

## 78as loudspeaker

The Mission *78as* is a sophisticated, twin bass driver, active subwoofer designed to provide a solid low-frequency foundation for music and films. It achieves high performance standards by virtue of careful attention to design details and is capable of delivering weight and authority in equal measure.

- High performance from actively driven and equalised twin 200mm drive units suits both AV and stereo sources.
- Ultra-rigid, twin U-section *TFACT* enclosure formed from 30mm wood veneered MDF reduces box coloration to a minimum. *78as* is supplied with carpet piercing spikes for improved low frequency definition and attack.
- Fully shielded design gives greater placement flexibility.
- Ultra-low distortion, integral 250W analogue amplifier and crossover based upon audio grade, low noise FET op amps dedicated for low frequency performance. Includes full thermal protection.
- Extra-long throw bass drivers featuring 40mm voice coils on double layer, high temperature aluminium formers provide an extremely high BL figure (15.4 Tm). This permits exceptional low frequency performance from a relatively compact enclosure. Generating large amounts of back-EMF the drivers are well damped by the integral amplification ensuring the *78as* delivers a lightning fast transient response.
- The implementation of twin bass drivers instead of a single larger unit endows *78as* with exactly the kind of impact and agility necessary for today's complex film and music mixes. The effective acoustic radiating area is equivalent to a 300mm (12") cone.
- The adjustable cross-over frequency and phase switch ensure the correct blend of bandwidth, phase coherence and sensitivity, enabling seamless integration with almost any size/power hi-fi and AV loudspeakers.
- A separately controlled LFE input, which bypasses the internal cross-over filter, allows simple connection to digital home theatre systems equipped with dedicated LFE outputs for improved performance. The associated loop-through output operates independently of the LFE gain control and can be used to feed a second subwoofer.

### features

Twin bass unit design  
Shielded magnet assemblies

Tuned box design

High BL bass units

Ultra high excursion LF units  
Excursion limiter

Minimum phase High Pass filter

Unfiltered LFE input with gain control

Carpet spike mechanical grounding

### benefits

Effortless dynamics and agility.  
Allows the subwoofer to be located in close proximity to CRTs.

Twin anti-turbulence ports with optimum internal damping.  
Minimal transient overhang due to increased amplifier control.

High output and extended low frequency performance.  
Prevents damage to the LF motors during demanding conditions.

Low Q filter contours lower region LF response to reduce over-load induced boom and overhang.  
Short signal path/direct connection if using an external crossover.

Improved low frequency definition and attack.

## construction

Enclosure

30mm wood veneered MDF panels. Ultra-rigid Transverse Folded Cabinet Technology (*TFC*)

## electrical

L.F. Unit

Twin 8" (200mm) Nomex cone drivers comprising 40mm voice coil and double layer high temperature aluminium former, with shielded magnets.

Crossover

Integral active design with overdrive limiter.

Terminals

Loudspeaker level stereo inputs and loop-through outputs.

Stereo line level inputs.

LFE input and loop-through output with independent gain control.

## specifications

Enclosure type

Tuned Bass Reflex with twin anti-turbulence ports.

Frequency response  $\pm 3$ dB

32Hz – 150Hz

Cross-Over Frequency Control

50Hz – 150Hz

Phase Adjustment

0/180°

LF Response (-6dB)

25Hz

Amplifier

250 Watts analogue with thermal protection

Acoustic Radiating Area

Equivalent to a single 305 (12") unit

Effective volume

7.2 litres

Cabinet dimensions (HxWxD)

340 x 614 x 280 (mm), 13¼ x 24¼ x 11 (inches)

Finish

Beech & Black Ash

## setting up

- RUN IN for at least 24 hours before serious listening.
- Use supplied spikes for improved LF definition.
- Experiment with positioning to achieve an even in-room response.