



Technics

High Fidelity

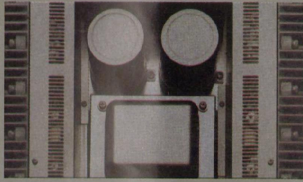
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Stereo Amplifiers

The "art" of amplifier design at Technics actually can be reduced to one overriding concept: the creation of a better product, an amplifier which will give the utmost performance under all conditions. This concept — though perhaps not entirely revolutionary itself — has certainly led our engineers down some interesting roads, and has resulted in some of today's most acclaimed basic technology. New circuitry, for example. Such as independent power



supplies for each stage, and with constant-voltage/constant-current circuitry for high stability. Direct-coupling is yet another example. And we have made even further improvements by using differential amplification. Specific examples are virtually endless. But the number of improvements is perhaps not so important as the spirit behind them: to continue to be in the fore. It's a position to which we've become so accustomed that we're not going to give it up!

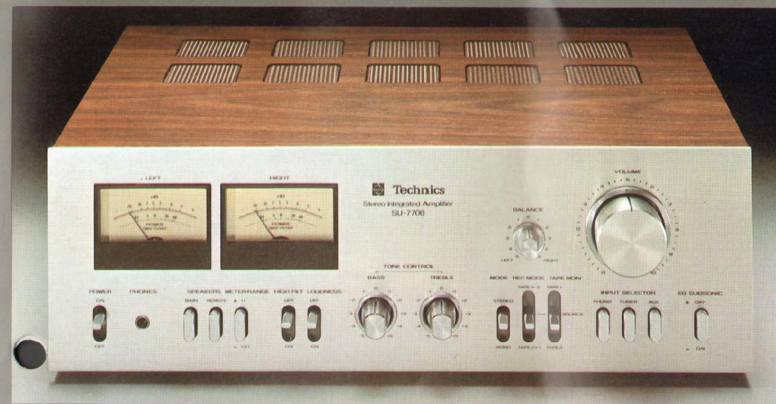


SE-9600 Stereo Power Amplifier

Designed to perfectly match the SU-9600 in performance and style. Every feature the professional or highly-advanced amateur could want, including amazingly low distortion even at maximum output, full 110W/channel output (RMS, both channels, into 8 Ω), a wide power bandwidth (5 Hz to 60 kHz), high-capacity voltage-stabilized power supplies to eliminate transient non-linearities, and OCL circuitry. Peak level meters with very fast response show output precisely in power and dB. Triple protection systems for complete protection in all conditions. Special diecast aluminium fins with heat-warning colour change.

Continuous Power (both ch. driven): (1 kHz 4 Ω, 8 Ω); 2 × 165W, 2 × 110W, 20Hz ~ 20kHz (4 Ω, 8 Ω); 2 × 165W, 2 × 110W
Total harmonic distortion: (5Hz ~ 60kHz): 0.08%
Intermodulation distortion: (60Hz, 7kHz = 4:1, SMPTE): 0.08%
Power bandwidth: (both ch. driven, 8 Ω); 5Hz ~ 60kHz, -3dB
Frequency response: 5Hz ~ 150kHz, +0, -3dB
S/N ratio (rated power): 110dB

Residual hum & noise: 0.3 mV
Damping factor: 50, 5, 1.5, 0.5 (4 Ω), 100, 10, 3, 1 (8 Ω)
Load impedance: MAIN or REMOTE: 4 ~ 16 Ω, MAIN plus REMOTE: 8 ~ 16 Ω
Input sensitivity & impedance: 1V/40k Ω
Power consumption: 295W
Power supply: AC 110/120/220/240V, 50/60Hz
Dimensions (W × H × D): 450 × 193 × 426 mm
Weight: 23.6 kg



SU-7700 Stereo Integrated Amplifier

A superb combination of performance results and luxurious styling. Performance means, for example, 50W/channel (RMS, both channels driven, into 8 Ω), from 20Hz to 20kHz, and with total harmonic distortion not exceeding 0.08%. Special subsonic equaliser filter in phono equaliser filters out

inaudible low-frequency signals for reduced rumble. Current-mirror loading assures higher operating current without corresponding noise. S/N ratio is Phono 63 dB, Aux 83 dB (DIN). Connections for 2 decks, with dubbing in either direction.

Amplifier section
Continuous power (both ch. driven): 1kHz (4 Ω, 8 Ω); 2 × 70W, 2 × 53W, 20Hz ~ 20kHz (4 Ω, 8 Ω); 2 × 60W, 2 × 50W
Total harmonic distortion (rated power): at 40Hz ~ 16kHz, (4 Ω); 0.08%
Intermodulation distortion (rated power): at 250Hz: 8,000Hz = 4:1, (4 Ω); 0.08%
Power bandwidth (both ch. driven at 4 Ω): 8Hz ~ 55kHz, -3dB
Frequency response: 5Hz ~ 80kHz, -3dB
S/N ratio: rated power (Phono): 63dB, (Aux): 83dB
Damping factor (4 Ω, 8 Ω): 25.50
Input sensitivity & impedance: Phono: 2.5mV/47k Ω Tuner, AUX: 150mV/47k Ω
Phono maximum input voltage (1kHz, RMS): 150mV
Tone control: Bass: 50Hz, ±12dB
Treble: 20kHz, ±12dB
Filters: Low: 30Hz, -12dB/oct. High: 8kHz, -6dB/oct.
General specifications
Power consumption: 450W
Power supply: 110/120/220/240V
Dimensions (W × H × D): 410 × 139 × 334 mm
Weight: 9.7 kg



SU-7300 Stereo Integrated Amplifier

With the performance of separate power and pre-amplifiers, this model features 41W/channel (RMS, both channels driven, into 8 Ω), output from 20 Hz to 20 kHz, and with no more than 0.08% total harmonic distortion.

S/N is phono 63 dB, Aux 83 dB (DIN) at 2.5 mV. Current-mirror loading in differential amplifier stages. Dubbing for 2 tape decks in either direction. 41-step volume, loudness switch, direct-readout power meters.

Amplifier section
Continuous power (both ch. driven): 1kHz (4 Ω, 8 Ω); 2 × 55W, 2 × 43W, 20Hz ~ 20kHz (4 Ω, 8 Ω); 2 × 48W, 2 × 41W
Total harmonic distortion (rated power): at 40Hz ~ 16kHz, (4 Ω); 0.08%
Intermodulation distortion (rated power): at 250Hz: 8,000Hz = 4:1, (4 Ω); 0.08%
Power bandwidth (both ch. driven at 4 Ω): 8Hz ~ 55kHz, -3dB
Frequency response: 7Hz ~ 80kHz, -3dB
S/N ratio: rated power (Phono): 63dB, (Aux): 83dB
Damping factor: (4 Ω, 8 Ω); 20, 40
Input sensitivity & impedance: Phono: 2.5mV/47k Ω
Tuner, AUX: 150mV/47k Ω
Tape deck (PLAYBACK): 180mV/47k Ω
Phono maximum input voltage (1kHz, RMS): 150mV
Tone control: Bass: 50Hz, ±12dB
Treble: 20kHz, ±12dB
Filters: High: 8kHz, -6dB/oct.
Output voltage: Tape deck (REC OUT): 150mV (Tape 1, 2)
Tape deck (REC/PLAY output): 30mV/82k Ω
General specifications
Power consumption: 400W
Power supply: 110/120/220/240V
Dimensions (W × H × D): 410 × 139 × 334 mm
Weight: 8.9 kg



SU-9600 Stereo Pre-Amplifier

This superb Pre-Amplifier provides a completely new standard of performance to the audio industry. Designed to provide even the professional user with such features as a high input-level tolerance, with maximum allowable input of 1350 mV RMS at 1 kHz, high voltage supply (160V) to final equaliser stage, triple phono 1 impedance setting, fixed and variable phono sensitivities.

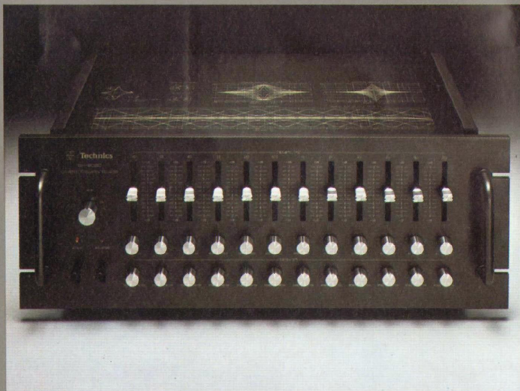
Output Voltage & Impedance: rated: 1V/600 Ω , max.: 12V/600 Ω
Input Sensitivity & Impedance: PHONO1: 2mV/25.5, 100k Ω , PHONO2: 1~3mV/25.5, 100k Ω , TUNER, AUX 1,2: 100mV/50k Ω
Phono Max. Input Voltage: at 2mV: 900mV (1 kHz, RMS), at 1~3mV: 450~1,350mV (1kHz, RMS)
Total Harmonic Distortion: 0.02%
Intermodulation Distortion: 0.02%
S/N Ratio (rated power): PHONO 1: 73dB, PHONO 2: 69~76dB, TUNER, AUX 1, 2: 95 dB
Frequency Response: PHONO 1, 2: RIAA Standard Curve ± 0.3 dB, AUX, 2Hz~100kHz, ± 0 , -3 dB
Tape Monitor 1,2: PLAYBACK: 100mV/50k Ω
Turnover Frequency: BASS: 125Hz, 500Hz, TREBLE: 2kHz, 8 kHz
Dimensions (W x H x D): 450 x 173 x 375 mm
Weight: 10.5 kg



SU-8600 Stereo Integrated Amplifier

A high powered amplifier (73 watts RMS per channel into 8 ohms, 20Hz~20kHz, both channels driven) with transient crosstalk and self-transient IM distortion virtually eliminated by 6-stage independent power supplies. A big transformer and two large smoothing capacitors stabilise the power supply. Differential amplification with emitter follower provides 'clean' power and signal quality.

Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 85W, 20Hz~20kHz (4 Ω , 8 Ω): 2 x 80W, 2 x 73W
Total harmonic distortion (rated power): at 40Hz~16kHz, (4 Ω): 0.08%
Intermodulation distortion (rated power): at 250Hz: 8,000Hz = 4:1, (4 Ω): 0.08%
Power bandwidth (both ch. driven at 4 Ω): 5Hz~50kHz, -3dB
Frequency response: 20Hz~20kHz, ± 0.3 dB
S/N ratio: rated power (Phono 1, 2), (Aux): 60 dB
Input sensitivity & impedance: Main in: 1V/47k Ω , Phono: 2mV/47k Ω , Tuner, AUX, Tape deck (PLAYBACK): 150mV/47k Ω
Phono maximum input voltage (1kHz, RMS): 200mV
Power consumption: 700W
Dimensions (W x H x D): 450 x 173 x 352 mm
Weight: 12.7 kg



SH-9090 Universal Frequency Equaliser

For every frequency equalisation task in any field of audio engineering. Free control of response curve in 12 bands (10 Hz to 32 kHz). In/out switch for instant comparison. Center frequency of each band variable one octave up or down. Continuously variable bandwidth ("Q") for each band. Master volume control. Frequency response curves located on top panel for control setting convenience. (2 units necessary for stereo use.)

Output voltage/output impedance: Rated (1kHz): 1V/500 Ω
Center-frequency controls: From 1 octave above to 1 octave below the standard frequency (12 divisions)
Bandwidth controls (Q): 0.7~7 (12 divisions)
Power supply: 110/120/220/240V
Power consumption: 40W
Dimensions (W x H x D): 450 x 173 x 375 mm
Weight: 9.2 kg
Input sensitivity/input impedance: (1kHz): 1V/50k Ω
Frequency response: 3Hz~80kHz, ± 0 dB, -3 dB
S/N (IHF,A) Signal=1V: 90 dB
Master level controls: ± 6 dB
Band-level controls: +12dB ~ -12dB (12 divisions)



SU-3500 Stereo Integrated Amplifier

A fine amplifier with an abundance of super-clean power with very low distortion. 41 watts RMS per channel into 8 ohms, with power supply stabilised under all conditions. Direct-coupled OCL design throughout. Wide frequency response and power bandwidth. High and low filters. Professional-type step tone controls with defeat. Provision for main and remote speakers. Two tape monitors.

Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 55W, 2 x 43W, 20Hz~20kHz (4 Ω , 8 Ω): 2 x 47W, 2 x 41W
Total harmonic distortion (rated power): at 40Hz~16kHz, (4 Ω): 0.08%
Intermodulation distortion (rated power): at 250Hz: 8,000Hz = 4:1, (4 Ω): 0.08%
Power bandwidth (both ch. driven at 4 Ω): 5Hz~50kHz, -3 dB
Frequency response: 5Hz~100kHz, ± 0 , -3 dB
S/N ratio: rated power (Phono): 60dB, (Aux): 80dB
Phono maximum input voltage (1kHz, RMS): 510mV
Power consumption: 380W
Dimensions (W x H x D): 410 x 140 x 340 mm
Weight: 10.2kg



SU-7600 Stereo Integrated Amplifier

With 41 watts RMS per channel driven into 8ohms, THD is only 0.2% right across the 20Hz~20kHz spectrum. Stabilised power supply, using extra-large 10,000 μ F smoothing capacitors, can easily handle peak volumes with minimal transient crossmodulation. Direct-coupled OCL design with emitter follower.

Continuous power (both ch. driven): 1kHz(4 Ω , 8 Ω): 2 x 55W, 2 x 43W, 20Hz~20kHz, (4 Ω , 8 Ω): 2 x 50W, 2 x 41W
Total harmonic distortion (rated power): at 40Hz~16kHz(4 Ω): 0.2%
Intermodulation distortion (rated power): at 250Hz:8,000Hz=4:1 (4 Ω), 0.2%
Power bandwidth: (both ch. driven at 4 Ω): 5Hz~65kHz, -3dB
S/N ratio: rated power (Phono): 60dB, (Aux): 80dB, 50mW
power output: (Phono) 55dB, (Aux): 58dB
Damping factor: (4 Ω , 8 Ω): 20, 40
Input sensitivity and impedance: (Phono): 2mV/47k Ω , Tuner, AUX: 150mV/47k Ω , Tape deck (PLAYBACK): 150mV/47k Ω
Phono maximum input voltage: (1 kHz, RMS) 120 mV
Power consumption: 350W
Power supply: 110~240V
Dimensions (W x H x D): 410 x 140 x 332 mm
Weight: 7.5 kg



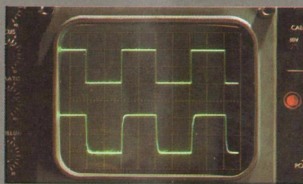
SU-7200 Stereo Integrated Amplifier

20 watts RMS per channel driven into 8 ohms, 40 Hz~20 kHz has only 0.8% THD. A wide dynamic range results from the new low-noise 3-stage direct-coupled phono equaliser IC, giving S/N ratio of 60 dB. Direct-coupled OCL design throughout, with first-stage differential amplification. Smooth negative feedback tone controls. Stabilised power supply, with efficient heat sink ventilation.

Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 24W, 2 x 22W, 40Hz~20kHz (4 Ω , 8 Ω): 2 x 21W, 2 x 20W
Total harmonic distortion (rated power): at 40Hz~16kHz, (4 Ω): 0.8%
Intermodulation distortion (rated power): at 250Hz: 8,000Hz = 4:1, (4 Ω): 0.8%
Power bandwidth (both ch. driven at 4 Ω): 5Hz~100kHz, -3dB
Frequency response: 10Hz~30kHz, ± 0 dB, -3dB
S/N ratio: rated power (Phono): 60dB, (Aux): 80dB
Phono maximum input voltage (1kHz, RMS): 80mV
General specifications
Power consumption: 200W
Dimensions (W x H x D): 410 x 140 x 332 mm
Weight: 5.8 kg

FM/AM Stereo Tuners

Tuner performance is, unfortunately, a field to which some manufacturers devote less than full dedication. We at Technics, however, fully realize the vital importance of a tuner within the overall system of audio components. The fact that we've given it a great deal of careful attention is well demonstrated by our own unique engineering research and the fruits of these programmes: such as Flat-Group-Delay filters in the IF



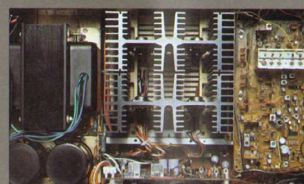
stage to eliminate time-delay differences in the circuitry, which result in a greater clarity and definition of sound. Or the Phase-Locked-Loop IC in the multiplex circuitry for superb separation yet with minimized distortion.

And, of course, all Technics-Tuners include 4-pole dual-gate MOS FETs for much improved sensitivity and selectivity. Engineering, then, has made Technics tuners truly distinctive.

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FM/AM Stereo Receivers

The engineering of a really good receiver is the delight of any dedicated technician here at Technics. Because it offers a challenge to provide a really winning combination of value and performance. The challenge is, of course, to provide the greatest possible performance within established cost limits. And this is where our engineers truly outdo themselves, because — as a glance at our receiver line-up will show — these models have



most often come in with performance greater than we originally thought practical. Designed basically with the same performance and functions as our superb line of separate tuners and amplifiers, and certainly with the wealth of technology developed for individual components, they are collectively a line of receivers which stand far and wide above even the separate components of many another brand.



ST-9600 FM/AM Stereo Tuner

The ST-9600 provides true waveform fidelity for the discriminating listener. Flat frequency response is extended into the 18 kHz range by the use of our exclusive 19 kHz pilot tone cancel circuit. Also used are our Flat Group Delay ceramic filters which eliminate time delay differences in the IF stage, and provide cleaner sound. Critical front end circuitry includes an 8-ganged tuning capacitor for FM/AM bands and a 4 pole dual gate MOS FET. Double PLL (Phase Locked Loop) circuitry produces excellent channel separation. Other features include direct recording of FM to tape, a built-in pink noise generator for accurate level adjustments during taping, and precise servo-assisted tuning.

