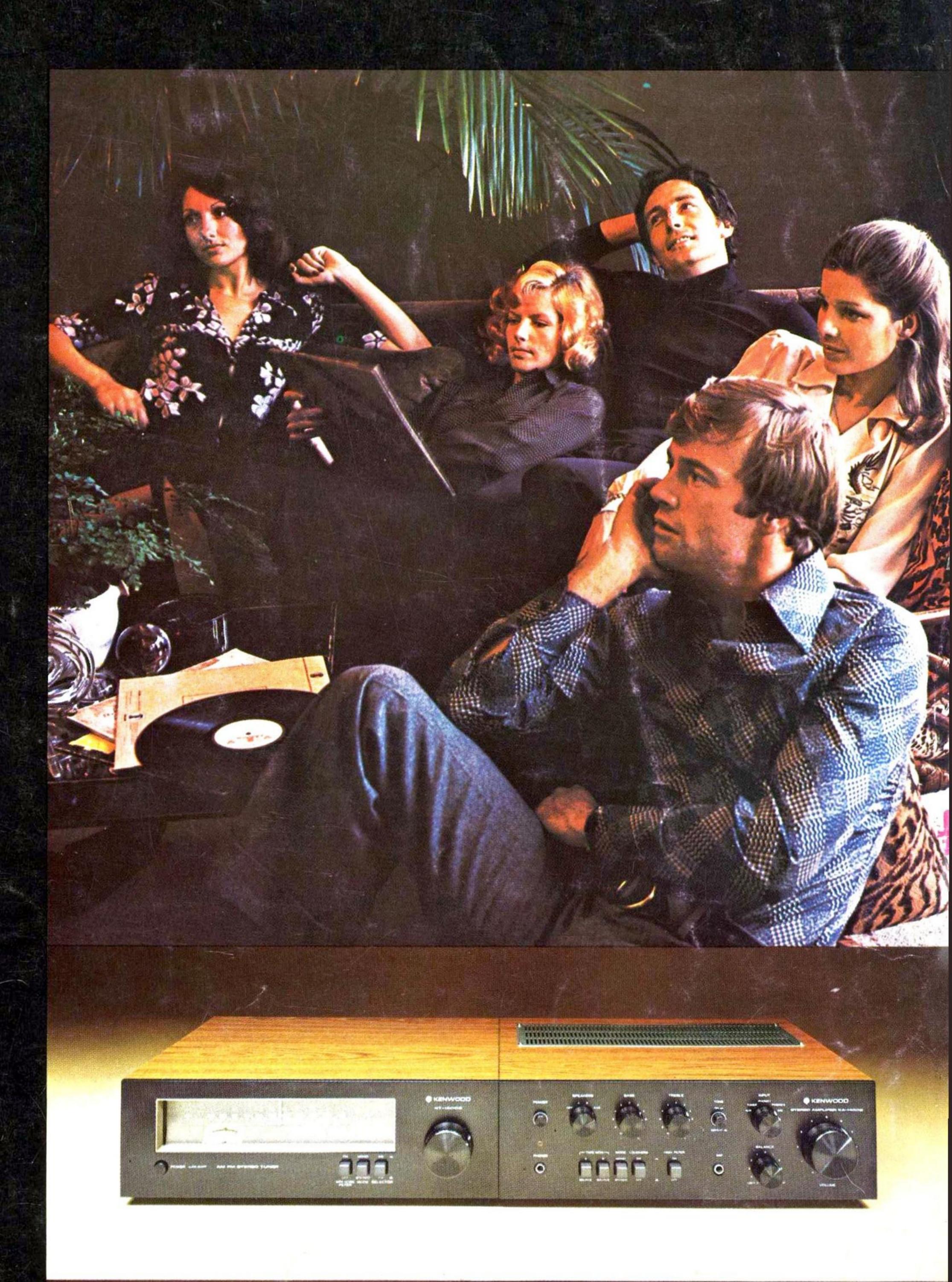
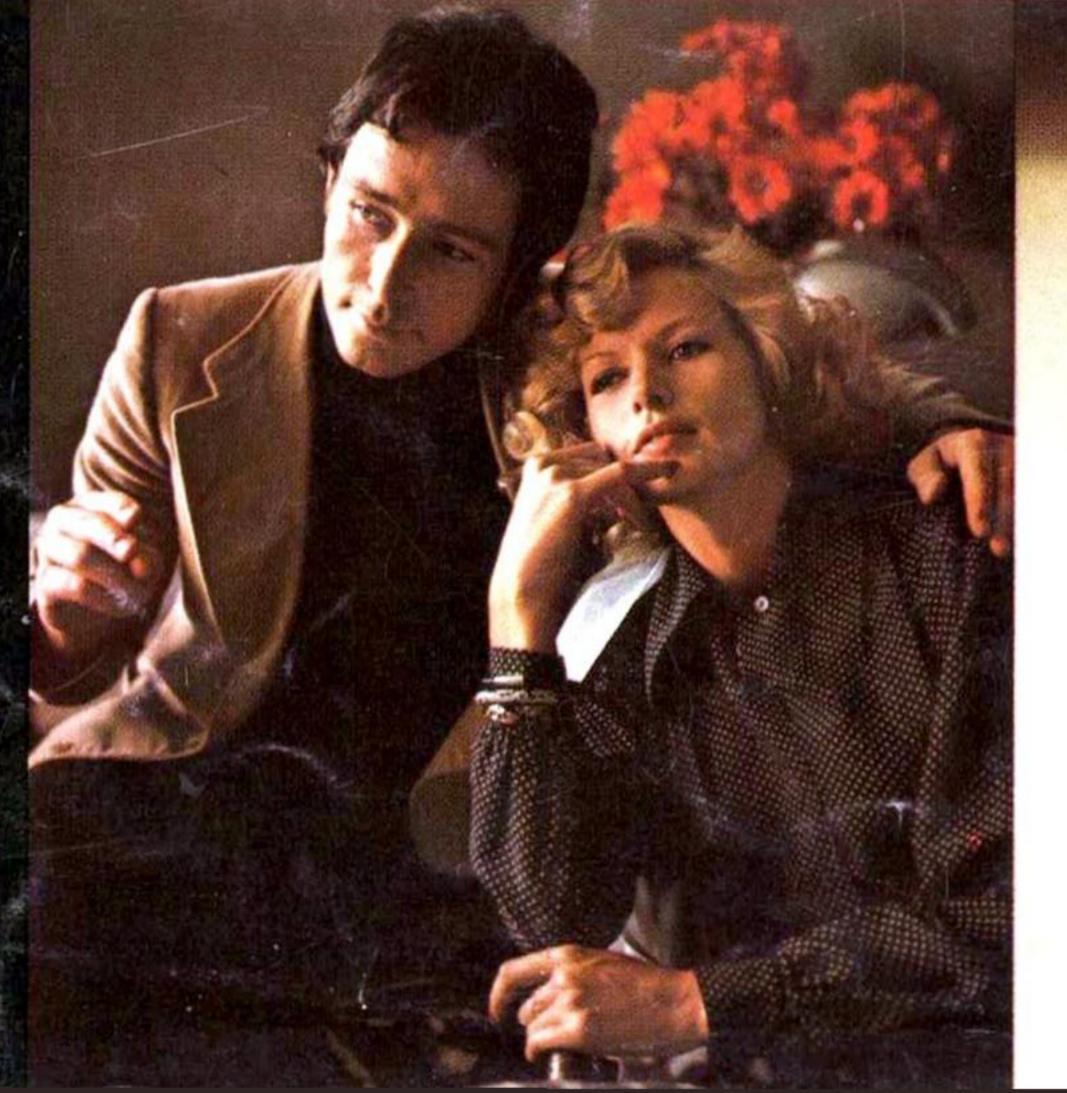
Compact Tuner/Amplifier Series \$KENWOOD

