



The Harman-Kardon 230A

45 watt AM/Stereo FM solid state receiver

The Harman-Kardon engineering team has completed a high performance stereo receiver which exceeds every specification ever established for medium priced stereo components. The new Model 230A combines the finest stereophonic sound with the industry's most distinctive styling to give high fidelity a new standard of excellence and performance at a price of less than \$160.00.

The 230A adheres to the same philosophy of design that makes all Harman-Kardon receivers sound more transparent and lifelike. Frequency response, which is usually limited to the narrow range

of 20-20,000 hertz in most receivers, is extended well beyond those parameters to give the sound you hear greater clarity and definition. All of the subtle nuances and shadings of music emerge with exciting realism.

Tuner sensitivity of the 230A is extraordinary. It pulls in distant stations without noise or fading. AM and FM performance never deteriorates with age because the receiver produces no heat to change the value of component parts. And when you tune the 230A to a station, it locks into place and never drifts.

The 230A requires a depth of only

eight inches on a bookshelf and it installs easily without fuss. Its handsome black and gold escutcheon blends with any decor. The AM and FM tuning dial, tuning meter and stereo indicator light disappear behind the black translucent front panel when the receiver is off. Turn it on and the receiver comes to life in deep green which gives the entire dial scale startling clarity.

Visit your Harman-Kardon dealer at your first opportunity and ask for a demonstration of this distinctive new stereo product. You won't believe that a receiver that sells at such a modest price can deliver such total performance.

QUALITY FEATURES BUILT INTO THE 230A

- No deterioration with age because there's no damaging heat. You can expect the same high quality performance from the 230A even after years of extensive use.
- A special electronic circuit automatically switches FM tuner to stereo the moment a stereo broadcast is received. Special light indicates FM stereo reception. Receiver switches to standard FM automatically when stereo broadcast ends.
- High speaker damping controls excessive speaker excursions to avoid distortion during sharp bursts of sound. This results in clean, tight bass.
- Contour for low-volume listening maintains full bass response even at levels where bass normally falls off.
- Precise D'Arsonval movement tuning meter shows when you have tuned to strongest and clearest signal on AM and FM.
- Stereo in two rooms. Simple front panel switching eliminates the complexity and expense of external switching devices.
- Headphone receptacle permits personal listening.
- Newly designed dial illumination shows AM or FM dial scale independently for maximum visibility. Entire top section of receiver turns black when receiver is switched to phono mode of operation. Illuminated pushbutton ON/OFF switch glows in red to indicate that receiver is on.
- Continuously variable balance control lets you adjust stereo balance to suit acoustic requirements of your room. Permits you to sit far to one side of your room and still maintain perfect stereo.
- Tape Monitor Switch for instant comparison of recorded material and original program.
- Extended frequency response beyond the normal hearing range gives extra realism to the sounds you can hear. 230A sound is cleaner, more transparent, more sharply defined. You can actually feel the difference.
- Separate illuminated power ON/OFF switch permits you to turn receiver on and off without upsetting other controls.
- Heavy, counterweighted flywheel makes tuning smooth as silk.
- Two year warranty on parts and labor.

SPECIFICATIONS

Power Output: Total 20 Watts, RMS, into 8 ohms one channel driven at a time.
 Total 17 Watts, RMS, into 8 ohms both channels driven simultaneously.
 Total 35 Watts, IHF.
 Total 45 Watts, ± 1 dB.

Frequency Response: ± 2.0 dB 7 – 130,000Hz
 ± 1.5 dB 15 – 70,000Hz at normal listening level.

Hum and Noise: Residual (Minimum Volume Hum): 70 dB
 Phono: 55 dB.

Square Wave Rise Time: 3.0 microseconds.

Stability: Stable with all types of speakers.

Intermodulation Distortion: 0.2% at one watt level. 0.5% at rated output before clipping.

Total Harmonic Distortion: 0.25% at 1 Watt at 1kHz. Less than 1% at rated output.

Tone Control Range: ± 12 dB bass and treble boost and cut.

Damping Factor: 25:1

Usable FM Sensitivity: 2.7 microvolts, IHF

Image Rejection: Better than 40 dB.

Spurious Response Rejection: 60 dB

Stereo Separation: 30 dB

FM Harmonic Distortion: 0.6%

AM Sensitivity: 75 microvolts per meter.

AM I.F. Rejection: 40 dB

Image Rejection: 45 dB

Dimensions: 14 $\frac{3}{8}$ " W x 7 $\frac{1}{8}$ " D x 3 $\frac{3}{8}$ " H.
 15 $\frac{3}{8}$ " W x 4" H Escutcheon size.

Shipping Weight: 14 lbs.

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