



# harman/kardon®

Power for the digital revolution.™

## Why Harman Kardon Selected The Crystal® DSP Circuit

### Custom-Designed Architecture for Audio Applications

- Better performance for audio playback.
- Most highly integrated audio decoder in the world.

### Decoder Uses Dual, 24-Bit DSP Cores on One 44-Pin Chip

- Saves space – less chance for noise transfer between digital and analog circuits.

### The Only DSP Circuit with Dolby® Digital Bass Manager, Crossover Filters, and Pro Logic® Decoder Delay Memory in DSP

- Delivers superior audio performance by using a circuit design with a shorter, simpler signal path.

### Automatic Detection of Dolby Digital, DTS®, HDCD® and PCM

- More intuitive operation of the receiver.

### Automatic Error Concealment Using On-Chip RAM Buffers

- Few or no pops and clicks heard when bad data is detected – no dropouts.

### Programmable-Chip Architecture (Firmware)

- Flexible approach allows Harman Kardon to offer exclusive Logic 7® and VMaX® technology using one DSP chip.

### Flexible Audio Peripheral Interfaces

- The Crystal chip is compatible with various digital input formats, including PCM, used by a CD or laserdisc player, or Dolby Digital and DTS digital inputs used by a DVD player.
- The Crystal chip is also compatible with a wide range of ADCs and DACs, giving Harman Kardon flexibility to design receivers that deliver the highest quality audiophile-grade performance possible.