KT-1300B

KA-1600B KA-1400B KA-1200B









Kenwood Introduces Economy To Great Stereo

Kenwood started with the premise that music lovers want good sound - not a ticket to the poorhouse. The answer is the 1000 series. These superbly designed stereo components have a cost to performance ratio that's hard to beat. All circuits in tuner and amplifiers are eminently functional – not decorations to be seen

Reasons abound for the quality packed into these "little giants" but fundamentally they can be summarized in one word - efficiency. Kenwood laid stress on getting the most in quantity (power) and quality from each component and circuit. This efficiency begins with FM reception and continues to the speaker outputs.

KA-1600 B is one of the amplifiers in the 1000 series. With its all direct coupled and pure complementary circuit it's a powerhouse of pure listening pleasure. And it's so easy to get just the right combination you want with inputs for two tape decks, two record players and two separate sets of speaker systems. A wide choice is opened up to the proud owner of this amplifier. Dubbing from tape deck to tape deck

KT-1300 B is the AM/FM stereo tuner in the 1000 series. It's the crowning achievement of Kenwood's unique FM technology and uses PLL IC in the MPX circuit. The efficiency that begins in KT-1300 B goes all the way through to the amplifier output. Circuits in this tuner are the same "luxurious" type as found in top class tuners.

The 1000 series tuner and amplifiers are compact and low-in-price components with all of Kenwood's sound know-how behind them. All the basic elements for a very fine stereo system are here. Frills were eliminated and what is left is top quality performance from FM reception to power output. The external design of the 1000 series is attractive and functional. The inner circuits are crammed with efficiency and performance.





KT-1300 B

KA-1400 B

FM Tuner With Basic Efficiency Given A New Boost

. FM sensitivity of this tuner is rated at 3.0 μ V (IHF). It has what it takes for extra clear and sharp reception even of weak stations. Weak signals are pulled in and boosted so the music you finally hear is of the best quality.

2. MOS type FET (field effect transistor) is used in the front-end of KT-1300 B. This works to reduce interference of all kinds – spurious noises or signals on other nearby frequencies. Signals, powerful or weak, get the same treatment thanks of the MOS

3. The linear dial scale lights up for easy reading and ranges from 88 MHz to 108 MHz. It uses a direct coupled variable condenser to cover the whole range of FM frequencies.

4. The extra reliable IF stages use ceramic ICs. These stages provide the gain that is required and help reduce distortion. The ceramic ICs do their part for a broad bandwidth as well as for reducing inter-

5. The superior PLL IC is used which shows outstanding characteristics for better separation in the MPX circuit. It also helps to reduce distortion to an absolute minimum.

6. KT-1300 B has a built-in MPX Noise Filter which cuts out the higher noises that are so annoying. These can come from a weak signal and other causes. The noise filter does not affect the high frequency

SPECIFICATIONS KT-1300

FM TUNER SECTION

87.5 MHz ∼ 108 MHz (FTZ approved) Usable Sensitivity (IHF) 5.0 μV 50 dB, 10 μV 56 dB, 50 μV 58 dB Frequency Response

50 Hz \sim 13,000 Hz $^{+0}_{-3}$ dB 0.8 % Mono (at 400 Hz 100 % Harmonic Distortion modulation) 1.0 % Stereo (at 400 Hz 100 % 60 dB at 1 mV input

88 MHz ~ 108 MHz

Signal to Noise Ratio Image Rejection Selectivity (IHF ALT channel) Spurious Signal Rejection AM Suppression Capture Ratio 30 dB at 1,000 Hz Stereo Separation 30 dB at 10,000 Hz

Sub Carrier Suppression 300 ohms balanced & 75 ohms Antenna Impedance

AM TUNER SECTION

Usable Sensitivity (IHF) Signal To Noise Ratio 40 dB at 1 mV input Selectivity (IHF) IF Rejection Built-in ferrite bar antenna. External antenna terminals

OUTPUT VOLTAGE

FM (at 400 Hz 100 % modulation) 1.0 V, 2 k ohms AM (at 400 Hz 30 % modulation) 150 mV, 2 k ohms

GENERAL

Switches

10 Watts W 14-5/8" (372 mm), Power Consumption H 4-15/16" (125 mm) D 9-7/8" (251.5 mm)

Weight

AM-FM, MONO-STEREO

7.66 lbs. (3.5 kg)

MPX NOISE FILTER, POWER

Tuning Knob, FM STEREO 8. The loudness switch increases those sections of

> 9. KA-1600 B has a special microphone input. Recording on your own is simplified. (Mic mixing is not

We reserve the right to make modifications in accordance with technical developments.

