



The ELLA6 loudspeaker is equipped with a 6.5" chassis for the low-mid frequencies and a scientifically developed waveguide with five 1" silk dome tweeters in a very compact symmetrical enclosure with only 20 × 20 cm (7.9in × 7.9in) front surface.

Due to the special acoustical resistors in the back of the enclosure, ELLA6 creates a cardioid directivity pattern over the whole frequency range. Compared to typical speakers of this size, ELLA6 has greatly reduced low-mid emissions behind the box.

The coaxially mounted HF-waveguide with five silk dome tweeters reproduces silky smooth and crisp high frequencies up to 20 kHz with a minimum of distortion, even at highest SPL.

Having 24 ohms per box, multiple ELLA6 units can be connected in parallel - there is no additional amp channel required for the cardioid effect. And with a coverage of 120° × 10° ELLA6 is the perfect front fill or under balcony speaker. The innovative and easy rigging allows fast setup times of flown arrays or stacks.

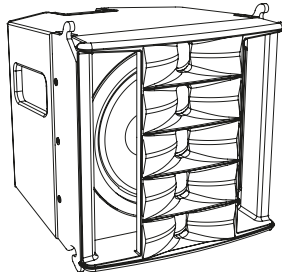
Key Features

- » Symmetrically constructed ELegant Line Array cabinet with a 6.5" high performance driver.
- » Waveguide with five 1" dome tweeters for silky smooth and crisp HF.
- » Coverage 120° × 10° (h × v).
- » Fully integrated and recessed rigging system.
- » Only 20 cm (7.9in) wide.
- » Passive operation of multiple ELLA6 units in parallel - no additional amp channel required for achieving the cardioid effect.
- » Coherent phase response with all TWAUDIÖ subwoofers.
- » Operation with dedicated TWAUDIÖ presets on Lab.gruppen or Powersoft amplifiers.

Applications

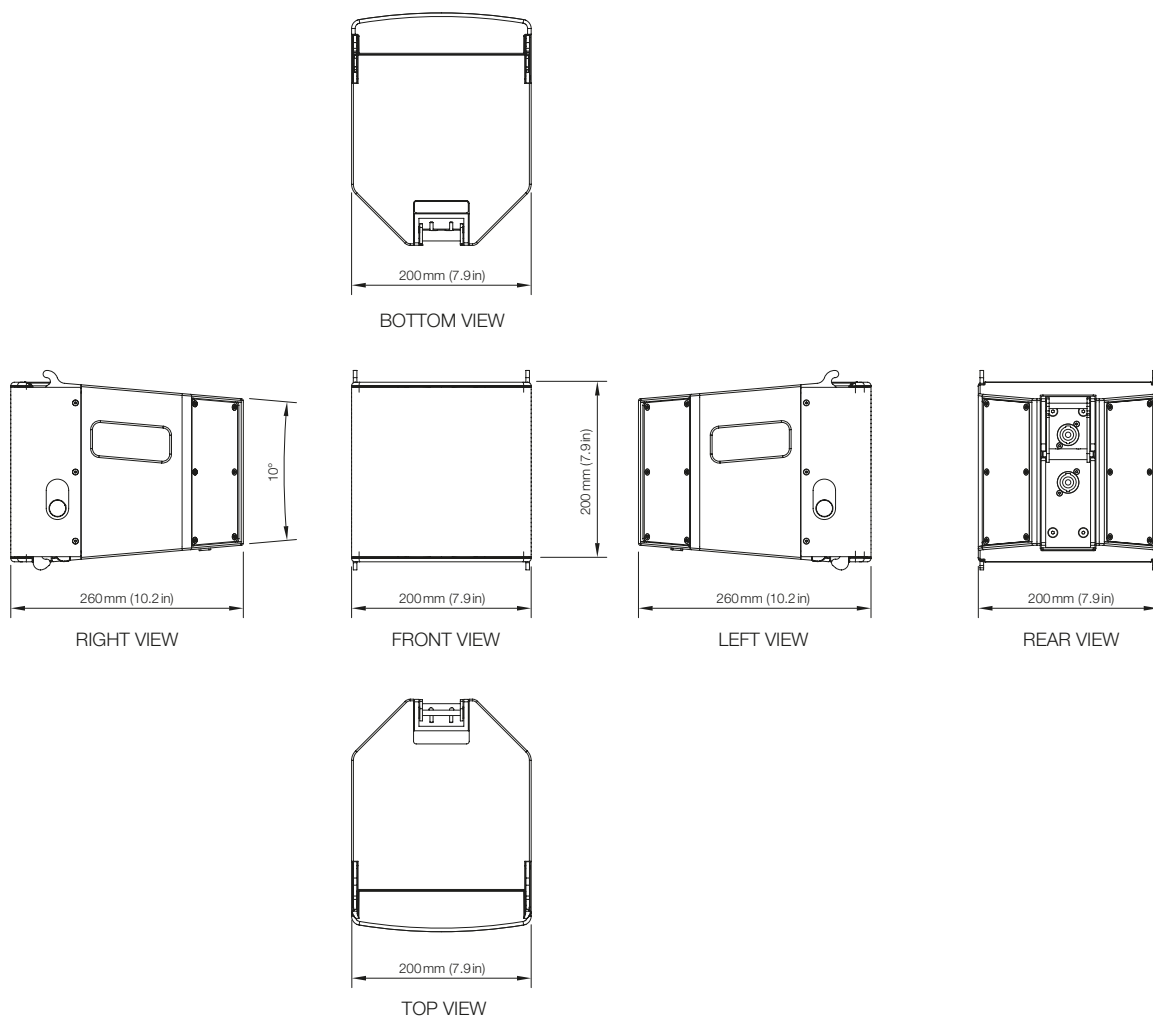
- » Galas, events and shows
- » Churches, houses of worship, religious places
- » Theatres and cultural places
- » Arenas and sports venues
- » Concerts and touring
- » Bars and restaurants

