



Install
Sound



Vortis VR10810

The VR 10810 is a professional two-way fullrange speaker with an integrated passive crossover. Housed in a bass reflex enclosure designed for fixed installation, it is loaded with an 8" woofer and a 1" high-frequency driver coupled to a constant directivity horn. The installed VR 10810 is an excellent solution for speech reinforcement. It may also be deployed for smaller fullrange applications as a mid-/high-range unit in configurations with a subwoofer such as the compact HK AUDIO IL 112 Sub or IL 115 Sub. Beyond that, the cabinet is the perfect complement to larger speakers, for instance, in delay lines and for near-field coverage. Its precise directivity and ability to distribute sound evenly throughout the room comes courtesy of three variations of (asymmetric) horns with 60° x 40°, 90° x 55° and 60°-90° x 55° coverage

patterns. All may be rotated 90°. The housing is made of MDF, coated with impact-resistant paint, and equipped with M10 bushings designed to accept HK Audio mounting hardware. An acoustic fabric covers its sturdy steel grille. This screen is, like the enclosures, available in all RAL colors. The outdoor version features speakers and housings modified to withstand adverse climatic conditions.

Architect Specs

The professional compact speaker system shall be housed in a bass-reflex enclosure, and equipped with an 8" low/mid driver and 1" high-frequency driver coupled to a CD-horn.

The speaker system shall be available with 3 different horn versions: 60° x 40°, 90° x 55°, and an asymmetric horn with 60°-90° x 55° (horizontal x vertical).

It shall be possible to rotate all horns by 90° for an alternate coverage pattern.

The trapezoidal housing shall be made of MDF and coated with a polyurethane finish. The steel grille protecting the cabinet's front shall be covered with a visually opaque, but acoustically transparent fabric. The speaker including the front grille cloth shall be available in any RAL color.

The housing shall include a total of 13 mounting points (metric thread M10) for either vertical or horizontal installation or for affixing safety equipment, with 3 points each on top, bottom and back, plus 2 points each on the left and right sides. For best acoustic results and overload protection the speaker shall be operated in combination with the HK AUDIO DSM2060 or HK AUDIO FIRNET controllers. The appropriate speaker data set for each controller shall be available for download.

The speaker system shall have excellent speech intelligibility and precise coverage patterns with constant directivity from 1 kHz on up with the selected horn.

The speaker system shall have the following specifications:

2-way design with integrated passive crossover, **crossover frequency:** 1,1 kHz.

Frequency response: 84 Hz - 20 kHz (-10 dB).

Sensitivity: 101 dB @ 1W/1m in half space.

Maximum SPL: 118 dB in full space (measured with program spectrum following DIN 60268-01 [dB SPL]).

Nominal power handling: 100 W

Program power handling: 200 W

Impedance: 16 Ohm

Directivity index (DI) for 60° x 40° horn:

12 dB (+/-2.5dB), 1 kHz-16 kHz.

Connectors: 1x Speakon NL4, 2x speaker terminals

Dimensions (H x D x W): 49 x 29 x 24 cm (19-19/64 x 11-27/64 x 9-29/64 in.)

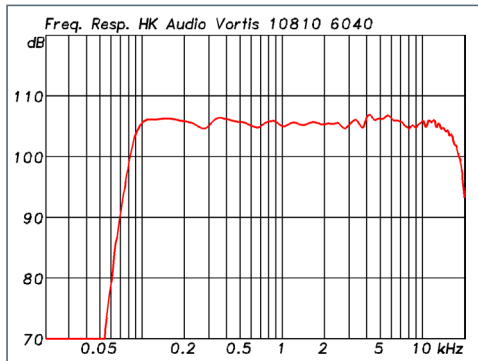
Weight: 11 kg (24-1/4 lbs)

The following accessories shall be available as options for the speaker system:

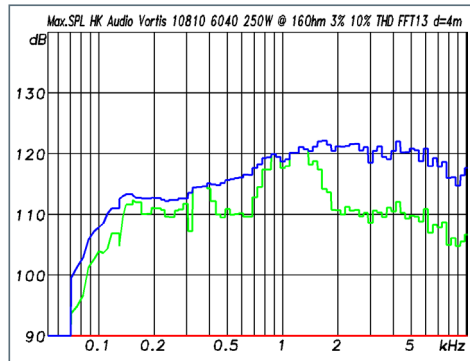
Wall mount plate, Cluster plates for 2 or 3 speakers, U-bracket, adjustable mounting bracket, M10 Ringbolts

The professional compact speaker system shall be called the HK AUDIO VR10810.

