Measuring just 60 cm (23.6“) in width, the VERA20 houses two powerful 10“ woofers despite being of a comparable size to many of the less impactive double 8“ cabinets found in the market today. More than many similarly sized compact alternatives, the VERA20‘s double 10“ design packs a punch, delivering a throaty low-mid growl with up to 6 dB more output in the low-mid frequency range plus lower distortion.
Meanwhile the custom chassis boasts a purpose developed waveguide producing 12 degrees vertical dispersion and either 80 or 120 degrees horizontal dispersion, as required. This combines a 1.4“ mid-high compression driver with a 3“ diaphragm to produce sparkling top-end. When you choose VERA20, you can expect a smooth and precise mid-range response that lends itself to sharply defined speech intelligibility and exacting musical reproduction.
In addition, the low frequency crossover point delivers consistently uniform coverage, while the extraordinarily fast transient response contributes to a detailed and crisp performance in the high frequencies.
Crucially, the VERA20 offers you the capacity to form arrays of up to 24 elements, meaning it can be deployed in an extremely broad variety of applications, both inside concert halls and outdoors in arenas. Rigging is speedy, accurate and cost-efficient with the inclusion of TW AUDiO‘s innovative EasyRig™ hardware, with which an entire system can be set up and flown or dismantled by just one technician. That same hardware will also allow you to fly your VERA20 array with incredible precision, setting angles of less than one degree to swiftly achieve unsurpassed accuracy and far longer throws for improved coverage.

Having the same width as the VERA20 and equipped with the same rigging, VERA S32 subs can easily and unobtrusively be integrated into VERA20 arrays.

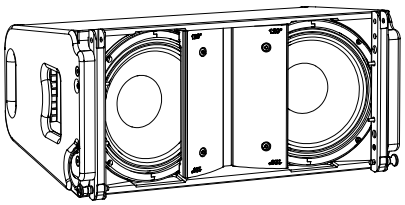
Key Features

- Equipped with two 10“ long excursion cone drivers and one 1.4“ throat compression driver with 3“ diaphragm
- Logaritmic splay angles for more precise alignment to the area to be sounded
- Impressive weight/dimension/performance ratio
- 80° or 120° horizontal dispersion by exchangeable HF-horn
- Innovative rigging hardware for fast and cost efficient setup and dismantle
- Compatible flyable cardioid radiating subwoofer VERA S32 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

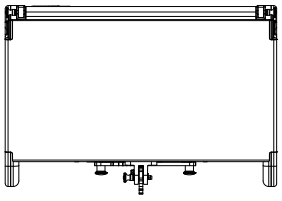
- Galas, events and shows
- Churches, houses of worship, religious places
- Theatres and cultural places
- Bars and restaurants
- Arenas and sports venues
- Concerts and touring

Technical Data

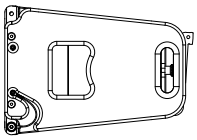


Drivers	2× 10“ LF / 1× 1,4“ HF with 3“ diaphragm
Frequency range	63 - 18000 Hz
Power capacity program / peak	1000 / 2000 W
Impedance	8 Ω
Coverage (h × v)	80° × 12° or 120° × 12°
Sensitivity 1 W / 1 m	107 dB
SPL max / 1 m	138 dB
Connection	speakON® NL4 1±
Dimensions (H × W × D)	285 × 600 × 400 mm | 11.22 × 23.62 × 15.75 in
Weight	24.0 kg | 52.9 lbs
Finish	Polyurea-coated | (RAL colors optional: Warnex textured paint)
Accessories	see twaudio.com