Technical Data

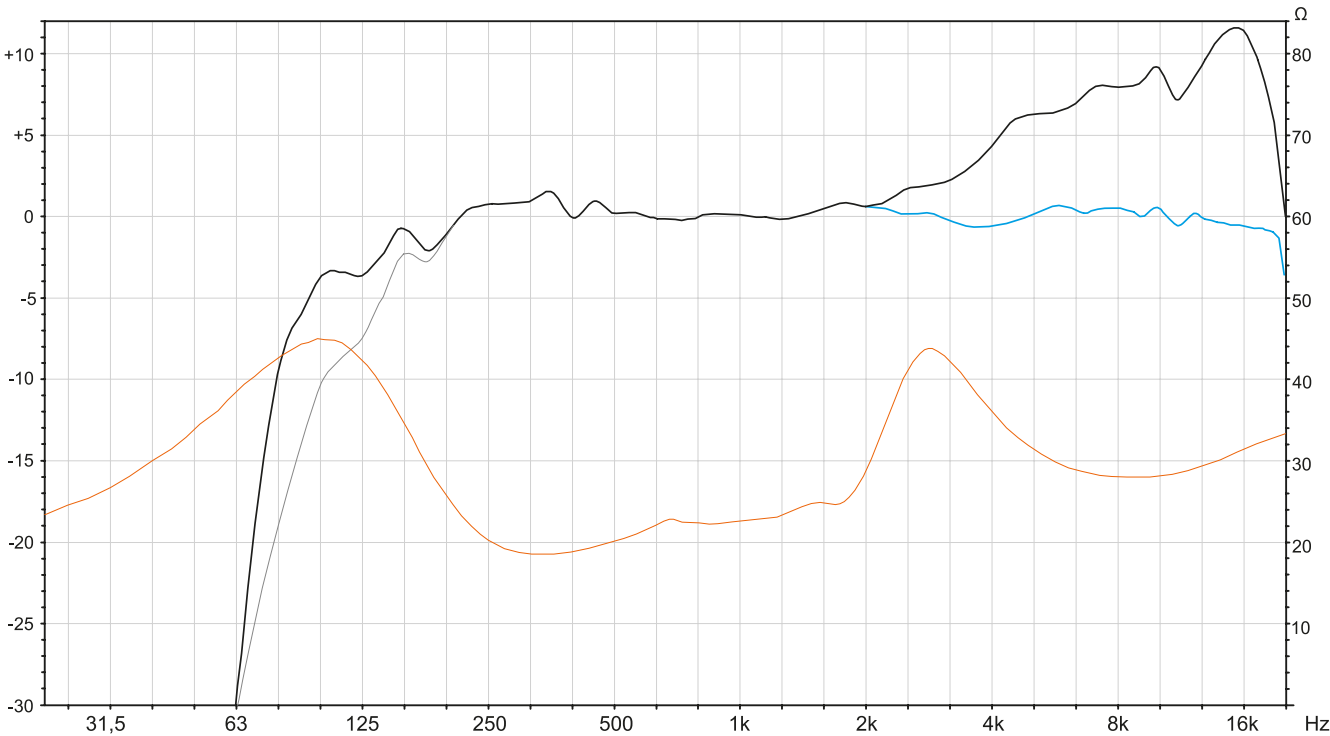


Drivers	1 × 6.5" LF 5 × 1" HF
Frequency range	90 - 20000Hz
Power capacity program/peak	400/800W
Impedance	24 Ω
Coverage (h × v)	120° × 10°
Sensitivity 1W/1m	99dB
SPLmax / 1m	129dB
Connection	speakON™ NL4 1±
Dimensions (H × W × D)	200 × 200 × 260mm 7.9 × 7.9 × 10.2in
Weight	5.5 kg 12lbs
Finish	Warnex texture paint (RAL colors optional)
Accessories	BMP150, RPE6, BPE6, SFE6, GPE6, PME6, HSA, CaseE6, BagE6

