

ADVANCE
PRESS RELEASE



The Meridian M10 Interactive system sets by design a new high standard in loudspeaker performance.

This design results from fundamental research into the psycho-acoustic and engineering factors which affect the musical performance of loudspeakers. We have particularly concentrated on the system's ability to reproduce fine detail in complex musical passages over a wide dynamic range, and on an extraordinary ability to render pitch and melody.

This big brother of the highly regarded M2 system sets out to reproduce correctly spatial and dimensional aspects of the sound by presenting, like the M2, a virtual point source of sound with 'man-like' symmetrical horizontal and vertical dispersion.

Mid-range frequencies are handled by the two 5" units mounted above and below the 2" dome tweeter on the front face, and these two units operate in a separate, highly-damped enclosure.

The bass system uses the Inter-Active principle common to all our active loudspeakers, and employs

four directly driven 5" drivers, two mounted each side, and an 8" x 12" passive radiator mounted behind the virtual source. This system produces clean and very powerful bass.

To avoid musical pitch problems the crossover from bass to mid is at 190 Hz – an unusually low frequency, and a new form of linear phase high-order (24 dB/octave) filter is employed to retain transient and spatial integrity. The upper crossover is a time delay compensated all-pass at 2 kHz using fourth order – for low colouration.

Like all our loudspeakers the M10 is a dedicated complete active system. Four power amplifiers, an electronic crossover and two power supplies are contained in the lower part of the cabinet.

The M10 is ideally used with either the Meridian 101 or 101B (balanced line) control unit and is supplied in a variety of wood finishes, complete with all cables.

SPECIFICATION

Response	-3 dB at 33 Hz and 24 kHz
Sensitivity	-20 dBm balanced for 86 dB spl at 1 m 1 kHz.
Output maximum	typically 110 dB on programme.
Noise	less than 24 dB spl.
Crossovers	± 24 dB acoustic at 190 Hz and 2 kHz.
Amplification	Four power amplifiers similar to 105 are used. Two rated at 75 W drive the bass system, one of 75 W powers the mid-range and 35 W for the tweeter.

Distortion	In the whole electronic system less than 0.02% at all levels and frequencies typically less than 0.01%.
Size	1 m (39") high, 0.41 m (16") wide, 0.46 m (18") deep.
Weight	32 kg (70 lbs) each.

BOOTHROYD STUART LTD

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