mca SEGOVIA · TRUENO

SEGOVIA ▪ TRUENO 38 is a true 20 - 40kHz response 4 way speaker system.

SEGOVIA features a pure ribbon tweeter, aluminium midrange and upper bass with a passive crossover. A stereo amplifier of 50 - 100W RMS is required.

Segovia crosses over electronically at 130Hz to the Trueno 38 Bass at 36dB/octave.

TRUENO 38 uses a 380mm kevlar and paper Adire driver. This driver is truly long throw, with ±16mm Xmax, necessary to move sufficient air for realistic bass.

A stereo amplifier of 100 - 300W RMS is required. The two Trueno bass units can also be powered from a mono bass amplifier of 200 - 500W RMS: in the latter configuration, the electronic crossover sums the bass output.

Trueno can be independently positioned for best response.

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A NO COMPROMISE SPEAKER SYSTEM

SOUND PRINCIPLES

SEGOVIA with TRUENO 38 Bass is our reference. In our desire to achieve natural music reproduction, a dynamic, neutral speaker with full bass bandwidth was essential.

After extensive development and listening tests, backed up by sound engineering principles and measurements, we arrived at the open dipole configuration, having found other types of speaker loading lacking. Arguably, boxes hinder the most natural sound reproduction.

A DIFFERENT APPROACH

We all listen to hifi in a room: we test our speakers in a room environment. Room effects cause major audible peaks and troughs in the low frequencies.

Room effects are unavoidable. Speaker drivers in boxes, regardless of design or cost, exacerbate the effect. Most listeners become conditioned to bass that is flawed.

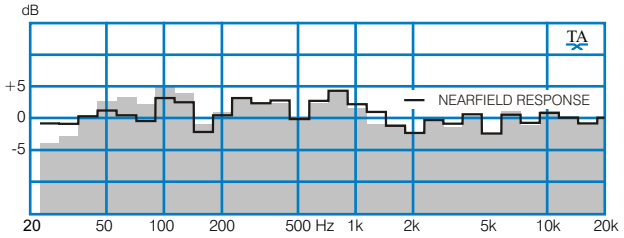
The acoustic properties of dipole bass eliminate much of this undesirable room coupling. Almost by definition, dipole bass does not sound boomy or constrained. It may sound “quiter” than usual despite being flat from 20Hz up as in the Segovia Trueno system.

A dipole speaker has neither cabinet resonances nor high pressures to excite panels. Bass drivers are not compromised and there is an absence of port and non-linear compression effects, internal reflected waves and the usual problems caused by enclosing drivers in boxes.

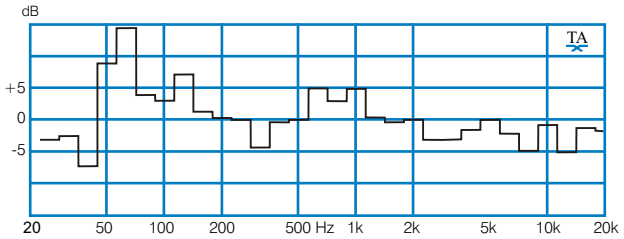
Heavy, braced, non-parallel walls and other methods of cabinet construction are necessary to deal with just these problems in conventional speaker cabinets.

Dipole speakers are uncommon. Implementation requires exceptional drivers. They have to move much more air for realistic sound levels due to out of phase cancellation. Non-linearity cannot be tolerated and there is little opportunity to damp an unruly response. Such drivers come at a price.

We like true ribbon tweeters as no other type can match their smooth effortless characteristics with a response up to 40kHz.

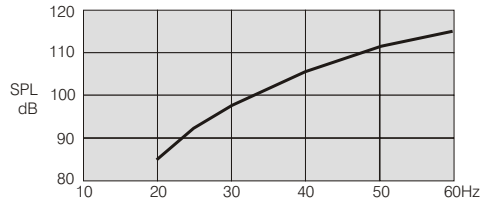


SEGOVIA TRUENO 38 ROOM RESPONSE



TYPICAL REFLEX ROOM RESPONSE

MCA SEGOVIA TRUENO 38 SPECIFICATIONS

Frequency response		20 - 40kHz (-6dB)
Sensitivity		89db, 2.82v / 1m
Nominal impedance		5.5 ohms down to 3.5 ohms above 2500Hz
Drive units		75mm pure ribbon tweeter 100mm midrange 250mm upper bass 380mm woofer ±16.4mm throw
Crossovers		Hardwired passive for the main drivers. Electronic crossover / equaliser between bass and main drivers.
Power (based on individual driver rating)		25W 2500Hz - 20kHz 100W 100 - 2500Hz 375W 20 - 130Hz
Power handling (driver excursion limited)		
Dimensions	*Segovia*	Height 1245m (exc spikes) Width 380mm Depth 360mm Weight 25Kg
	Trueno	Height 560mm (exc spikes) Width 504mm Depth 360mm Weight 25Kg
Finishes		Satin lacquered Metallic Silver - cherry veneer plinth. Satin lacquered veneer and solid lipping - cherry or black walnut with satin black plinth. Black piano lacquer - black walnut plinth. Other colours, veneers and finishes to order.

Marshall Choong Audio
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