Hz-20kHz (-0.1dB) 0.8Hz-150kHz (-3dB) 2Hz-20kHz/0.3dB (Digital Section)	MM 79dB (88dB IHFA) MC 70dB (72dB IHFA) 110dB (Digital Section)	100dB (106dB IHFA)	110/127/220/240V 50/60Hz 785W	430×158×397	13.2	
SU-V 650K	90W/THD 0.002% 140W (4Ω)/THD 0.005%	100W/THD 0.0009% 140W (4Ω)/THD 0.005%	MM 2.5mV/47kΩ MC 170 μV/220Ω	150mV/22kΩ	—	RIAA ±0.8dB 20Hz-20kHz (-0.2dB) 3Hz-100kHz (-3dB)	MM 78dB (86dB IHFA) MC 65dB (65dB IHFA)	92dB (100dB IHFA)	240V 50/60Hz 670W	430×159×363	10.1	
SU-V 550K	65W/THD 0.002% 105W (4Ω)/THD 0.005%	75W/THD 0.0009% 105W (4Ω)/THD 0.005%	MM 2.5mV/47kΩ MC 170 μV/220Ω	150mV/22kΩ	—	RIAA ±0.8dB 20Hz-20kHz (-0.2dB) 3Hz-100kHz (-3dB)	MM 77dB (83dB IHFA) MC 64dB (65dB IHFA)	91dB (100dB IHFA)	240V 50/60Hz 520W	430×126×311	7.9	
SU-V 450K/S	50W/THD 0.003% 90W (4Ω)/THD 0.005%	65W/THD 0.0009% 90W (4Ω)/THD 0.005%	MM 2.5mV/47kΩ	150mV/22kΩ	—	RIAA ±0.8dB 20Hz-20kHz (-0.2dB) 3Hz-100kHz (-3dB)	MM 76dB (81dB IHFA)	91dB (100dB IHFA)	240V 50/60Hz 450W	430×126×311	6.9	
SU-800K	40W/THD 0.06% 60W	60W	MM 2.5mV/47kΩ	150mV/22kΩ	—	RIAA ±0.8dB 5Hz-90kHz (-3dB)	MM 71dB (72dB IHFA)	90dB (98dB IHFA)	240V 50/60Hz 340W	430×97×240	5.8	
SU-600K/S	30W/THD 0.07% 50W	50W	MM 2.5mV/47kΩ	150mV/22kΩ	—	RIAA ±0.8dB 5Hz-70kHz (-3dB)	MM 71dB (72dB IHFA)	90dB (98dB IHFA)	240V 50/60Hz 250W	430×97×240	5.0	

### RECEIVERS

Model	Output Power (Din, 1kHz) Both Channels Driven	THD (Half Power 1kHz)	Input Sensitivity (Phono) (CD/Aux/Tape)	S/N Ratio (Phono) (CD/Aux/Tape)	Frequency Response (Phono) (CD/Aux/Tape)	Tuner Sensitivity			Power Supply	Dimensions W×H×D (mm)	Weight (kg)
						FM	MW	LW			
SA-R230 LX	50W×2 (8Ω)	0.03%	3.0mV/47kΩ 200mV/22kΩ	70dB (80dB IHFA) 80dB (90dB IHFA)	RIAA ±0.8dB 7Hz-70kHz (-3dB)	1.5μV	20μV	45μV	240V 50/60Hz 330W	430×102×290	6.0
SA-160 LX	40W×2 (8Ω)	0.07%	3.0mV/47kΩ 200mV/22kΩ	68dB (71dB IHFA) 70dB (85dB IHFA)	RIAA ±0.8dB 10Hz-70kHz (-3dB)	1.5μV	20μV	45μV	240V 50/60Hz 250W	430×97×288	5.1