FM tuner section
Antenna terminals: 300 Ω (balanced), 75 Ω (unbalanced)
Frequency range: 88 ~ 108 MHz
Sensitivity: (S/N 30dB, 300 Ω); 1.8 μ V, (S/N 20dB, 300 Ω); 1.4 μ V, (S/N 30dB, 75 Ω); 0.9 μ V, (S/N 20dB, 75 Ω); 0.7 μ V
S/N ratio: MONO; 75 dB
Frequency response: 20Hz ~ 18kHz, +0.2, -0.8dB
Alternate channel selectivity: 85dB
Capture ratio: 1.0 dB
Total harmonic distortion: 0.15% (mono), 0.25% (stereo)
Image rejection: 95dB
IF rejection: 105dB
Spurious response rejection: 100dB
AM suppression: 55dB
Leak carrier: -65dB

Limiting point: 1.2 μ V
Bandwidth (IF amplifier): 250kHz, (FM demodulator); 820kHz
AM tuner section
Frequency range: 525 ~ 1,605kHz
Sensitivity: 30 μ V
Selectivity: 25dB
Image rejection: 80dB
IF rejection: 85dB
General specifications
Output voltage: (VARIABLE); 0.077 ~ 1.55V, (FIXED); 0.6V
Power consumption: 25W
Power supply (AC): 110 ~ 240V, 50/60Hz
Dimensions: (W \times H \times D) 450 \times 173 \times 362mm
Weight: 8.7 kg



SA-5460 FM/AM Stereo Receiver

High power output (68 W RMS per channel at 8 ohms), with big power transformer and extra-large smoothing capacitors. Ultra-low 0.1% THD. Direct-coupling throughout with a differential amplifier in the first stage. New low-noise flat response phono equaliser IC gives excellent S/N ratio. FM front end uses our MOS FET for high sensitivity and selectivity. Other advanced tuner circuitry includes Flat Group Delay ceramic filters for FM clarity. And an FM MPX circuit with Phase Locked Loop IC for stability and precise separation. Two tape monitors.

Amplifier section
Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω); 2 \times 78W, 2 \times 68W
**20Hz ~ 20kHz (4 Ω , 8 Ω); 2 \times 72W, 2 \times 65W
Total harmonic distortion: (rated power at 40Hz ~ 16kHz, 4 Ω); 0.1%
Power bandwidth: (both channels driven at 4 Ω); 10Hz ~ 40kHz, -3dB
Frequency response: 20Hz ~ 20kHz, \pm 0.5 dB**

S/N ratio (rated power): Phono; 65 dB, Aux; 80 dB
Input sensitivity & impedance: Phono; 2.5mV/47k Ω , AUX; 150mV/35k Ω
Tape monitor: Playback; 180mV/40k Ω (Tape 1), 150mV/35k Ω (Tape 2), Rec. out; 180mV (Tape 1), 150mV (Tape 2), Rec./Play output; 30mV (Tape 1)
Tone control: Bass; 50Hz, \pm 13dB
Treble; 10kHz, \pm 12 dB
FM tuner section
Sensitivity: (S/N 30dB, 300 Ω); 1.8 μ V, (S/N 20dB, 75 Ω); 0.9 μ V
Total harmonic distortion (stereo): (400Hz, 100% modulation); 0.25%
S/N ratio (stereo): (at \pm 40kHz deviation); 54 dB

Frequency response: 20Hz ~ 15kHz, +2 ~ -0.8dB
Selectivity: 70dB
Capture ratio: 1.5dB
Image rejection (98 MHz): 53dB
IF rejection (98 MHz): 80dB
Stereo separation (1kHz): 45dB
Leak carrier: 19kHz; -65dB
38kHz; -75dB
AM tuner section
Sensitivity: 30 μ V, 260 μ V/m
Selectivity: 22dB
General specifications
Power consumption: 500W
Power supply (AC): 220V/240V
Dimensions (W \times H \times D): 500 \times 150 \times 420 mm
Weight: 14 kg



ST-7300 FM/AM Stereo Tuner

A superb tuner for the finest Hi-Fi component system. Featuring flat frequency response from 20 Hz to 15 kHz, with low 0.4% total harmonic distortion rating. S/N of 65 dB (Stereo DIN). Built-in test-signal generator for perfect setting of recording level from FM. Two tuning meters: one zero-centre type for FM, one signal-strength type for FM/AM. PLL FM MPX decoder.

FM tuner section
Frequency range: 88 ~ 108 MHz
Sensitivity: (S/N 30dB, 300 Ω): 2.0 μ V, (S/N 20dB, 75 Ω): 1.0 μ V
S/N ratio: MONO; 69 dB
Frequency response: 20 Hz ~ 15 kHz, ± 1.5 dB
Alternate channel selectivity: 75 dB
Total harmonic distortion: 0.2% (mono)
IF rejection: 82 dB

Leak carrier: -60 dB
FM demodulator: 820 kHz
AM tuner section
Frequency range: 525 ~ 1605 kHz
Sensitivity: 30 μ V
Selectivity: 20 dB
General specifications
Power consumption: 11 W
Dimensions (W x H x D): 410 x 139 x 317 mm
Weight: 5.1 kg



ST-3500 FM/AM Stereo Tuner

A fine tuner with advanced circuitry developed from basic research into waveform fidelity. Circuits include Flat Group Delay ceramic filters eliminating time delay differences in the IF stage for cleaner FM sound. And an FM MPX circuit with a Phase Locked Loop IC for excellent channel separation.

FM tuner section
Sensitivity: 1.7 μ V (S/N 30dB, 300 Ω), 0.6 μ V (S/N 20dB, 75 Ω)
S/N ratio: 75 dB (MONO)
Frequency response: 20 Hz ~ 17 kHz, ± 0.2 ~ -0.8 dB
(CONSTANT)
Alternate channel selectivity: 85 dB
Capture ratio: 1.0 dB
Total harmonic distortion: 0.2% (mono)

Image rejection: 95 dB
IF rejection: 90 dB
Limiting point: 1.0 μ V
Bandwidth: 400 kHz (IF amplifier)
800 kHz (FM demodulator)

AM tuner section
Sensitivity: 15 μ V
Selectivity: 30 dB
General specifications
Dimensions (W x H x D): 410 x 140 x 360 mm
Weight: 7.4 kg



SA-5360 FM/AM Stereo Receiver

A high performance receiver with ample 42 watts RMS per channel (at 8 ohms) power supplied with big power transformer and two large smoothing capacitors. Direct-coupled throughout. New low-noise flat response phono equaliser IC gives very high S/N ratio. Flat Group Delay ceramic filters produce amazing FM clarity.

Amplifier section
Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 47 W, 2 x 42 W, 20 Hz ~ 20 kHz (4 Ω , 8 Ω): 2 x 42 W, 2 x 38 W
Total harmonic distortion (stereo): 0.3%
Power bandwidth: (both channels driven at 4 Ω): 7 Hz ~ 40 kHz, -3 dB
Frequency response: 20 Hz ~ 20 kHz, ± 0.5 dB
S/N ratio (rated power): Phono; 65 dB, AUX; 75 dB
FM tuner section
Sensitivity: (S/N 30dB, 300 Ω): 1.8 μ V, (S/N 20dB, 75 Ω): 0.9 μ V
Total harmonic distortion (stereo): (400 Hz, 100% modulation); 0.3%
S/N ratio (stereo): at ± 40 kHz deviation; 54 dB
Frequency response: 20 Hz ~ 13 kHz ± 1 dB
Selectivity: 70 dB
AM tuner section
Sensitivity: 30 μ V, 300 μ V/m
Selectivity: 22 dB
Dimensions: (W x H x D) 420 x 142 x 355 mm
Weight: 9 kg



SA-5160L FM/MW/LW 3-Band Stereo Receiver

A high performance receiver in a moderate price bracket. Has a generous power supply (26 W RMS per channel at 8 ohms) using a big power transformer and large smoothing capacitors for stability and low 0.5% distortion. The new low-noise flat response phono equaliser IC improves S/N ratio. SA-5160 FM/AM stereo receiver is also available.

Amplifier section
Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 30 W, 2 x 26 W, 30 Hz ~ 20 kHz (4 Ω , 8 Ω): 2 x 26 W, 2 x 25 W
Total harmonic distortion: 0.5%
Power bandwidth: 7 Hz ~ 40 kHz, -3 dB
Frequency response: 20 Hz ~ 20 kHz, ± 0.5 dB
S/N ratio (rated power): Phono; 65 dB, AUX; 75 dB
FM tuner section
Sensitivity: (S/N 30dB, 300 Ω): 1.8 μ V, (S/N 20dB, 75 Ω): 0.9 μ V

Total harmonic distortion (stereo): (400 Hz, 100% modulation); 0.3%
S/N ratio (stereo): at ± 40 kHz deviation; 54 dB
Frequency response: 20 Hz ~ 13 kHz, ± 1 dB
Selectivity: 70 dB
AM tuner section
Sensitivity: 30 μ V, 300 μ V/m (MW), 30 μ V (LW)
Selectivity: 22 dB (MW), 27 dB (LW)
Dimensions: (W x H x D) 420 x 142 x 355 mm
Weight: 7.5 kg

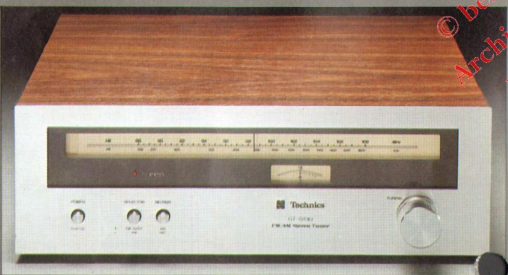


ST-7600 FM/AM Stereo Tuner

Offers superb waveform fidelity with flexible Normal 75 dB or Narrow 90 dB selectivity. Sensitivity is a superb 1.0 μ V. Stable front end uses two FETs. Advanced circuitry includes Flat Group Delay ceramic filters for waveform fidelity. And a Phase Locked Loop MPX circuit providing a combination of stability, good channel separation and low distortion. Special Tchebycheff-type filter keeps frequency response flat.

