

Overview

A durable loudspeaker system for installed sound applications in entertainment facilities, with PA-style looks and sound quality, the VKE2012 features a two-way bass reflex design, a 1.4" compression driver for high frequencies, and a 12" cone driver for low frequencies.



Features

- Reproducible frequency range (-10 dB): 55 Hz - 20 kHz
- Generous allowable input: 1400 W
- Maximum sound pressure suitable for professional audio applications: 127 dB SPL
- Nominal dispersion angle ideal for horizontal hanging installation: 70° horizontal × 100° vertical
- Multiple rigging points
- Equipped with a pole socket (bottom, 35 mm) and a handle (one at top rear) for temporary installation

Specifications

General Specifications

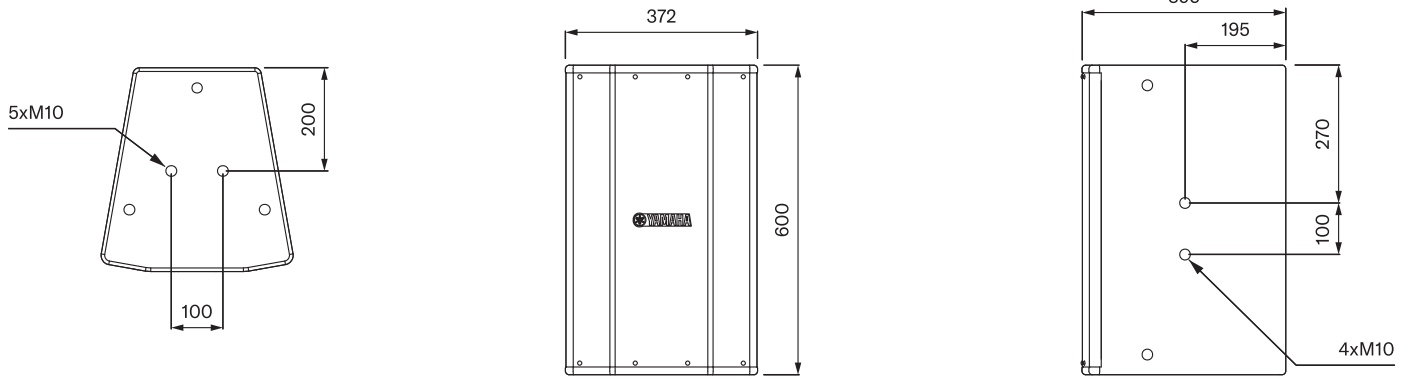
System Type		2-way Speaker, Bass-reflex
Components	LF	Diameter: 12" cone
	HF	1.4" compression driver
Frequency Range (-10 dB)		55 Hz - 20 kHz *1
Crossover		1.5 kHz
Coverage Angle (Horizontal x Vertical)		H70° x V100°
Nominal Impedance		8 Ω
Power Rating	NOISE	350 W
	PGM	700 W
	MAX	1400 W
Sensitivity (1 W, 1 m)		96 dB SPL *1
Maximum SPL (Calculated, 1 m)		127 dB SPL *2
Connectors		Neutrik Speakon NL4MP x 1
Pole Socket		Ø35 mm x 1 (Bottom)
Rigging		M10 x 18
Material, Finish, Color		Plywood, PU painting, Black
Dimensions (W x H x D)		372 mm x 600 mm x 395 mm
Net Weight		19.9 kg

*1 Full-space (4π)