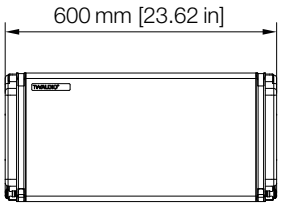
Technical Drawing



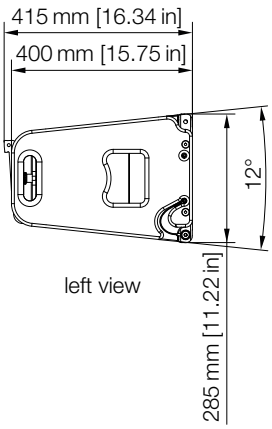
bottom view



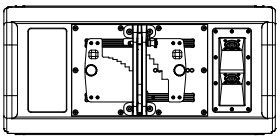
right view



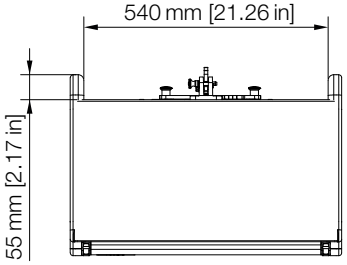
front view



left view



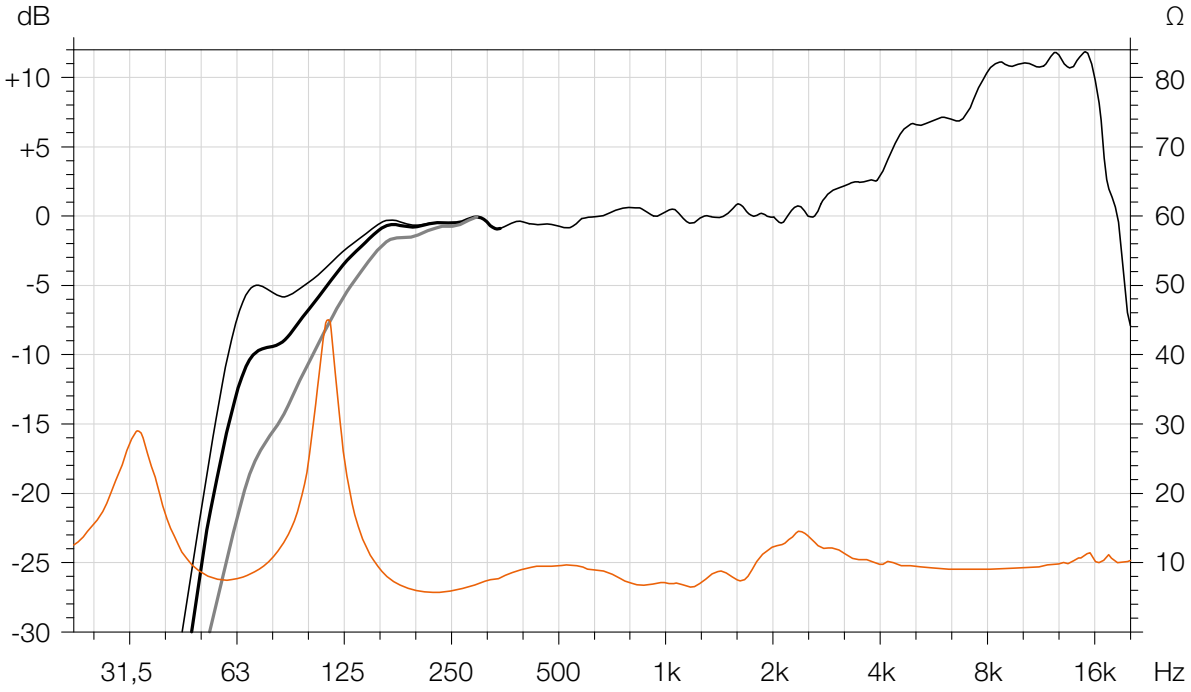
rear view



top view

Frequency Response

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

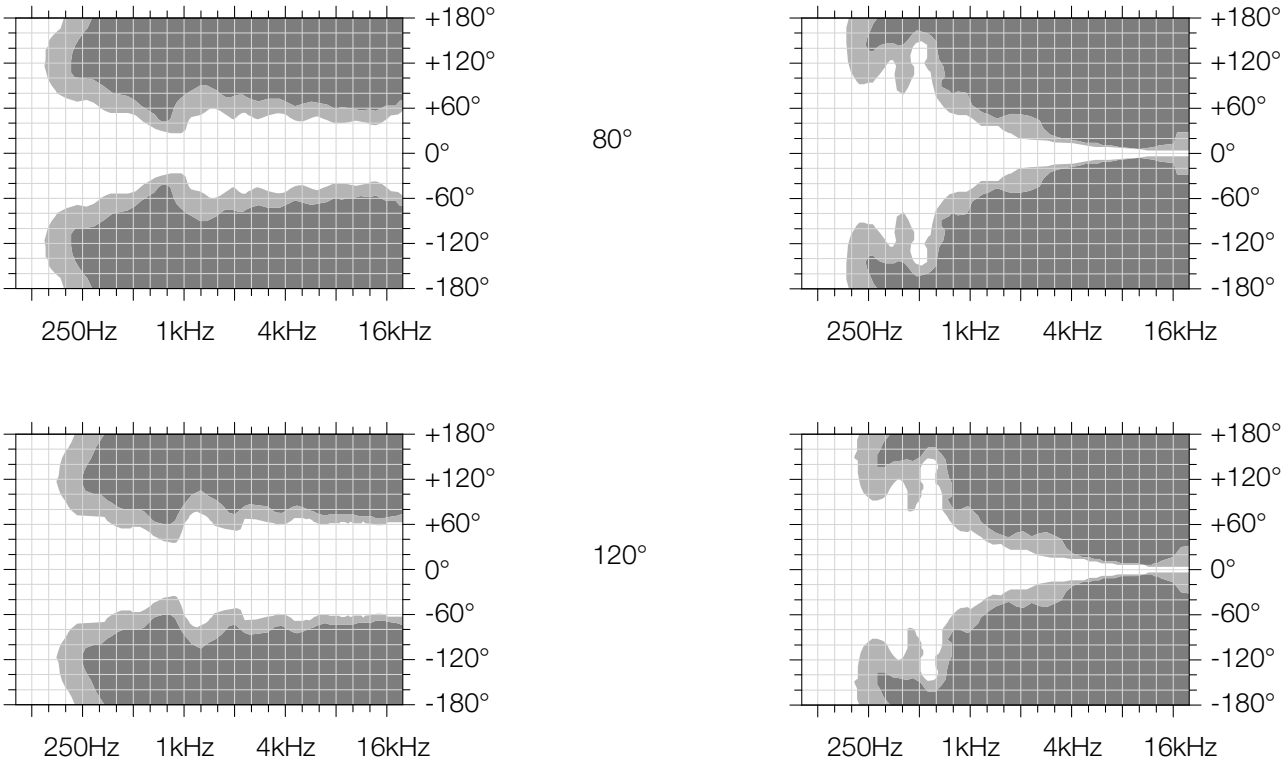


Radiation Pattern

-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 have a innovative rigging hardware for fast and cost efficient setup and dismantle. The loudspeaker shall be compatible to VERA S32 subwoofer.

The enclosure shall feature two 10“ long excursion neodymium LF cone drivers with one 1,4“ throat compression driver neodymium with 3“ diaphragm. The loudspeaker shall have a exchangeable HF horn 80° x 12° or 120° x 12° horizontal dispersion.

The usable system bandwidth shall be 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, hydrophobic and acoustically transparent black 3D mesh fabric. The dimensions shall be 600 mm (23.62 in) in width, 284 mm (11.18 in) in height and 400 mm (15.75 in) in depth and the enclosure weight shall be 25 kg (55.1 lbs).

The enclosure shall feature a innovative four-point-rigging for mounting accessories. The enclosure shall feature four integrated handles. The enclosure shall be connected via two parallel 4-pole speakON® sockets.

The loudspeaker shall be the TW AUDiO VERA20.

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

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MADE IN GERMANY

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