FM tuner section
Antenna terminals: 300 Ω (balanced), 75 Ω (unbalanced)
Frequency range: 88 ~ 108 MHz
Sensitivity: (S/N 20dB, 75 Ω): 0.7 μ V
S/N ratio: MONO; 68 dB
Frequency response: 20 Hz ~ 15 kHz, ± 0.2 , -0.8 dB
Total harmonic distortion: 0.2% (mono), 0.4% (stereo)

Stereo separation: 45 dB (1 kHz)
AM tuner section
Frequency range: 525 ~ 1,605 kHz
Sensitivity: 30 μ V
Selectivity: 25 dB
General specifications
Power consumption: 13 W
Dimensions (W x H x D): 410 x 140 x 352 mm
Weight: 4.9 kg



ST-7200 FM/AM Stereo Tuner

Features excellent waveform fidelity, with very high 1.0 μ V sensitivity. The FM front end employs 4-pole dual-gate junction type FET for stability and sensitivity, and excellent selectivity combined with top audio quality. Advanced circuitry includes Flat Group Delay ceramic filters in the IF stage for FM clarity. And Phase Locked Loop MPX IC with low-pass filter for good separation.

FM tuner section
Sensitivity: (S/N 30dB, 300 Ω): 2.0 μ V, (S/N 20dB, 75 Ω): 0.7 μ V
S/N ratio: (MONO); 68 dB
Frequency response: 20 Hz ~ 15 kHz, ± 0.2 , -1.0 dB
Alternate channel selectivity: 70 dB
Capture ratio: 1.0 dB
Total harmonic distortion: 0.2% (mono)
Limiting point: 1.2 μ V

Bandwidth: (IF amplifier); 250 kHz, (FM demodulator); 820 kHz
AM tuner section
Sensitivity: 30 μ V
Selectivity: 25 dB
Output voltage: (fixed); 0.7 V
Power consumption: 13 W
Dimensions (W x H x D): 410 x 140 x 352 mm
Weight: 4.8 kg



SA-5060 FM/AM Stereo Receiver

Many circuit innovations developed for more powerful models are included in the SA-5060, while expensive frills are kept to a minimum. 15 watts RMS per channel (at 8 ohms). Advanced circuitry includes direct-coupling throughout. The new low-noise flat response phono equaliser IC provides excellent S/N ratio.

Amplifier section
Continuous power (both ch. driven): 1 kHz (4 Ω , 8 Ω): 2 x 16 W, 2 x 15 W, 40 Hz ~ 20 kHz (4 Ω , 8 Ω): 2 x 13 W, 2 x 13 W
Total harmonic distortion: 0.9%
Power bandwidth: (both channels driven at 4 Ω): 5 Hz ~ 30 kHz, -3 dB
Frequency response: 20 Hz ~ 20 kHz, ± 1.5 , -0.3 dB
S/N ratio (rated power): Phono; 64 dB, AUX; 75 dB
FM tuner section
Sensitivity: (S/N 30dB, 300 Ω): 2.3 μ V (S/N 20dB, 75 Ω): 0.9 μ V
Total harmonic distortion (stereo): (400 Hz, 100% modulation); 0.4%
Frequency response: 20 Hz ~ 15 kHz, ± 1.0 , -2.0 dB
Selectivity: 55 dB
AM tuner section
Sensitivity: 30 μ V, 300 μ V/m
Power consumption: 140 W
Dimensions (W x H x D): 420 x 142 x 315 mm
Weight: 6.1 kg

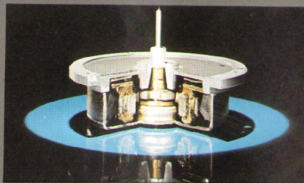
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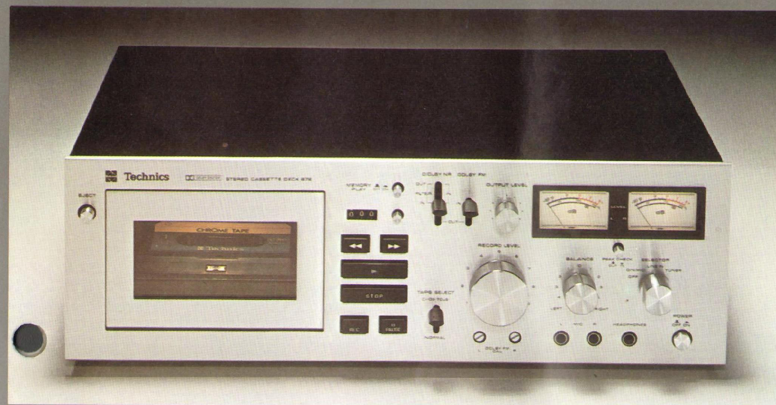
Stereo Cassette Decks

Although it would be difficult to single out any one audio component which has made the Technics reputation for quality and innovation what it is, the Technics cassette deck would certainly qualify for consideration. This is not only because we have constantly worked to improve the performance of cassettes—to the point where they now rival open-reel decks in terms of performance—but also because we have held a constant



lead in the other functions developed for user convenience. We were among the first to recognize the importance of the Dolby Noise-Reduction system, and of the new tape formulations such as CrO₂ and the newer Fe-Cr. And of the critical importance of good peak-level meters for the true tape enthusiast. And many more. Finally, of course, there is the very ultimate cassette deck—the Technics RS-9900 US.

* Dolby and "Double D" emblems are the trademarks of the Dolby Laboratories Inc.



RS-676USD Front Loading Cassette Deck with Dolby FM Capability

The new 2-motor tape transport brings wow-and-flutter down to 0.063% WRMS, making the RS-676USD a true rival to open-reel machines. Frequency response, too, when chrome tape is used, extends from 20Hz ~ 18kHz, rivaling larger machines. And the S/N ratio, using Dolby, is a very good 62dB. Even the

featherlight electronic solenoid pushbuttons are the same as used on high quality open-reel decks. Other features include a photoelectric auto-stop, our 10-year guaranteed HPF recording/playback head, automatic chrome tape selection, and a Dolby FM switch.

Wow and flutter: 0.063% (WRMS), ±0.15% (DIN)
Frequency response:
 CrO₂ tape:
 20 ~ 18,000Hz
 25 ~ 15,000Hz (DIN),
 30 ~ 14,000Hz (±3dB)
 Normal tape:
 20 ~ 16,000Hz,
 25 ~ 14,000Hz (DIN),
 30 ~ 13,000Hz (±3dB)
Signal to noise ratio: Dolby NR out: 52dB (signal level = 250nW/m), Dolby NR in: 62dB at 10kHz
Harmonic distortion: 2.0% (DIN)
Input: MIC: Sensitivity 0.3mV/applicable microphone, impedance 600 Ω ~ 20k Ω, LINE: Sensitivity 60mV/110k Ω, TUNER: Sensitivity 100mV/75k Ω, DIN: Sensitivity 0.34mV/2.2k Ω
Output: LINE: Output level 0.42V/load impedance 50k Ω over HEADPHONE: Output level 65mV/8 Ω, DIN: Output level 0.42V/load impedance 50k Ω over
Motor: 2-motor system
Head: HPF head for recording/playback × 1
Power requirement (AC): 240V, 50Hz
Power consumption: 25W
Dimensions (W × H × D): 410 × 140 × 360mm
Weight: 10.5 kg



RS-671USD Front Loading Cassette Deck with Dolby NR System

Wow-and-flutter of 0.063% WRMS is produced by the 2-motor transport. Dolby NR brings a S/N ratio of 62 dB. Separate bias and equalisation selectors allow the best recording conditions for any kind of tape. Light pressure pushbuttons allow the use of

an electric clock timer for delayed recording and playback. Other features include lock-in pause button, full auto-stop, peak level check meters and our 10-year guaranteed HPF head. There's also mic. mixing, memory rewind.

Wow and flutter: 0.063% (WRMS), ±0.15% (DIN)
Frequency response:
 CrO₂:
 20 ~ 18,000Hz
 25 ~ 15,000Hz (DIN),
 30 ~ 14,000Hz (±3dB)
 Normal tape:
 20 ~ 16,000Hz,
 25 ~ 14,000Hz (DIN),
 30 ~ 13,000Hz (±3dB)
Signal to noise ratio: Dolby NR out: 52dB (signal level = 250nW/m) Dolby NR in: 62dB at 10kHz
Harmonic distortion: 2.0% (DIN)
Input: MIC: Sensitivity 0.3mV/applicable microphone, impedance 600 Ω ~ 20k Ω, LINE: Sensitivity 60mV/68k Ω, DIN: Sensitivity 0.34mV/2.2k Ω
Output: LINE: Output level 0.42V/load impedance 50k Ω over HEADPHONE: Output level 65mV/8 Ω, DIN: Output level 0.42V/load impedance 50k Ω over
Motor: 2-motor system
Head: HPF head for recording/playback × 1
Power requirement (AC): 240V, 50Hz
Power consumption: 20W
Dimensions (W × H × D): 410 × 140 × 330mm
Weight: 9.4 kg



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RS-9900US Cassette System with Double-Capstan 3-Motor Drive, Separate Amplifier

The ultimate cassette deck, which finally brings cassettes on a par with open-reel performance. Tape transport and recording/playback electronics in 2 separate units for easier placement. Transport unit has 3-motor double-capstan closed-loop drive for finest possible tape movement, close and uniform head contact, and minimum wow and flutter. True 3-head system with separate recording and playback heads for same tape monitoring as open-reel equipment. Amplifier unit can be calibrated for any tape. Peak level meters, head azimuth adjustment, Dolby NR system.

