

MERIDIAN M30 ACTIVE LOUDSPEAKER

Meridian have been designing and building the finest music systems for nearly a decade. This small English company has earned the reputation of the world's best and most experienced designers of active loudspeaker systems.

The M30 is the most compact model in Meridian's new third generation of active loudspeakers.

Unlike the more usual arrangement in which 'passive' loudspeakers are driven from a separate power amplifier, the Meridian M30 'Active' loudspeakers contain electronics, and can be driven directly from a preamplifier or directly from a CD player or TV system.

Inside each M30 loudspeaker there is a generous power supply and two separate power amplifiers, arranged to power the drive units at the front individually. The signals for each of these power amplifiers are produced by a precision electronic crossover unit. This crossover defines the role of each driver in the loudspeaker much more accurately and consistently than is possible in a passive system. The M30 active loudspeakers provide detailed, precise and articulate sound reproduction and are particularly good at separating out very low-level sounds which contribute so much to the realism and ambience in the music.

At Meridian we believe that high quality sounds can best come from a small loudspeaker. This is somewhat at variance with other views. The reasons are that a smaller loudspeaker, apart from being easier to install, radiates sound in a more 'familiar' way—more like a speaking person—and this results in an easily interpreted sound, producing solid stereo images and the illusion of being at the performance. A smaller loudspeaker also gives less colouration due to cabinet vibration.

Normally a small loudspeaker is deficient in either efficiency or bass response. This is not the case with the M30. Here the advantages of built-in electronics really score in producing large efficiency improvements and better bass. The interactive bass system developed by Meridian achieves bass performance equal to a passive sealed loudspeaker of eight times the cubic capacity, with the result that the M30 plays down to nearly three octaves below middle C.

The new generation of active loudspeakers from Meridian have user-switchable features including music turn-on from standby, and a range of response selections to allow the speakers to be adjusted for room acoustics or to operate close to a wall or on a bookshelf. They feature switchable balanced/unbalanced inputs, including a new multiway connection intended to carry data in future networked systems.

The M30 is the best quality compact loudspeaker available today.

SPECIFICATIONS

Frequency response	38Hz - 20kHz $\pm$ 3dB
Maximum output	106dB spl
Sensitivity	0dBm (775mV) over 22k (bal or unbal, internally adjustable to -20dBm, 78mV)
Power amplifiers	70W bass system, 70W tweeter system
Noise	<20dB spl @ 1m
Distortion	<0.01% 38Hz - 20kHz all power levels
Connections	RCA phono socket 2 $\times$ 6-way audio and data

Music Sensing The electronics detect the start of a sequence of music, and automatically activate the loudspeaker system. About 10 minutes after the end of the music the system reverts to standby mode. In standby the electronics of the crossover and other sensitive signal-carrying parts are kept at running temperature for optimum sound quality; the power amplifiers are allowed to cool. Music sensing may be switched off.

Controls	via 8-way DIL switch on back panel: Music sensing. Input balanced or unbalanced. Electronics grounded or floating. Bookshelf equalisation 10 response settings for room acoustics matching.
Power requirements	Switchable 120V/240V 50/60Hz Internal adjustment for 100V/110/220V
Consumption	Max 200VA, Idle 30VA, Standby 6VA.
Protection	Internal fuse. Thermal detectors mute system and revert to standby.
Indicator	Two-colour led at front shows green standby, red operating.
Drivers	1 $\times$ 130mm paper-coned bass/mid 1 $\times$ 35mm soft-dome ferrofluid-damped tweeter
Cabinet	Constructed from 19mm panels finished in highest quality veneers. Black ash standard finish.
Dimensions (WHD)	18 $\times$ 38 $\times$ 30cm (7 $\times$ 15 $\times$ 12in)
Weight	7Kgs

M30 is supplied with connecting cables in UK but not in some Export Markets.

Each M30 contains a novel double-filtered 135VA power supply, a sophisticated electronics crossover and two class AA non-switching power amplifiers, each enhanced with dc-servo controls for stable sound and excellent high-level performance.

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