

harman/kardon®

Power for the digital revolution.™

Logic 7®

Operation of Logic 7 "C" (Cinema) and Logic 7 "M" (Music)

Logic 7 is a new and exciting surround-sound process featured on the AVR 500 and AVR 7000. Logic 7 is actually implemented as two separate modes, Logic 7 "M" and Logic 7 "C"; tailored to music and movies, respectively. When used properly, Logic 7 "M" and Logic 7 "C" significantly enhance the enjoyment of watching a movie or listening to music. These modes are designed to provide the listener with a 5.1 channel presentation from sources that were not encoded with 5.1-channel information.

Logic 7 C (Cinema)

Logic 7 "C" (Cinema) mode is designed for use with matrix-encoded (e.g., Dolby® Surround) sources only. These include VHS, television programming, cable and satellite programming, and many DVDs. Due to the specific tailoring of Logic 7 "C" for matrix sources, it is not recommended that this mode be used with two-channel sources (Logic 7 "M" has been designed for these sources, as explained below). Logic 7 "C" will provide significantly greater center-channel intelligibility than Pro Logic, producing clearer dialogue and more dynamic impact from gunshots, explosions and other center-channel-focused activity. The listener will also experience improved steering, a wider soundstage, left and right passing signals, and pans. Logic 7 "C" also directs low-frequency information to the subwoofer output, thereby simulating a digital LFE (low-frequency effects or ".1") channel. These combined technologies, incorporated in Logic 7 "C," will provide exhilarating surround effects that greatly surpass Pro Logic while rivaling many Digital 5.1 recordings.

Logic 7 M (Music)

Logic 7 "M" (Music) mode is designed specifically for use with two-channel recorded sources and is engineered to provide accurate reproduction of vocals, background vocals and music. These sources include most CDs, concerts, FM broadcasts and music material. When playing these sources, Logic 7 "M" will dramatically enhance the listening experience by presenting a wider soundstage with more balanced rear ambience from two-channel-recorded sources. Logic 7 "M" also directs low-frequency information to the subwoofer output, thereby simulating a digital LFE (low-frequency effects or ".1") channel. This will enable consumers to listen to their material as if it were originally recorded in 5.1. How is this possible? Logic 7 "M" re-creates a soundstage similar to that of a live concert. On James Taylor's *Live at the Beacon Theater*, you hear Taylor (the lead vocal) centered in front of you (center channel) with the band spread across the three front speakers, while the audience is located behind you (rear speakers). When this DVD is played in its Dolby Digital 5.1 mix, the soundstage is created in the same fashion, maintaining the realism of performers in front and audience behind. In both mixes, every nuance of the band, the singers and the audience is decoded into the rear channel to further enhance the live experience.

Visit the Harman Kardon Web site at www.harmankardon.com.