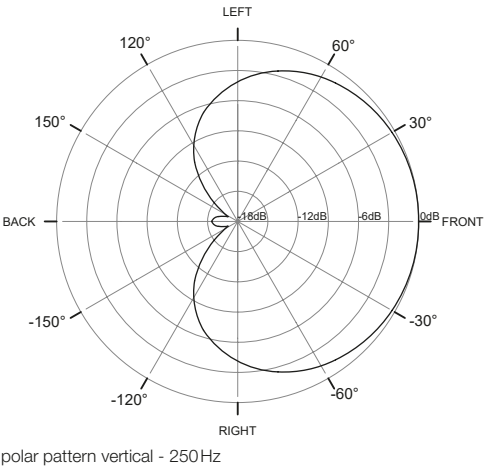
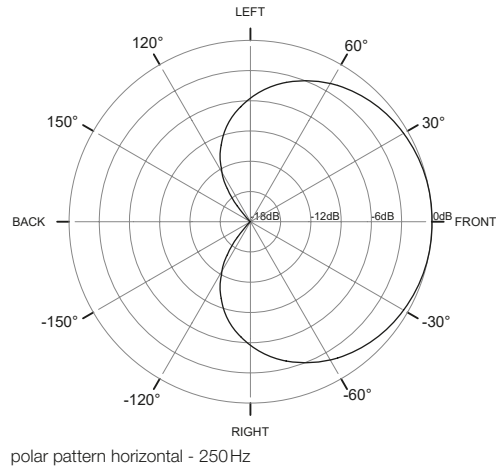
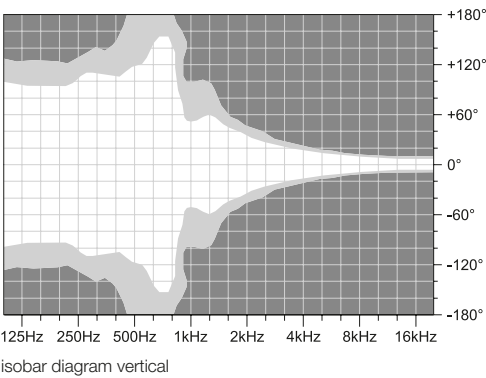
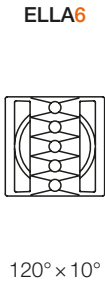
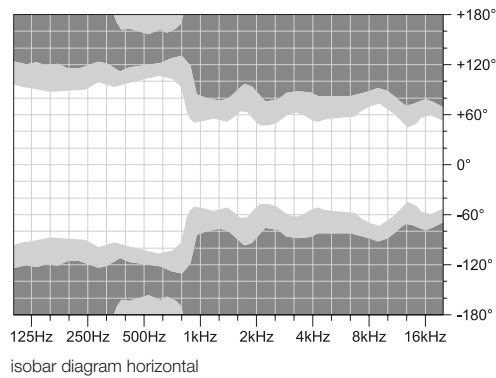
Technical Drawing



Frequency response 120° × 10° **FULL** | CUT | **SINGLE ELEMENT PRESET** | IMPEDANCE



Diagrams -6dB | -12dB



Architect Specifications

The loudspeaker shall consist of a 2-way passive enclosure utilizing specialized passive cardioid directivity by acoustic resistance incorporated in the enclosure and driven and protected by a dedicated powered amplified controller.

The enclosure shall feature one 6.5" neodymium LF transducer mounted behind the waveguide consisting of five 1" neodymium HF, high performance soft-dome tweeters coupled to the waveguide.

The usable system bandwidth shall be 90 Hz to 20 kHz. The driver configuration shall generate a polar pattern coverage of 120° horizontally (-6 dB), independently of the number of vertically arrayed elements. In line source mode, the system shall be curved up to a maximum of 10° for each element without breaking the wavefront.

Maximum peak SPL shall be 129 dB. The long-term handling capacity shall be 400 W program and 800 W peak. The nominal impedance of the loudspeaker shall be 24 Ohm.

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, black fabric to the rear. The dimensions shall be 200 mm (7.87") in width, 200 mm (7.87") in height and 260 mm (10.24") in depth and the enclosure weight shall be 5.5 kg (12 lbs).

The enclosure shall include carefully concealed internal hardware for rigging and shall be used in conjunction with dedicated rigging accessories. The enclosure shall be connected via two parallel 4-pole speakON® sockets.

The loudspeaker shall be the TW AUDIO ELLA6.

References

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

Manufacturer:
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