KA-1600 B Versatility To Match Top Amplifier Quality

. Power to spare with 23 W + 23 W (RMS) output into 8 Ω KA-1600B easily and adequately covers the whole range from 50 \sim 20,000 Hz. Distortion is reduced to an absolute minimum.

2. Direct coupled pure complementary circuit is designed for maximum output performance. Another example of use of high efficiency. Feeding the signal directly to the speakers means better use of power and at the same time less distortion.

3. KA-1600 B uses a constant-current circuit in the emitter of the differential amplifier. This special design reduces the usual shock noise when the power of the amplifier is turned on or off. An instance of Kenwood's policy of efficiently reducing noise even

if it's only momentary. 4. The preamplifier section benefits from a two stage direct coupled low noise equalizer circuit. Distortion is prevented in these two stages - it isn't amplified in the main amplifier. RIAA deflection is low and

signal to noise ratio is high. 5. The versatility of this amplifier is increased with its connectors for two tape decks. This feature adds to its convenience and usefullness. A cassette deck and open reel deck can both be connected. There is no need to be bothered by continuous changes. Dubbing is possible from tape deck A to tape deck B.

6. Two separate speaker systems can be directly connected to the amplifier output. The two systems can be operated simultaneously or separately. It's simple to have music in two room without the added expense of having two stereo systems.

7. The click stop tone controls are easy to operate to get just the right tone that you like best. There are separate controls for bass and treble. Also a defeat switch.

the audible range that are difficult to hear when music is played at low volume. Hi/low filters give you the option of cutting or not cutting out the extremes of the listening frequencies.

KA-1400 B Distortion Reduced To Its Lowest Limits

I. With both channels driven (1 kHz) into 8 Ω KA-1400 B has a rated output of 17 W + 17 W. Adequately covers a range from 50 ~ 20,000 Hz well beyond the usual limits of the most ardent high fidelity enthusiasts. Feeds perfectly into any 8 Ω speaker system with no complications at all.

2. Semi-complementary OTL (Output Transformerless) circuit assures that maximum power will reach the speaker terminals. There is no loss in transformers that modern technology have made unnecessary. Distortion is kept down until it is almost nonexistent and efficiency is increased to its maximum

3. The two stage direct-coupled low noise equalizer circuit functions efficiently in the preamplifier section. Distortion is eliminated here and not passed on to the speakers where it is turned into audible sound. These two stages have a lot to do with low RIAA deflection and high signal to noise ratio.

4. Full protection is supplied by the electronic protection circuit.

5. Two tape decks can be directly connected to this amplifier. Dubbing from tape deck A to tape deck B is also possible. This feature is particularly convenient if you want to change from a cassette tape deck to an open reel deck and back again frequently. All can be done by just pushing the necessary switches. No fuss or bother with a lot of connections. 6. Two separate speaker systems can be connected to KA-1400 B. They can be used at the same time or separately. Settings are for Off (If you want to use headphones), A speaker system, B speaker system or A + B, when both systems are to be used simultaneously. Two record players can also be connected to KA-1400 B.

7. The tone controls permit adjustment of music tone to fit individual taste. One control is for bass and the other for treble. Settings range from + 10 to — 10. There is also a defeat switch.

8. The high filter switch is incorporated into this amplifier to get rid of the extreme highs which sometimes consist only of a lot of annoying hiss. The high filter will cut these out. The loudness switch is used when listening to music at low volume.