### TUNERS

Model	FM Sensitivity (S/N 30dB/15Ω)	THD		FM S/N Ratio		FM Frequency Response	Alternate Channel Selectivity (L400kHz)	FM Stereo Separation (1kHz)	AM Sensitivity (S/N 20dB)		AM Selectivity (1.5kHz)		Output Voltage	Power Supply	Dimensions W×H×D (mm)	Weight (kg)
		Mono	Stereo	Mono	Stereo				MW	LW	MW	LW				
ST-G 90 LX	1.3μV	0.015%	0.02%	80dB (86dB IHF)	74dB (79dB IHF)	4Hz-15kHz +0.5dB, -0.5dB	55dB	60dB	20μV	50μV	50dB	50dB	0.3V	240V 50/60Hz 9.5W	430×94×288	3.5
ST-G 70 LX	1.3μV	0.015%	0.02%	72dB (80dB IHF)	66dB (73dB IHF)	4Hz-18kHz +0.5dB, -1.5dB	55dB	60dB	20μV	50μV	50dB	50dB	0.3V	240V 50/60Hz 9.5W	430×94×288	3.5
ST-G 450 LX	1.3μV	0.005%	0.1%	72dB (80dB IHF)	65dB (73dB IHF)	4Hz-18kHz +0.5dB, -1.5dB	65dB	50dB	20μV	50μV	50dB	50dB	0.3V	240V 50/60Hz 9W	430×94×241	2.2
ST-600 LX/S	1.3μV	0.015%	0.3%	70dB (78dB IHF)	65dB (70dB IHF)	20Hz-15kHz +0.5dB, -1.5dB	65dB	40dB	20μV	50μV	50dB	50dB	0.3V	240V 50/60Hz 9W	430×53×220	2.0

### MICROPHONES

Model	RP-VK15	RP-VK10	RP-VK5	RP-VK3
Output impedance (1kHz)	600Ω	600Ω	600Ω	600Ω
Sensitivity (0dB = 1V/bar, 1kHz)	-73dB	-73dB	-76dB	-76dB
Frequency response	40Hz-18kHz	50Hz-13kHz	50Hz-12kHz	80Hz-10kHz
Weight (without cable)	310g	280g	210g	160g
Cable length	5m	5m	4m	3m

### HEADPHONES

Model	EAH-X250	EAH-X15	EAH-X10	EAH-X8	EAH-01	EAH-270
Frequency Response	2-30000Hz	2-25000Hz	10-25000Hz	15-25000Hz	20-20000Hz	8-25000Hz
Impedance (1kHz)	55Ω	45Ω	45Ω	45Ω	40Ω	28Ω
Max. input Power	100mW	500mW	500mW	300mW	100mW	50mW
Sensitivity	106dB/mW	106dB/mW	104dB/mW	102dB/mW	98dB/mW	106dB/mW
Weight (without cord)	300g	125g	110g	85g	35g	11g

## GRAPHIC EQUALISERS

Model	Total Harmonic Distortion (20Hz-20kHz)	S/N Ratio	Frequency Response	Input Sensitivity and Impedance	Channel Separation (1kHz)	Band Level Controls	Centre Frequencies (Hz)	Power Supply	Dimensions W x H x D (mm)	Weight (kg)
SH-8075K	0.001%	104dB (1V) 114dB (IHF)	5Hz-100kHz (-1dB)	1V/47kΩ	70dB	±12dB Third Octave	16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.1k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k, 25k	110/120 220/240V 50/60Hz 34W	430 x 153 x 330	6.6
SH-8066K	0.003%	101dB (1V)	10Hz-50kHz (-1dB)	150mV/22kΩ	70dB	±12dB	25, 40, 63, 100, 160, 250, 500, 1k, 2k, 4k, 8k, 16k	240V 50/60Hz 34W	430 x 119 x 272	3.8
SH-8058K/S	0.003%	100dB (1V) 107dB (IHF)	5Hz-100kHz (-3dB)	1V/47kΩ	60dB	±12dB	63, 160, 400, 1k, 2.5k, 6.3k, 16k	240V 50/60Hz 11W	430 x 103 x 229	2.8
SH-8055K	0.003%	102dB (1V) 110dB (IHF)	5Hz-100kHz (-1dB)	1V/47kΩ	70dB	±12dB	25, 40, 63, 100, 160, 250, 500, 1k, 2k, 4k, 8k, 16k	240V 50/60Hz 15W	430 x 108 x 272	4.3
SH-8045K	0.005%	100dB (1V) 110dB (IHF)	5Hz-100kHz (-1dB)	1V/47kΩ	70dB	±12dB/±3dB	16, 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 32k	240V 50/60Hz 8W	430 x 53 x 235	2.6
SH-8038K	0.005%	100dB (1V) 110dB (IHF)	5Hz-100kHz (-3dB)	1V/33kΩ	60dB	±12dB	63, 160, 400, 1k, 2.5k, 6.3k, 16k	240V 50/60Hz 7W	430 x 75 x 193	1.85

