

BOOTHROYD STUART
MERIDIAN[©]



M100 ACTIVE LOUDSPEAKER

MERIDIAN M100 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 M100 is the largest model in Meridian's new third generation of Active loudspeakers.

All Meridian Active loudspeakers share the same quality and the same amplifiers. Selection of the most suitable model will depend mainly on the size of the listening room and the level required—the quality is assured.

Unlike the more usual arrangement in which 'passive' loudspeakers are driven from a separate power amplifier, the Meridian M100 'Active' loudspeakers contain electronics, and can be driven directly from a preamplifier or directly from a CD player or TV system.

Inside each M100 loudspeaker there is a generous power supply and four separate power amplifiers, arranged to power the drive units at the front and sides. The signals for each of these power amplifiers are produced by a precision electronics 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 M100 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 compact 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.

This is why the M100 has a narrow frontal area and despite its formidable volume level retains the precision of a compact loudspeaker such as the Meridian M30.

Normally a loudspeaker is deficient in either efficiency or bass response. This is not the case with the M100. 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 M100 plays down to 33Hz.

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 M100 defines the state of the art for active loudspeakers. It has been built with extreme care from the finest materials and should provide a reference to which only the live performance can be matched.

SPECIFICATIONS

Frequency response	33Hz - 20kHz $\pm$ 3dB
Maximum output	113dB spl
Sensitivity	0dBm (775mV) over 22k (bal or unbal, internally adjustable to -20dBm, 78mV)
Power amplifiers	140W bass system, 70W mid, 70W tweeter system
Noise	<20dB spl @ 1m
Distortion	<0.01% 33Hz - 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. 10 response settings for room acoustics matching.

Power requirements Switchable 120V/240V 50/60Hz
Internal adjustment for 100/110/220V.

Consumption Max 400VA, Idle 60VA, 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 4 $\times$ 110mm plastic coned bass
2 $\times$ 110mm plastic coned/mid
1 $\times$ 35mm soft-dome ferrofluid damped tweeter

Cabinet Constructed from 19mm panels finished in highest quality veneers. Black ash and walnut standard, others to order.

Dimensions (WHD) 43 $\times$ 105 $\times$ 49cm (17 $\times$ 41 $\times$ 19in)

Weight 46Kgs

Each M100 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.

BOOTHROYD STUART LIMITED

13 CLIFTON ROAD
HUNTINGDON, CAMBS PE18 7EJ
Tel (0480) 57339
TELEX 32577 MERIDN