KA-1200 B

- Power Output (RMS) 13 × 2 W
- Semi-Complementary OCL Power Amp
- Bass, Treble Tone Controls
- 2 sets of Speaker Systems connectable
- Input Selector, Tuner, Phono, AUX, MIC Tape Monitor, Loudness Switch



KA-1200 B



2.5 mV, 50 k ohms Phono 1 2.5 mV, 50 k ohms Phono 2 150 mV, 50 k ohms Tuner AUX 150 mV, 50 k ohms Tape Play 150 mV, 50 k ohms 3.0 mV, 50 k ohms Mic Maximum Input Voltage (rms) 85 mV, T. H. D. 0.8 % at 1,000 Hz Phono Signal to noise Ratio (I. H. F. A CURVE) 68 dB Phono 80 dB Tuner AUX 80 dB 80 dB Tape Play 68 dB Output Voltage and Impedance 150 mV, 110 ohms Tape Rec. (Pin) 30 mV, 80 k ohms (Din connector) Frequency Response Phono

Treble Loudness Control (- 30 dB) Low Filter 100 Hz High Filter 10 KHz

Speaker Selector

Input Selector

Tape Monitor

Power Comsumption

Tuner, AUX, Tape Play

Tone Controls

Bass

GENERAL

Switches

Mode

Others

AC Outlet

RIAA Standard curve ± 1.0 dB 20 Hz - 40 KHz + 0, -2 dB± 10 dB at 100 Hz ± 10 dB at 10,000 Hz + 8 dB at 100 Hz + 5 dB at 10,000 Hz -8 dB-8 dBOFF, A, B, A+BAUX, TUNER, PHONO 1, PHONO 2, MIC

150 mV, 50 k ohms 150 mV, 50 k ohms 3.0 mV, 50 k ohms 80 mV, T. H. D. 0.8 % at 1,000 Hz 68 dB 80 dB 80 dB 80 dB 68 dB 150 mV, 110 ohms 30 mV, 80 k ohms RIAA Standard curve ± 1.0 dB 20 Hz - 40,000 Hz + 0, -2 dB± 10 dB at 100 Hz \pm 10 dB at 10,000 Hz + 8 dB at 100 Hz + 5 dB at 10,000 Hz -8 dB

OFF, A, B, A+B

STEREO, MONO

Switched 1, Unswitched 1

135 watts at full power

10 watts at no signal

D 9-7/8" (251.5 mm)

11.6 lbs (5.3 kg)

A, B

AUX, TUNER, PHONO 1, PHONO 2, MIC

HIGH FILTER, LOUDNESS, TONE DEFEAT

W 14-5/8" (372 mm), H 4-15/16" (125 mm),

2.5 mV, 50 k ohms

2.5 mV, 50 k ohms

150 mV, 50 k ohms

2.5 mV, 50 k ohms 150 mV, 50 k ohms 150 mV, 50 k ohms 150 mV, 50 k ohms 3.0 mV, 50 k ohms 80 mV, T. H. D. 0.8 % at 1,000 Hz 68 dB 80 dB 80 dB 80 dB 68 dB 150 mV, 110 ohms 30 mV, 80 k ohms RIAA Standard curve ± 1.0 dB 20 Hz - 40,000 Hz + 0, -2 dB± 10 dB at 100 Hz ± 10 dB at 10,000 Hz + 8 dB at 100 Hz + 5 dB at 10,000 Hz

OFF, A, B

STEREO, MONO

SOURCE, PLAY

LOUDNESS

Unswitched 1

AUX, TUNER, PHONO MIC

120 watts at full power

W 14-5/8" (372 mm), H 4-15/16" (125 mm),

9 watts at no signal

D 9-7/8" (251.5 mm)

10.8 lbs (4.9 kg)

Dimension D 9-7/8" (251.5 mm) Weight

12.7 lbs (5.8 kg)

STEREO, MONO

A, B

Switched 1, Unswitched 1 160 watts at full power 19.5 watts at no signal

W 14-5/8" (372 mm), H 4-15/16" (125 mm),

HIGH FILTER, LOW FILTER, LOUDNESS, TONE DEFEAT

We reserve the right to make modifications in accordance with technical developments.

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Your Kenwood-Dealer