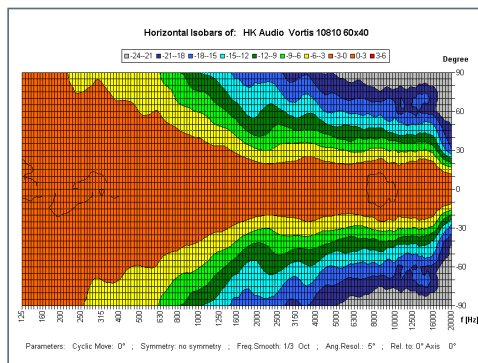
VR10810 performance charts



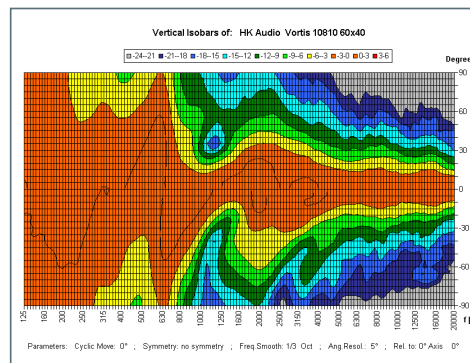
Frequency Response



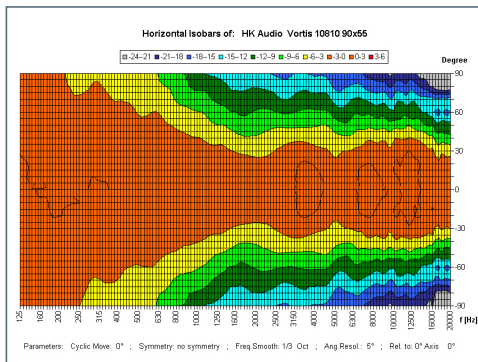
Max. SPL



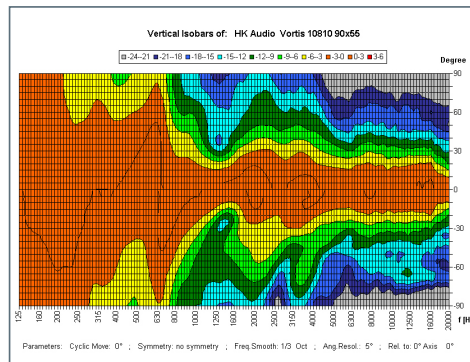
Horn variation 60°x40° horizontal



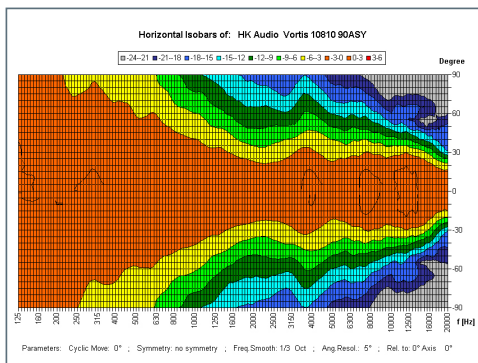
Horn variation 60°x40° vertical



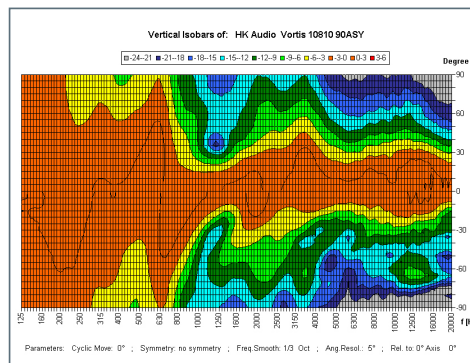
Horn variation 90° x 55° horizontal



Horn variation 90° x 55° vertical

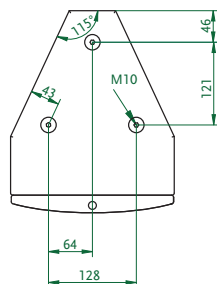
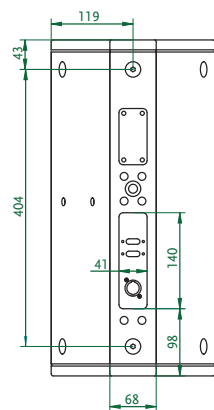
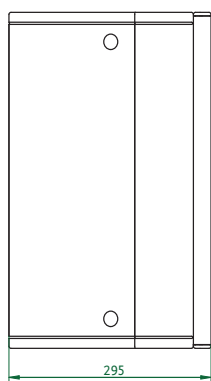
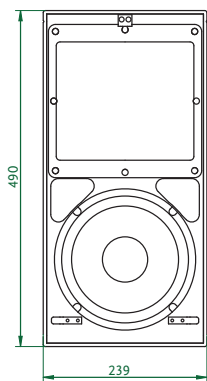


Horn variation 60°-90° x 55° horizontal



Horn variation 60°-90° x 55° vertical

Technical Data



VR 10810	
Power handling capacity nominal	100 watts
Power handling capacity programm	200 watts
Power handling capacity peak	400 watts
Frequency response -10 dB	84 Hz-20 kHz
Crossover	2 way passive
Crossover Frequency	1100 Hz, 2. order
Sensitivity 1W@1m, Fullspace, (100Hz - 20kHz) [dB SPL]	95
Sensitivity 1W@1m, Halfspace, (100 Hz - 20 kHz) [dB SPL]	101
Max SPL 10% THD, DIN 60268-01 Fullspace [dB SPL]	118
Nominal Impedance	16 ohms
Loudspeaker	1 x 8"
High frequency driver	1 x 1"
Horn variations: 60° x 40°, 90° x 55°, 60°- 90° x 55°	yes, rotatable
Directivity Index	Depends on horn variation
Connections	1 x NL 4, 2 x Terminal
Housing	MDF
Filter	Controller *
Finish	Polyurethan lacquer, every RAL Colour
Metal Grille with gloth	yes
Rigging Points	13 x M10
Weight	11 kg; 24 1/4 lbs
Dimensions in cm	49 x 29 x 24
H (inch)	19 19/64
D (inch)	11 27/64
W (inch)	9 29/64
Accessories	Wall mount plate, cluster plate, ringbolts, adjustable mounting bracket, U-Bolt



* For better equalization and overload protection we recommend operating the speakers in combination with the HK AUDIO FIRNET or HK AUDIO DSM 2060 Controller.