Wow and Flutter: 0.04% (WRMS) $\pm 0.10\%$ (DIN)
Frequency response: CrO₂ tape: 25 ~ 20,000 Hz (± 3 dB) 20 ~ 20,000 Hz (DIN) Normal tape: 25 ~ 18,000 Hz (± 3 dB) 20 ~ 18,000 Hz (DIN)
Signal-to-Noise Ratio: (signal level = Maximum recording level) Dolby NR in: 67 dB (above 5 kHz) Dolby NR out: 57 dB
Harmonic Distortion: 1.4% (CrO₂/Normal tape 160mWb/m 333Hz)
Input: Mic: sensitivity 0.25mV/applicable microphone impedance 600 Ω ~ 20k Ω , Line: sensitivity 60mV/input impedance 150k Ω Aux: sensitivity 60mV/input

impedance 150k Ω , DIN; input level 1 mV/impedance 10 k Ω
Outputs: Line: output level 0.42V/load impedance 47k Ω over Through out; output level 0.42V/load impedance 47k Ω over, Aux; output level 0.42V/load impedance 47k Ω over. Head-phones: output level 0 ~ 900mV/impedance 8 Ω ~ 125 Ω , DIN; output level 0.42V/impedance 3.3k Ω

Pitch control: Tape speed variable range $\pm 5\%$ at playback
Calibration controls: Play cal; playback level variable range ± 3 dB at 333Hz, Rec cal; recording level variable range ± 5 dB at 1,000Hz, Bias; bias current variable range $-50 \sim +100\%$ (100% = standard tape), EQ; recording equalizer variable

range ± 5 dB at 10,000 Hz
Motor: 3-motor closed-loop double capstan system 1-DD DC brushless capstan motor, 2-DC coreless motor for reel table drive

Head: HPF heads for rec/playback $\times 2$, double gap ferrite head for erasure $\times 1$
Power Requirement: AC; 110/125/220/240V, 50 ~ 60Hz
Power Consumption: 48W
Dimensions: (W \times H \times D) Transport unit; 483 \times 193 \times 375 mm Amplifier unit; 483 \times 173 \times 375 mm
Weight: Transport unit; 15.0kg Amplifier unit; 9.0 kg



RS-630USD Front Loading Cassette Deck with Dolby NR System

Features separate bias and equalisation for all tape formulations. With our super-hard HPF head and CrO₂ tape, frequency response reaches high 16,000Hz. With our rugged electronic speed controlled DC motor, wow-and-flutter is

reduction, S/N ratio goes up to 60 dB. Essential features include extra-large peak check meters for optimum recording conditions, separate input/output controls, illuminated sliding cassette panel and auto-stop, lockable pause button.

Wow and flutter: 0.09% (WRMS), $\pm 0.20\%$ (DIN)
Frequency response: CrO₂ tape: 20 ~ 16,000Hz, 30 ~ 14,000Hz (DIN), Normal tape: 20 ~ 14,000Hz, 30 ~ 13,000Hz (DIN)
Signal to noise ratio: Dolby NR out: 50dB (signal level = 250nwb/m)
 Dolby NR in: 60dB above 5kHz
Harmonic distortion: 2.0% (DIN)
Input: MIC: Sensitivity 0.25mV/applicable microphone impedance 600 Ω ~ 20k Ω , LINE: Sensitivity 60mV/47k Ω , DIN: Sensitivity 0.34mV/2.2k Ω
Output: LINE: Output level 0.42V/load impedance 50k Ω over HEADPHONE: Output level 60mV/8 Ω , DIN: Output level 0.42V/load impedance 50k Ω over
Motor: Electronic speed controlled motor
Head: HPF head for recording/playback $\times 1$
Power requirement (AC): 240V, 50Hz
Power consumption: 10W
Dimensions (W \times H \times D): 410 \times 142 \times 321 mm
Weight: 7 kg



RS-640USD Cassette Deck with Dolby NR System and Tape "End Eye"

A high performance deck featuring our exclusive "end eye" pilot light giving about 3 minutes warning to end of tape. With our rugged electronically controlled DC motor, wow-and-flutter is down to 0.07% WRMS. Triple tape selection covers all tape formulations. And our exclusive HPF head, used with CrO₂ tape provides a wide frequency response. Dolby noise reduction eliminates tape hiss, keeps S/N ratio high. Supplied with acrylic dust cover.

Wow and flutter: 0.07% (WRMS), $\pm 0.15\%$ (DIN)
Frequency response: CrO₂ tape: 20 ~ 16,000Hz, 30 ~ 14,500Hz (DIN) Normal tape: 20 ~ 15,000Hz, 30 ~ 13,500Hz (DIN)
Signal to noise ratio: Dolby NR out: 51dB (signal level = 250nwb/m) Dolby NR in: 61dB above 5kHz
Harmonic distortion: 2.0% (DIN)
Input: MIC: Sensitivity 0.3mV/applicable microphone impedance 600 Ω ~ 20k Ω , LINE: Sensitivity 60mV/68k Ω , DIN: Sensitivity 0.34mV/2.2k Ω

Output: LINE: Output level 0.42V/load impedance 50k Ω over HEADPHONE: Output level 65mV/8 Ω , DIN: Output level 0.42V/load impedance 50k Ω over
Motor: Electronic speed controlled DC motor
Head: HPF head for recording/playback $\times 1$
Power requirement (AC): 240V, 50Hz
Power consumption: 7W
Dimensions (W \times H \times D): 432 \times 130 \times 301 mm
Weight: 5.8 kg



RS-615US Front Loading Cassette Deck with Dolby NR System

Features built-in timer stand-by system for convenient use with timer to record or play-back at any pre-selected time. Dolby NR system results in S/N ratio of 60 dB. Super-Permalloy head for added clarity, extended

range, longer wear. Large VU meters calibrated up to ± 5 dB. 3-position tape selector for CrO₂, Fe-Cr, or Normal tapes. Line/Microphone input selector. Oil-damped cassette door, illuminated compartment.

Wow and Flutter: 0.10% (WRMS) $\pm 0.20\%$ (DIN)
Frequency response: CrO₂ tape: 20 ~ 16,000 Hz, 30 ~ 14,000Hz (DIN), Normal tape: 20 ~ 14,000Hz, 30 ~ 13,000Hz (DIN)
Signal-to-noise ratio: Dolby NR in: 60dB (above 5kHz), Dolby NR out: 50dB (signal level = 250nWb/m)
Inputs: MIC: sensitivity 0.25mV, applicable microphone impedance 600 Ω ~ 20k Ω , LINE: sensitivity 60mV, input impedance 47k Ω , DIN: input level 0.34mV/2.2k Ω
Outputs: Line: output level 0.42V, load impedance 50k Ω over, HEADPHONE: output level 65 mV, load impedance 8 Ω , DIN: output level 0.42V/3.3k Ω
Motor: 1-motor system, DC-Electronic speed control motor
Head: Super permalloy head for rec/playback $\times 1$
Power requirements: AC 110/125/220/240V, 50Hz
Power consumption: 10W
Dimensions (W \times H \times D): 410 \times 140 \times 305 mm
Weight: 6.3 kg

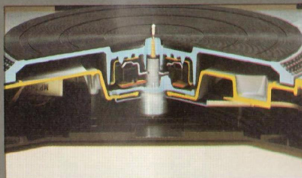
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Turntables

The direct-drive turntable — first developed and perfected by Technics — must certainly rank as one of the most revolutionary developments in the entire history of gramophones, phonographs, record players and turntables. With one stroke we virtually eliminated the need to even consider the existence of rumble and of wow and flutter. But we have not permitted a good development — no matter how excellent — to remain as it is. We have even further perfected this now much-copied principle to



the point of virtual perfection! Belt-drive turntables too have felt the excitement of the changes which have transformed them to a point where the best models are virtually on a par with direct-drive models. IC technology and micro-processors — the computer on a chip — are extensively used throughout the line too. And tonearms and cartridges are now recognized as the leaders throughout the industry. A position we don't intend to relinquish!



SP-10MKII Quartz-Controlled Direct-Drive Turntable

A turntable which has reached precision standards never before attained. Quartz oscillator produces unvarying reference frequency for all mechanical motion. With absolutely constant speed... within $\pm 0.002\%$ (or, in other words, ± 0.036 sec. per LP side). Torque of 5 kg·cm (500 arms tracking at 2 grams each would not make the slightest change in the speed), with enormous starting torque of 6 kg·cm (33 $\frac{1}{2}$ within $\frac{1}{4}$ second). Three speeds include 78 rpm. Quartz-locked strobescope, with single row of strobe marks. Power supply in separate unit. Remote control of stop/start possible.

Type: Direct-drive turntable
 Motor: Brushless DC motor, electronic rectification, quartz-controlled phase-locked servo circuit
 Turntable platter: Aluminum

diecasting, diameter 32 cm, weight 2.9 kg moment of inertia 380 kg·cm
 Turntable speeds: 33 $\frac{1}{2}$, 45, 78, 26 rpm
 Starting torque: 6 kg·cm

Build-up time: 0.25 sec (=25° rotation) to 33 $\frac{1}{2}$ rpm
 Braking time: 0.3 sec (=30° rotation) from 33 $\frac{1}{2}$ rpm to standstill
 Speed fluctuation by load changes: 0% within 5 kg·cm
 Speed drift: Within $\pm 0.002\%$
 Wow and flutter: 0.025% (JIS C5521) WRMS, $\pm 0.035\%$ (DIN 45507), weighted, zero-to-peak
 Rumble: -60 dB (IEC 179B), -50 dB (DIN 45539A), -70 dB (DIN 45539B)
 Power consumption: 26 W
 Dimensions (turntable only): (W×H×D): 368.5×102.5×368.5 mm
 Weight (turntable only): 9.5 kg

SL-1000 MKII

Quartz Phase-Locked Control Direct Drive Turntable with Variable Dynamic Damping Tonearm and Obsidian Base



SL-1800 "One Chip" IC-Controlled Direct-Drive Manual Turntable

A direct-drive turntable for the most discriminating audiophile. Integral rotor-platter structure — the ultimate development in direct-drive turntable design — assures even greater speed accuracy, better overall performance, greater durability. One-chip IC includes all elements (321 in all) for drive and control

functions. Special floating double-insulator system eliminates acoustic feedback. Gimbal-suspension tonearm uses 2 pairs of pivot bearings for finest tracking sensitivity. Wow and flutter amazing 0.025% WRMS; rumble is -73 dB DIN B. Stroboscope and variable pitch controls.