## CASSETTE DECKS

Model	Wow & Flutter (WRMS)	Frequency Response (DIN)			Signal/Noise Ratio (Chrome)				Input Sensitivity		Output Level		Bias Frequency	Motors	Heads	Power Supply	Dimensions W x H x D (mm)	Weight (kg)
		Metal	Chrome	Normal	dBS (A WTD)	Dolby C (CCR)	Dolby B (CCR)	NR Out (A WTD)	Mic	Line	H/Ph	Line						
RS-8905 K	0.04%	30Hz-21kHz	30Hz-20kHz	30Hz-19kHz	92dB	75dB	67dB	57dB	—	60mV/47kΩ	25mV/8Ω	400mV/2.2kΩ	85kHz	2	Mx Rec + 1 Mx Play × 1 Double gap ferrite erase × 1	110/127 220/240V 50/60Hz 25W	430 x 110 x 285	5.0
RS-8705 K	0.05%	30Hz-20kHz	30Hz-19kHz	30Hz-18kHz	—	75dB	67dB	57dB	—	60mV/47kΩ	80mV/8Ω	400mV/2.2kΩ	85kHz	2	Mx Rec + 1 Mx Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 25W	430 x 110 x 285	4.4
RS-8605 K	0.08%	30Hz-18kHz	30Hz-17kHz	30Hz-16kHz	92dB	74dB	66dB	56dB	0.25mV/400Ω-10kΩ	60mV/47kΩ	80mV/8Ω	400mV/3.0kΩ	80kHz	2	Mx Rec/Play × 1 Double gap ferrite erase × 1	110/127 220/240V 50/60Hz 20W	430 x 115 x 287	4.3
RS-8505 K	0.08%	30Hz-17kHz	30Hz-16kHz	30Hz-15kHz	—	74dB	66dB	56dB	0.25mV/400Ω-10kΩ	60mV/47kΩ	80mV/8Ω	400mV/3.0kΩ	80kHz	2	Mx Rec/Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 20W	430 x 115 x 287	4.3
RS-8355 K/S	0.08%	30Hz-17kHz	30Hz-16kHz	30Hz-15kHz	—	74dB	66dB	56dB	0.25mV/400Ω-10kΩ	60mV/47kΩ	80mV/8Ω	400mV/3.0kΩ	80kHz	2	Mx Rec/Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 15W	430 x 115 x 287	4.3
RS-8205 K	0.08%	30Hz-15kHz	30Hz-15kHz	30Hz-15kHz	—	74dB	66dB	56dB	0.25mV/400Ω-10kΩ	60mV/47kΩ	85mV/8Ω	400mV/3.2kΩ	80kHz	1	Mx Rec/Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 9W	430 x 115 x 236	3.0
RS-180 RK	0.08%	40Hz-17kHz	40Hz-16kHz	40Hz-15kHz	92dB	75dB	67dB	57dB	—	60mV/47kΩ	80mV/8Ω	400mV/1.5kΩ	90kHz	2	Mx Rec/Play × 2 Double gap ferrite erase × 2	110/127 220/240V 50/60Hz 25W	430 x 111 x 275	5.4
RS-155 RK	0.08%	30Hz-17kHz	30Hz-16kHz	30Hz-15kHz	92dB	74dB	66dB	56dB	—	60mV/47kΩ	80mV/8Ω	400mV/3.0kΩ	77kHz	4	Mx Rec/Play × 1 Mx Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 21W	430 x 119 x 274	5.2
RS-1330 RK	0.07%	30Hz-15kHz	30Hz-15kHz	30Hz-15kHz	—	74dB	66dB	56dB	—	60mV/47kΩ	30mV/8Ω	400mV/3.2kΩ	80kHz	4	Mx Rec/Play × 1 Mx Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 14W	430 x 125 x 235	4.5
RS-1230 K/S	0.07%	30Hz-15kHz	30Hz-15kHz	30Hz-15kHz	—	74dB	66dB	56dB	—	60mV/47kΩ	30mV/8Ω	400mV/3.2kΩ	80kHz	4	Mx Rec/Play × 1 Mx Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 14W	430 x 125 x 235	4.5
RS-1130 K	0.08%	30Hz-15kHz	30Hz-15kHz	30Hz-15kHz	—	—	66dB	56dB	—	60mV/47kΩ	30mV/8Ω	400mV/3.2kΩ	80kHz	4	Mx Rec/Play × 1 Mx Play × 1 Double gap ferrite erase × 1	240V 50/60Hz 18W	430 x 120 x 227	3.8
RS-8608 RK	0.08%	30Hz-18kHz	30Hz-17kHz	30Hz-16kHz	92dB	74dB	66dB	56dB	0.25mV/400Ω-10kΩ	60mV/47kΩ	30mV/8Ω	400mV/3.0kΩ	80kHz	2	Mx Rec/Play × 1 Double gap ferrite erase × 1	110/127 220/240V 50/60Hz 22W	430 x 115 x 287	4.3

