The VERA20i loudspeaker is equipped with two 10” chassis for the low-mid frequencies and a newly developed waveguide with an 1.4” mid-high compression driver. Measuring just 60 cm in width, the loudspeaker forms part of a vertical array up to 24 elements.
Compared with typical double 8” systems, the VERA20i‘s two 10” drivers are able to reproduce up to 6 dB more output in the low-mid frequency range with lower distortion.

The newly developed 1.4” compression driver and waveguide are reproducing a smooth and accurate midrange response for natural vocal and music reproduction. The low frequency crossover point around 1 kHz guarantees a precise and uniform coverage even in the sensitive transition range. The extraordinarily fast transient response replays the high frequencies in a very detailed and crispy way.

The compact and appealing design of the enclosure allows a subtle presentation of the VERA20i. Especially when sightlines have to be considered or an array needs to be fitted unobstrusively within the architectural surrounding.

The fully integrated, nearly invisible installation four-point rigging hardware support the discreet optical aspect. A special feature is the logarithmic scaling of the intermediate angles between angles. It enables angles smaller than one degree to achieve a more accurate directivity of the upper array elements over a longer distance. In addition costs for expensive pins and additional frames between subwoofer and tops do not apply.

Key Features

- Symmetrically constructed line source cabinet with 12° vertical splay angle per element
- Equipped with two 10“ long excursion cone drivers and one 1.4“ throat compression driver
- Compact and lightweight enclosure design in respect to acoustical output
- 80° or 120° horizontal dispersion by exchangeable HF horn
- Fully integrated, nearly invisible four point rigging hardware
- Compatible VERA S17i and VERA S32i subwoofer available
- Coherent phase response with all TW AUDiO subwoofers
- Operation with dedicated TW AUDiO presets on Lab.gruppen, Powersoft or Dynacord TGX and IPX amplifiers

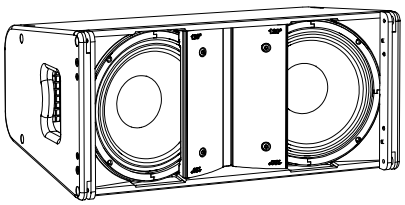
Applications

- Galas, events and shows
- Churches, houses of worship, religious places
- Theatres and cultural places
- Bars and restaurants
- Arenas and sports venues
- Concerts

VERA20i

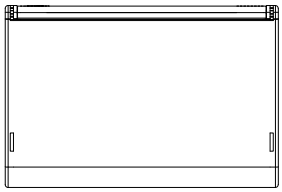
DATASHEET

Technical Data

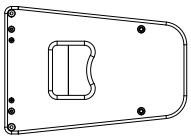


Drivers	2× 10“ LF / 1x 1,4“ HF
Frequency range	63 - 18000 Hz
Power capacity program / peak	1000 / 2000 W
Impedance	8 Ω
Coverage (h x v)	80° x 12° or 120° x 12°
Sensitivity 1 W / 1 m	107 dB
SPL max / 1 m	138 dB
Connection	screw terminal IN± | LINK±
Dimensions (H × W × D)	280 × 600 × 400 mm | 11.02 × 23.62 × 15.75 in
Weight	24.8 kg | 54.7 lbs
Finish	Warnex textured paint (RAL colors optional)
Accessories	see twaudio.com