SL-2000 "One Chip" IC-Controlled Direct-Drive Turntable

With DC motor drive, this direct-drive turntable is yet another example of Technics' wealth of experience and technology. Rumble is -70 dB as measured by accepted DIN B norm. Wow and flutter equally superb at only 0.045% WRMS. Sensitive tonearm computer analysed to assure minimum tracking

error and optimum distribution of mass for high-compliance cartridges. One-chip IC includes all elements for drive and control. Fully equipped with zinc diecast base, illuminated strobescope, anti-skating, variable pitch controls.

TURNTABLE SECTION

Type: Direct-drive manual turntable
 Motor: Electronically controlled brushless DC motor
 Turntable platter: Aluminum diecast, 33 cm diameter
 Turntable speeds: 33 $\frac{1}{2}$ and 45 rpm
 Variable pitch controls: Individual adjustment controls, 10% adjustment range
 Wow and flutter: 0.025% (JIS C5521) WRMS $\pm 0.035\%$ (DIN 45507), weighted, zero to peak
 Rumble: -50 dB (DIN 45539A), -73 dB (DIN 45539B)

ONEARM SECTION

Type: Static balance universal tonearm with anti-skating, oil-damped cueing device
 Effective length: 230 mm
 Friction: 7 mg (horizontally and vertically)
 Effective mass: 22 g (6.0 g cartridge weight 1.75g stylus pressure)
 Tracking error angle: Within $\pm 3^\circ$ (at edge of 30 cm record) $\pm 1^\circ$ (at center of 30 cm record)
 Offset angle: 21.5°
 Cartridge range: 5 ~ 11 g
 GENERAL
 Power supply: AC 110/120/220/240V, 50/60 Hz
 Power consumption: 6W
 Dimensions (W×H×D): 453×125×368 mm
 Weight: 8.5 kg

TURNTABLE SECTION

Type: Direct drive turntable
 Motor: Low-speed electronically controlled brushless DC motor
 Turntable platter: Aluminum diecast 30 cm diameter with strobe
 Turntable speeds: 33 $\frac{1}{2}$ and 45 rpm
 Variable pitch controls: Individual adjustment controls, 10% adjustment range
 Wow and flutter: 0.045% WRMS (JIS C5521) $\pm 0.065\%$ weighted zero to peak (DIN 45507)
 Rumble: -47 dB (DIN 45539A), -70 dB (DIN 45539B)
 TONEARM SECTION
 Type: Static-balance universal tonearm with anti-skating, oil-damped cueing device
 Effective arm length: 220 mm
 Tracking error angle: Within $\pm 3^\circ$ (at edge of 30 cm record), -0.2° (at center of 30 cm record)
 Offset angle: 22°
 Cartridge range: 3.5 ~ 9 g
 GENERAL
 Power supply: AC 110/120/220/240V, 50/60 Hz
 Power consumption: 5.5 W
 Dimensions (W×H×D): 430×125×346 mm
 Weight: 6.1 kg

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SL-1600 "One Chip" IC-Controlled Direct-Drive Fully-Automatic Turntable

A new development in direct-drive (developed by Technics) turntable design. Integral rotor-platter construction simplifies construction and raises performance even more. Speed is more precise than ever, reliability even higher. Wow and flutter only 0.025% WRMS. Rumble is -73 dB by accepted

DIN B standard. One-chip IC includes 321 elements for drive and control, keeping speed absolutely unvarying under all conditions. Floating double-insulator system prevents acoustic feedback. Gimbal-suspension tonearm. Stroboscope and variable pitch controls.



SL-1700 "One Chip" IC-Controlled Direct-Drive Semi-Automatic Turntable

This model includes the 3 most wanted automatic features and yet without sacrifice of good simplicity and virtually unsurpassed performance: automatic cut, automatic return, and automatic shut-off. Integral rotor-platter construction advances direct-drive principle to ultimate. Wow and flutter

amazing 0.025% WRMS; rumble (by DIN B standard) is -73dB. One-chip IC element contains 321 elements for drive and control. Floating double-insulator system prevents acoustic feedback. Sensitive gimbal-suspension tonearm for finest tracking. Built-in stroboscope, plus variable pitch controls.

TURNTABLE SECTION

Type: Direct-drive fully-automatic turntable
 Motor: Electronically controlled brushless DC motor
 Turntable platter: Aluminum diecast; 33 cm diameter
 Turntable speeds: 33 $\frac{1}{3}$ and 45 rpm
 Variable pitch controls: Individual adjustment controls, 10% adjustment range
 Wow and flutter: 0.025% (JIS C5521) WRMS \pm 0.035% (DIN 45507), weighted, zero to peak
 Rumble: -50 dB (DIN 45539A), -73 dB (DIN 45539B)

ONEARM SECTION

Type: Static-balance universal tonearm with anti-skating, oil-damped cueing device
 Effective length: 230 mm
 Effective mass: 22 g (6.0 g cartilage weight, 1.75 g stylus pressure)

Tracking error angle: Within \pm 3° (at edge of 30 cm record), \pm 1° (at center of 30 cm record)

Offset angle: 21.5°

Cartridge range: 5 ~ 11 g

GENERAL
 Power supply: AC 110V/120V/220V/240V, 50/60 Hz

Power consumption: 7W

Dimensions (W x H x D): 453 x 125 x 369 mm

Weight: 9.0 kg

TURNTABLE SECTION

Type: Direct-drive semi-automatic turntable
 Motor: Electronically controlled brushless DC motor
 Turntable platter: Aluminum diecast; 33cm diameter
 Turntable speeds: 33 $\frac{1}{3}$ and 45rpm
 Variable pitch controls: Individual adjustment controls, 10% adjustment range
 Wow and flutter: 0.025% (JIS C5521) WRMS \pm 0.035% (DIN 45507), weighted, zero to peak
 Rumble: -50 dB (DIN 45539A), -73 dB (DIN 45539B)

ONEARM SECTION

Type: Static-balance universal tonearm with anti-skating, oil-damped cueing device
 Effective length: 230 mm
 Effective mass: 22 g (6.0 g cartilage weight, 1.75 g stylus pressure)

Tracking error angle: Within \pm 3° (at edge of 30 cm record), \pm 1° (at center of 30 cm record)

Offset angle: 21.5°

Cartridge range: 5 ~ 11 g

GENERAL
 Power supply: AC 110V/120V/220V/240V, 50/60 Hz

Power consumption: 7W

Dimensions (W x H x D): 453 x 125 x 369 mm

Weight: 8.8 kg



SL-110 Direct-Drive Turntable

The SL-110 is ideal for the enthusiast or the studio. Any top-class tonearm can be fitted easily to the wooden base, ready marked with arm mounting guide-lines. Our basic direct-drive motor is mounted in an extremely stable, solid diecast aluminium base standing on independent damped pods. Supplied with lift-off acrylic dust cover.

TURNTABLE SECTION

Type: Direct-drive
 Turntable platter: Aluminium diecast 35 cm diameter
 Speed: 33 $\frac{1}{3}$ and 45 rpm
 Motor: Ultra-low speed DC brushless

Pitch control range: 10%

Wow and flutter: 0.03% WRMS (JIS) \pm 0.042% wtd. zero-to-peak (DIN)

Rumble: -50 dB (DIN A), -70 dB (DIN B)

Power consumption: 4 W

Power supply: 110 ~ 240V, 50/60 Hz

Dimensions (W x H x D): 510 x 195 x 390 mm

Weight: 13 kg



SL-20 Belt-Drive Turntable

A high quality belt-drive turntable with our exclusive FG servo controlled DC motor using integrated circuitry for more stability and greater reliability. Low power consumption means a longer life. Wow-and-flutter is a low 0.05% WRMS. Rumble -65 dB DIN B. Compact and slim design. Hinged detachable dust cover and headshell supplied.

TURNTABLE SECTION

Type: Manual, belt-drive
 Turntable platter: Aluminium diecast 30 cm diameter
 Speed: 33 $\frac{1}{3}$ and 45 rpm
 Motor: F.G. servo DC

Pitch control range: 6%

Wow and flutter: 0.05% WRMS (JIS) \pm 0.08% wtd. zero-to-peak (DIN)

Rumble: -40 dB (DIN A), -65 dB (DIN B)

ONEARM SECTION

Type: Static balanced tubular
 Effective length: 220 mm
 Power supply: 110 ~ 240V, 50/60 Hz

Dimensions (W x H x D): 428 x 135 x 348 mm

Weight: 5 kg



SL-150 Direct-Drive Turntable

Integral rotor-platter construction for even better performance and durability. Superb wow and flutter rating: 0.03% WRMS. Rumble is -70 dB DIN B. Variable pitch controls, illuminated stroboscope, aluminium diecast base, and feedback-insulated legs. Supplied with mounting plate for SME arm.