## TURNTABLES

Model	Drive	Motor	Pitch Control Range	Wow & Flutter	Rumble	Cartridge Frequency Response	Power Supply	Dimensions W x H x D (mm)	Weight (kg)
SL-1200/1210 MK II	Quartz DD	Ultra Low Speed Brushless DD	28%	0.0025% (WRMS) ±0.0035% (Peak)	-78dB (DIN B) -56dB (DIN A)	10Hz-40kHz EPC-P305	110/120 220 240V 50/60Hz 13.5W	453 x 162 x 360	11kg
SL-0033 K	Quartz DD	Ultra Low Speed Brushless DD	—	0.0025% (WRMS) ±0.0035% (Peak)	-78dB (DIN B) -56dB (DIN A)	10Hz-40kHz EPC-P305	240V 50/60Hz 8W	430 x 100 x 375	4.5
SL-0033 K	Phase Locked DD	Ultra Low Speed Brushless DD	—	0.0025% (WRMS) ±0.0035% (Peak)	-78dB (DIN B) -56dB (DIN A)	10Hz-35kHz EPC-P305	240V 50/60Hz 8W	430 x 100 x 375	4.5
SL-L3 K	Quartz DD Fully Auto	Ultra Low Speed Brushless DD	—	0.025% (WRMS) ±0.035% (Peak)	-78dB (DIN B) -56dB (DIN A)	10Hz-50kHz EPC-P33	110/120 220 240V 50/60Hz 16W	430 x 90 x 350	5.2
SL-L1 K	Direct Drive Fully Auto	Ultra Low Speed Brushless DD	—	0.025% (WRMS) ±0.035% (Peak)	-78dB (DIN B) -56dB (DIN A)	10Hz-35kHz EPC-P30	240V 50Hz 10W	430 x 90 x 350	4.8
SL-L20 K	Belt Drive Fully Auto	DC Servo	—	0.045% (WRMS) ±0.06% (Peak)	-70dB (DIN B)	10Hz-35kHz EPC-P305	240V 50/60Hz 8W	430 x 96 x 351	3.7
SL-8022 K/S	Belt Drive Semi-Auto	FG Servo DC	26%	0.045% (WRMS) ±0.06% (Peak)	-70dB (DIN B)	10Hz-30kHz EPC-P245	240V 50/60Hz 8W	430 x 93 x 375	3.6
SL-8029 K	Belt Drive Semi-Auto	DC Servo	—	0.045% (WRMS) ±0.06% (Peak)	-70dB (DIN B)	10Hz-30kHz EPC-P24	240V 50/60Hz 1.5W	430 x 93 x 375	3.6

## SPEAKERS

Model	Configuration	Power handling music (DIN)	Frequency range (-18dB)	Dimensions (each) W x H x D (mm)	Weight (each) (kg)
SB-RX50	2 way, 2 driver, coaxial	160W (80W) 6Ω	30Hz-48kHz	300 x 480 x 282	16.5
SB-C450 K	3 way, 3 driver, closed	200W (100W) 6Ω	30Hz-35kHz	295 x 505 x 257	10.5
SB-C350 K/M	3 way, 3 driver, closed	140W (70W) 6Ω	36Hz-33kHz	280 x 495 x 208	7.4
SB-C250 K/M	2 way, 2 driver, closed	120W (60W) 6Ω	37Hz-33kHz	235 x 365 x 203	5.3
SB-F2 MK2	2 way, 2 driver, closed Aluminium die-cast	100W (50W) 4Ω/8Ω switchable	45Hz-35kHz	157 x 225 x 172	4.7
SB-F1 MK2	2 way, 2 driver, closed Aluminium die-cast	80W (40W) 4Ω/8Ω switchable	48Hz-35kHz	134 x 219 x 136	2.9
SB-S30	Full range, Surround Sound, Rear speaker	50W (25W) 8Ω	For Rear Channel Ambience only	150mm Diameter	0.7

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