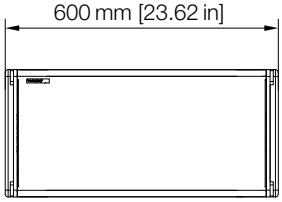
Technical Drawing



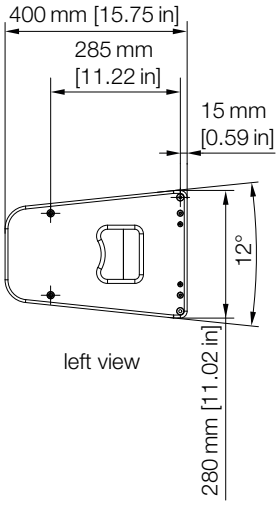
bottom view



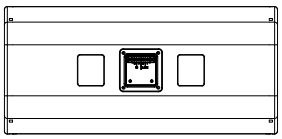
right view



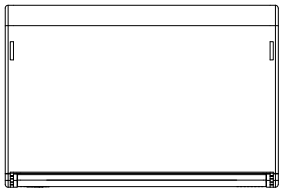
front view



left view



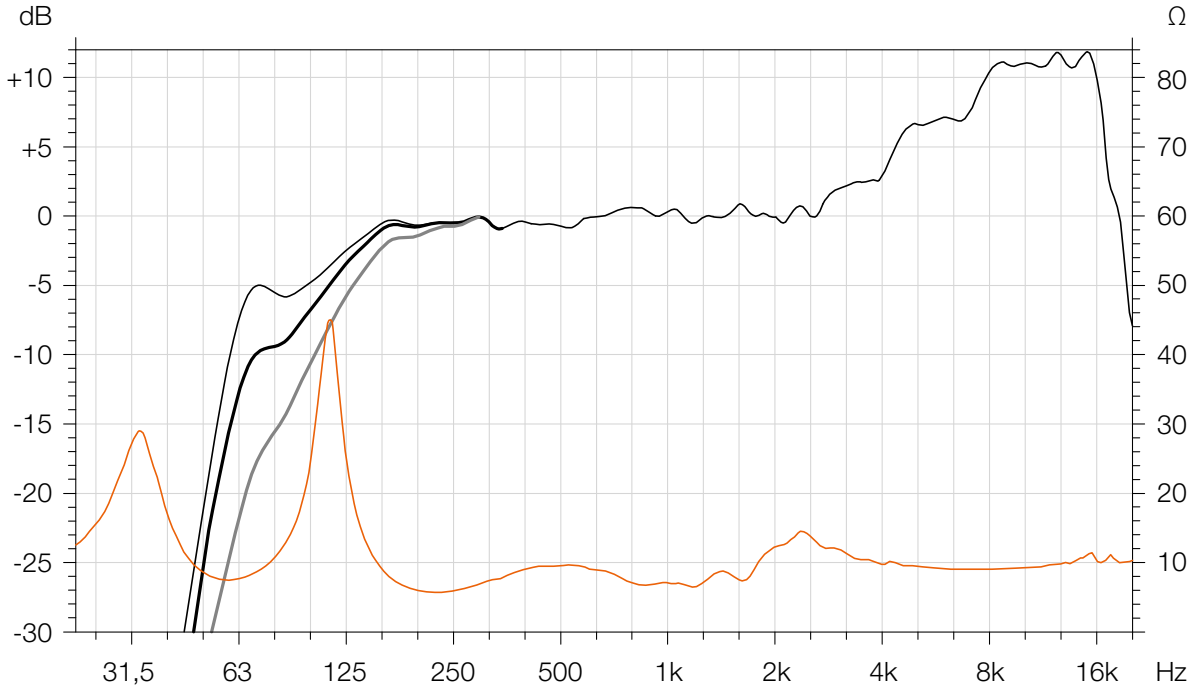
rear view



top view

Frequency Response

FULL mode / **FLAT mode** / CUT mode | IMPEDANCE

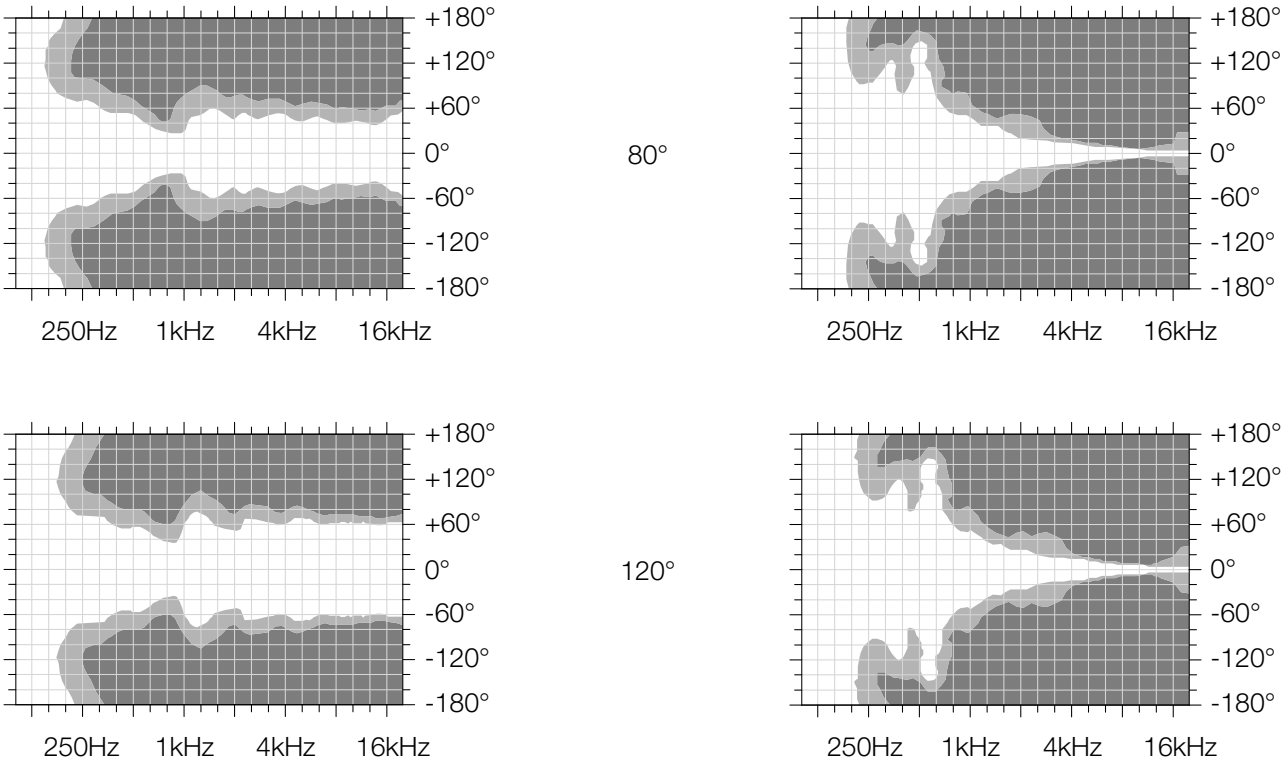


Radiation Pattern

-6 dB | -12 dB

horizontal

vertikal



Architect Specifications

The loudspeaker shall consist of a symmetrically constructed line source enclosure with up to 12° vertical splay angle per element driven and protected by a dedicated powered amplified controller. The loudspeaker shall be a single channel two-way line array cabinet with an internal passive crossover. The loudspeaker shall have a compact and lightweight enclosure design in respect to acoustical output. The loudspeaker shall feature a exchangeable HF horn 80° x 12° or 120° x 12° horizontal dispersion. The enclosure shall feature a nearly invisible four-point-rigging for mounting accessories. The loudspeaker shall be compatible to VERA S17i and VERA S32i subwoofer.

The enclosure shall feature two 10“ long excursion neodymium LF cone drivers with one 1,4“ throat compression driver neodymium. The loudspeaker shall feature a exchangeable HF horn 80° x 12° or 120° x 12° horizontal dispersion.

The usable system bandwidth shall be 63 Hz to 18000 Hz.

Maximum peak SPL shall be 139 dB. The long-term handling capacity shall be 1000 W program and 2000 W peak. The nominal impedance of the loudspeaker shall be 8 Ω.

The enclosure cabinet construction shall consist of first grade birch plywood. The front of the enclosure shall be protected by a perforated, powder-coated steel with flame retardant and hydrophobic, black fabric to the rear. The dimensions shall be 600 mm (23.62 in) in width, 280 mm (11.02 in) in height and 400 mm (15.75 in) in depth and the enclosure weight shall be 24.8 kg (54.7 lbs).

The enclosure shall feature a nearly invisible four-point-rigging for mounting accessories. The four-point-rigging shall feature two splay links at the front and two brackets in the middle of the side for connection with lock washers and screws. The enclosure shall be connected via screw terminals as standard.

The loudspeaker shall be the TW AUDiO VERA20i.

References
The response curves of the system are available upon request – support@twaudio.com

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