TURNTABLE SECTION

Type: Manual, direct-drive
 Turntable platter: Aluminium diecast 33 cm diameter
 Speed: 33 $\frac{1}{3}$ and 45 rpm
 Motor: Ultra-low speed DC brushless

Pitch control range: 10%

Wow and flutter: 0.03% WRMS (JIS) \pm 0.042% wtd. zero-to-peak (DIN)

Rumble: -50 dB (DIN A), -70 dB (DIN B)

Power consumption: 6 W

Power supply: 110 ~ 240V, 50/60 Hz

Dimensions (W x H x D): 453 x 139 x 366 mm

Weight: 7.8 kg



SL-23 Belt-Drive Semi-Automatic Turntable

Driven by our exclusive FG (frequency generated) servo controlled motor combined with a new automatic mechanism for auto-return. Integrated circuitry keeps operation stable and increases long-term reliability. Wow-and-flutter is down to 0.05% WRMS and rumble reduced to only -65 dB DIN B. Electronic speed switching, pitch controls.

TURNTABLE SECTION

Type: Semi-automatic, belt-drive
 Turntable platter: Aluminium diecast 30 cm diameter
 Speed: 33 $\frac{1}{3}$ and 45 rpm
 Motor: F.G. servo DC

Pitch control range: 6%

Wow and flutter: 0.05% WRMS (JIS) \pm 0.08% wtd. zero-to-peak (DIN)

Rumble: -40dB (DIN A), -65 dB (DIN B)

ONEARM SECTION

Type: Static balanced tubular
 Effective length: 220 mm
 Power supply: 220/240V, 50/60Hz

Dimensions (W x H x D): 428 x 135 x 348 mm

Weight: 6.5 kg

Speaker Systems

The final step in the travel of signals through an audio system is most often the speaker system. It is also—by any standard—one of the most important in the determination of the final result—the sound. Thus it was of singular importance when we announced the development of the Linear Phase speaker system. A system designed with special emphasis upon phase linearity, it can be



audience of satisfied fans.

demonstrated to be the most identical to the original sound by electrical means (the oscilloscope) as well as the way by which the listener will most often judge sound: two ears. Our acoustic suspension speakers are no less than the best we could make them for all of that either... with excellent listening enjoyment for a wide



SB-7000 Linear Phase 3-Way Speaker System

Linear phasing with flat frequency response provides true waveform fidelity. The completely new crossover network is designed for linear phase response overall. Ultra-smooth crossover points result from the use of a passive crossover network using only inductors, capacitors and resistors (LCR). Large 35 cm woofer using TC triple-layer with blended aramid fibre has greater effective area with less cone movement for reduced Doppler distortion. 12 cm cone type midrange features the same material for reduced partial vibration and upper harmonic distortion. New low distortion tweeter uses strontium-ferrite square magnet. Also new parallel resonant circuits provide ideal level control.

Configuration: 3-way 3-speaker bass reflex
Speaker unit: woofer; 35cm cone, mid-range 12cm cone, tweeter; 3.2cm dome
Input impedance: 6 Ω
Peak input power: 150W
Output level: 93dB/W (1m)
External dimensions: (W × H × D) 480 × 845 × 410mm
Net weight: 36 kg

Note 1: The maximum instantaneous peak powers of SB-7000/6000/5000/4500 are for a voice-coil temperature rise to not greater than 80 °C, which corresponds to the conditions of measurement.
 Note 2: System supplied with grille cloth.



SB-202 Acoustic Suspension 2-Way 2-Speaker System

20cm linear core woofer and 2.5cm titanium diaphragm tweeter, with level control, gives overall frequency response from 45Hz ~ 20kHz, Input power is 40 watts.

Configuration: 2-way acoustic suspension
Speaker unit: woofer; 20cm linear core, tweeter; 2.5cm titanium dome
Input impedance: 8 Ω
Peak input power: 40W (Max.)
Output level: 90dB/W (1m)
Frequency response: 45Hz ~ 20kHz
Crossover network: 12dB/oct.
External dimensions: (W × H × D) 280 × 490 × 257 mm
Net weight: 10 kg



SB-90 Bass Reflex 2-Way 2-Speaker System

A compact, high efficiency bass reflex system with peak input power handling capacity of 36 watts. Uses a 20cm cone low distortion woofer and 6.5cm cone tweeter.

Configuration: 2-way bass reflex
Speaker unit: woofer; 20cm cone tweeter; 6.5cm cone
Input impedance: 8 Ω
Peak input power: 36W
Output level: 93dB/(1m)
External dimensions: (W × H × D) 254 × 455 × 213mm
Net weight: 7 kg



SB-102 Acoustic Suspension 2-Way 2-Speaker System

Highly compact but with 36 watts input power and 45Hz ~ 20kHz frequency response. Employs a 20cm low distortion woofer and 2.5cm titanium dome diaphragm tweeter.

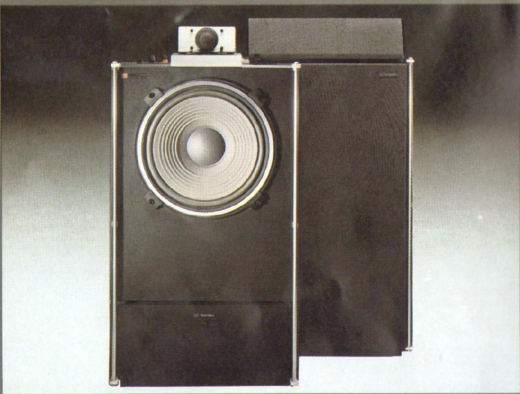
Configuration: 2-way acoustic suspension
Speaker unit: woofer; 20cm TC cone, tweeter; 2.5cm dome
Input impedance: 8 Ω
Peak input power: 36W (Max.)
Output level: 90dB/W (1m)
External dimensions: (W × H × D) 254 × 455 × 213 mm
Net weight: 7 kg



SB-30 Acoustic Suspension Full Range Speaker System

This incredibly tiny and extend speaker can actually handle up to 20 watts input power through its 9cm high-compliance unit wrapped up in acoustic suspension format. Frequency response is good at 50Hz ~ 20kHz. Proves that small speakers can have big sound capacity and hi-fi performance.

Configuration: Full range, acoustic suspension
Speaker unit: woofer; 9cm full range cone
Input impedance: 8 Ω
Peak input power: 20W (Max.)
Output level: 86dB/W (1m)
External dimensions: (W × H × D) 103 × 181 × 127mm
Net weight: 1.5 kg



SB-6000 Linear Phase 2-Way Speaker System

The pure, uncoloured sound of our Linear Phase system is modified into a 2-way system with no loss of waveform fidelity. The new crossover network provides overall linear phase response. Smooth crossover junction comes from a passive crossover network using only inductors, capacitors and resistors. Large 30cm woofer uses special aramid fibre blended cone for low distortion. The high efficiency, low distortion dome tweeter is mounted on a diffraction equaliser bracket. Units are staggered for alignment of acoustical centres. Close vertical alignment ensures excellent dispersion and sound image location.

Configuration: 2-way 2-speaker bass reflex
Speaker unit: woofer: 30cm cone, tweeter: 3.2cm dome
Input impedance: 6 Ω

Peak input power: 100W
Output level: 93dB/W (1m)
External dimensions: (W x H x D) 425 x 846 x 340 mm
Net weight: 28 kg

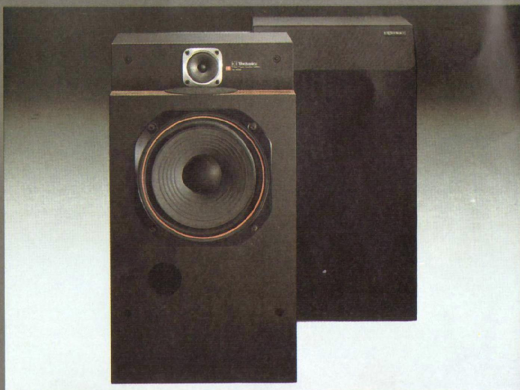


SB-5000 Linear Phase 2-Way Speaker System

Waveform fidelity with economy is the SB-5000. It has the same basic design principle as the bigger models, but with reduced proportions and smaller units. Excellent fidelity and super-flat response. Ultra-smooth crossover point of speakers is assured by new crossover network designed specially for linear phase response overall. 25cm woofer uses special aramid fibre blend for reduced partial vibration and low distortion. New edgeless 6cm cone tweeter built for wide range with low distortion. Units are staggered for alignment of acoustical centres. Good dispersion and sound image location come from close vertical alignment.

Configuration: 2-way 2-speaker bass reflex
Speaker unit: woofer: 25cm cone, tweeter: 6cm cone
Input impedance: 8 Ω

Peak input power: 75W
Output level: 93.5dB/W (1m)
External dimensions: (W x H x D) 350 x 717 x 323mm
Net weight: 16 kg



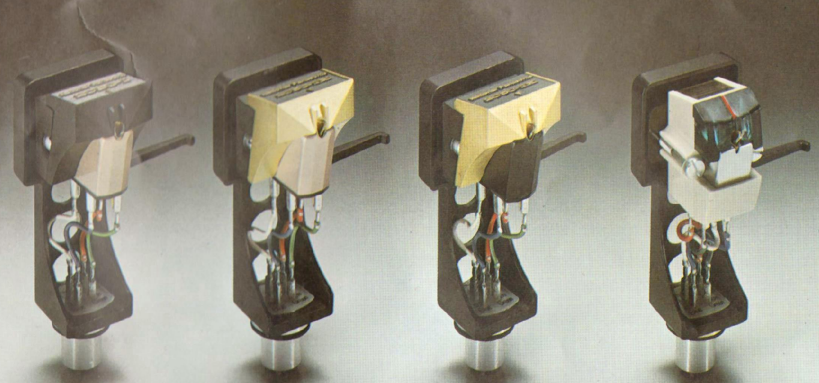
SB-4500 Linear Phase 2-Way Speaker System

With the same fundamental technology principles of the larger systems, this system is for the budget-minded perfectionists. Retains crisp transparency throughout entire audio spectrum. Same Linear Phase configuration, with 25cm extra-wide-range woofer and 6cm wide-range edgeless cone tweeter ... all in bass-reflex system. Units staggered for alignment of acoustical centres. New crossover unit assures wave-form fidelity. Crossover point at 2 kHz.

Configuration: 2-way 2-speaker bass reflex
Speaker unit: woofer: 25cm cone, tweeter: 6cm cone
Input impedance: 6 Ω

Peak input power: 75W
Output level: 92.5dB/W (1m)
External dimensions: (W x H x D) 350 x 631 x 325mm (including grille)
Net weight: 14.5 kg

Cartridges National Panasonic



EPC-205C-II S
The Standard Type

EPC-205C-II H
The High Output Type

EPC-205C-II L
The Low Impedance Type

EPC-270C-II

EPC-205C-IIS

A standard type with output voltage of 3.5mV (at 5cm/s, 1 kHz). Samarium-cobalt magnet is flat disc shaped to allow low effective moving mass to be combined with high output voltage. Piped cantilever construction gives rigidity for high tracing fidelity.

Type: Moving magnet stereo cartridge (standard type)
Frequency response: 10 Hz ~ 25 kHz, ± 2 dB
Output voltage: (at 1 kHz, 5cm/sec, zero-to-peak lateral velocity); 3.5 mV
Channel separation: (at 1 kHz); 25 dB or more (at 10 kHz); 20 dB or more
Channel balance: (1 kHz); within 1 dB
Internal impedance: (at 1 kHz); 3.6 k Ω
Dynamic compliance: 12×10^{-8} cm/dyne (CBS STR-100)
Recommended tracking force: 1.25 ± 0.25 g (12.5 ± 2.5 mN)
Stylus tip: 0.2 x 0.7 mil ($5 \times 18 \mu\text{m}$) elliptical, naked diamond of 0.15 mm square
Cartridge weight: 6.5 g
Replacement stylus: EPS-205 ED

EPC-205C-IIH

A high S/N ratio MM cartridge with high output voltage of 7 mV (5 cm/s, 1 kHz). This design gives four times higher amplifier power at the same volume setting compared with our standard type. S/N ratio is also better by 6 dB with reduced pick-up of leakage hum.

Type: Moving magnet stereo cartridge (high output type)
Frequency response: 10 Hz ~ 25 kHz, ± 2 dB
Output voltage: (at 1 kHz, 5cm/sec, zero-to-peak lateral velocity); 7 mV
Channel separation: (at 1 kHz); 25 dB or more (at 10 kHz); 20 dB or more
Channel balance: (1 kHz); within 1 dB
Internal impedance: (at 1 kHz); 3.6 k Ω
Dynamic compliance: (at 100Hz); 12×10^{-8} cm/dyne (CBS STR-100)
Recommended tracking force: 1.25 ± 0.25 g (12.5 ± 2.5 mN)
Stylus tip: 0.2 x 0.7 mil ($5 \times 18 \mu\text{m}$) elliptical, naked diamond of 0.15 mm square
Cartridge weight: 6.5 g
Replacement stylus: EPS-205 EX

EPC-205C-II L

Extremely low impedance design allows use in any turntable and with any amplifier regardless of their capacitance and impedance characteristics. Output voltage is 4mV (5 cm/s, 1kHz). Tapered pipe titanium cantilever construction combines high rigidity with light weight.

Type: Moving magnet stereo cartridge (low impedance type)
Frequency response: 10 Hz ~ 25 kHz, ± 2 dB
Output voltage: (at 1 kHz, 5 cm/sec zero-to-peak lateral velocity); 2 mV
Channel separation: (at 1 kHz); 25 dB or more (at 10 kHz); 20 dB or more
Channel balance: (1 kHz); within 1 dB
Internal impedance: (at 1 kHz); 250 Ω
Dynamic compliance: (at 100 Hz); 12×10^{-8} cm/dyne (CBS STR-100)
Recommended tracking force: 1.25 ± 0.25 g (12.5 ± 2.5 mN)
Stylus tip: 0.2 x 0.7 mil ($5 \times 18 \mu\text{m}$) elliptical, naked diamond of 0.15 mm square
Cartridge weight: 6.5 g
Replacement stylus: EPS-205 EX

EPC-270C-II

Uses new magnetic material (acronym CKS) which eliminates the coupler for lower overall mass and reduced partial vibrations. Output voltage is 3.2 mV (5 cm/s, 1 kHz). High strength aluminum alloy tube cantilever gives low effective mass.

Type: Moving magnet stereo cartridge
Frequency response: 20 Hz ~ 20kHz, $+2$ -3 dB, 20Hz ~ 15 kHz, ± 2 dB
Output voltage: (at 1 kHz, 5 cm/sec, zero-to-peak lateral velocity); 3.2 mV
Channel separation: (at 1 kHz); 25 dB or more (at 10 kHz); 20 dB or more
Channel balance: (1 kHz); within 2 dB
Internal impedance: (at 1 kHz); 3.6 k Ω
Dynamic compliance: (at 100 Hz); 10×10^{-8} cm/dyne (CBS STR-100)
Recommended tracking force: 1.75 ± 0.25 g (17.5 ± 2.5 mN)
Cartridge weight: 6.0 g
Replacement stylus: EPS-270 ED

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Microphones

RP-3200E

Single Point Stereo Microphone

High sensitivity thanks to perpendicular arrangement of the two built-in elements and six Field Effect Transistors incorporated in the built-in amplifier. Advanced matrix circuitry eliminates cross talk and attains superb stereo separation.

RP-3550E

Compact, Moderately Priced Uni-directional Electret Condenser Microphone with Fixed Windscreen

Recommended to owners of high-grade tape decks. The built-in amplifier incorporates high-quality FET's for crystal clear, noise-free sound. Wind blast effectively counter-acted by a double-mesh windscreen.

RP-3830E

Stylish High Quality Uni-directional Stick Mike with Trendy Removable Windscreen

The head amp includes high-impedance low-noise FET's. Tonal quality can be regulated with the low cut switch. The cable connector is suitable for both switchcraft and cannon plugs.

RP-3850E

Slimline Uni-directional Microphone with Sturdy Removable Windscreen

A low cut filter allows adjustment of tonal quality and reduction of boominess. PAD switch lowers sensitivity by 10dB. And since the max. SPL is 128dB, even the deafening roar of a low flying jet aircraft can be picked up with distortion-free clarity.



EAH-300 Stereo Headphones

An entirely new headphone design based on waveform fidelity and sound image location. The EAH-300 headphones are ergonomically designed for the most comfortable, fatigue-free fit, especially over long periods of wear. Its natural sound reproduction capability is like a room speaker.

Type: Dynamic
Max. input power: 100mW
Impedance: 125 Ω
Sensitivity: 95dB/mW
Frequency response: 20Hz ~ 20kHz
Distortion: (500Hz, 1mW); less than 0.3%
Cord length: 3m
Net weight: (without cord); 260g
Speaker size: 3cm



RP-9690 Remote control unit RS-9900US.



HS-100 Hi-Fi cabinet

If any manufacturer of high-fidelity equipment anywhere in the world can be said to have an advantage in the research, the development, the control of quality, and the final production of state-of-the-art equipment and components, then that manufacturer must be Technics. Beginning with fundamental research itself, the name Technics tells something of our concept: research into the most basic technological principles in order to develop the many breakthroughs—and the examples of technology—which have placed us prominently in the forefront of technology rather than just following at the improvement of someone else's ideas (although we've often done that also!).

Had we have a definite advantage in doing so because, as Japan's largest manufacturer of consumer electronics, we are into every aspect of technology...meaning that, ultimately, we design and produce our component parts, our own testing and measuring equipment, and even our own production facilities.



Quality control in such a sophisticated field is no easy matter, but it is certainly one of the most important factors which has contributed to our tremendous growth. This has resulted in our continued popularity, as shown by the loyal consumers who specify Technics and continue to do so time after time. We test even the smallest component part in a multitude of the most minute ways—to assure that performance never ever lets our good name down. As the leader, we simply can't afford to do less. And, because Technics is a name you see everywhere in the world, our products are voluntarily submitted to various electrical safety organisations and standards committees in the countries where they are

sold. Need we say that they invariably pass every test, most often far exceeding local standards. Finally, we maintain the finest possible sales and service organisation. This assures that fully-trained technicians are available at all times to service our products and advise you—our customers!

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**A finely balanced component system for higher
hi-fi reproduction level.**

SL-1800 "One Chip" IC-Controlled Direct Drive
Turntable
RS-615US Front Loading Cassette Deck with Dolby
NR System

ST-7300 FM/AM Stereo Tuner
SU-7300 Stereo Integrated Amplifier
SB-4500 Linear Phase 2-Way Speaker System