*2 Calculated based on power rating and sensitivity

Dimensions

Unit: mm

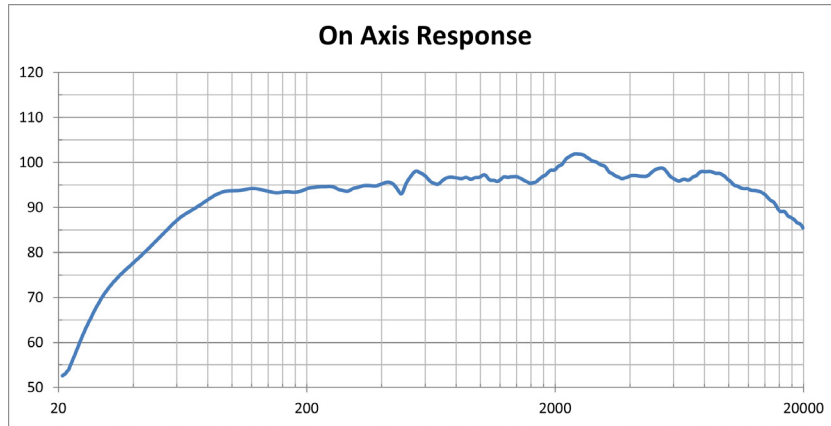


Architectural and Engineering Specifications

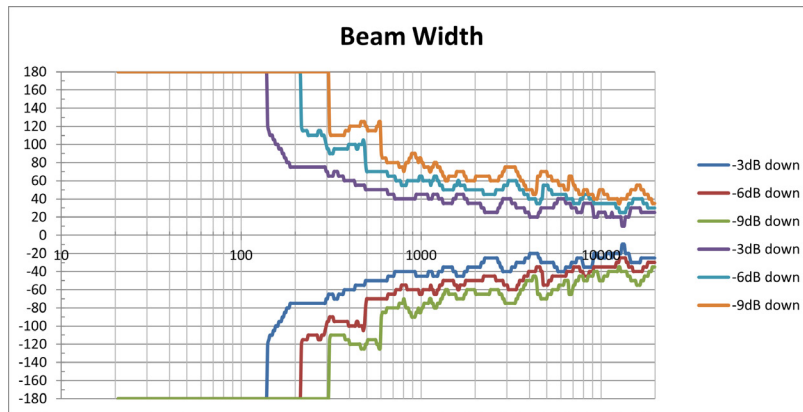
The Yamaha VKE2012 Speaker System shall be a two-way bass-reflex type full-range loudspeaker system having a single 12" cone driver for the low frequencies and a 1.4" compression driver for the high frequencies. The VKE2012 Loudspeaker shall meet the following performance criteria: Sensitivity shall be 96 dB SPL at 1 watt/1 meter, maximum SPL shall be 127 dB at 1 meter, frequency response shall be 55 Hz to 20 kHz at 10 dB below rated sensitivity, crossover frequency shall be 1.5 kHz, and nominal coverage angle shall be 70° horizontal and 100° vertical. Maximum power ratings shall be 350 watts noise, 700 watts program, and 1400 watts peak into 8 ohms. Power limiting shall be provided to protect the high-frequency driver.

The loudspeaker shall have one SPEAKON (Neutrik NL4MP) connector for input. The cabinet shall be constructed of plywood with a black polyurethane finish. The grille shall be black powder-coated punched metal with black backing cloth. The cabinet shall have two threaded mounting points for M10 eyebolts on the top, and two on each side. A 35 mm pole socket shall be provided for pole mounting. Dimensions shall be 372 (W) x 600 (H) x 395 (D) mm. Weight shall be 19.9 kg.

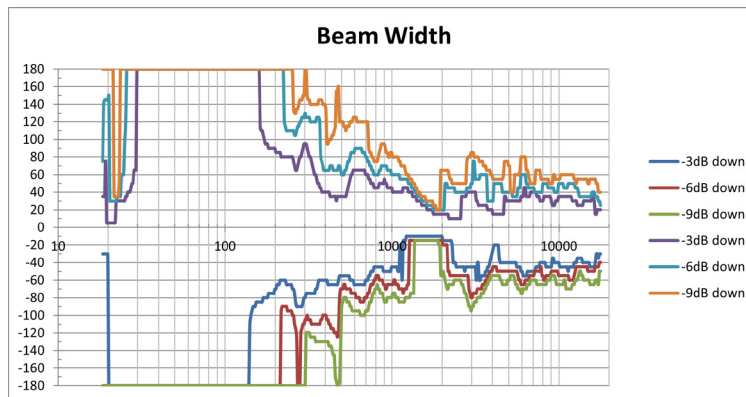
Sensitivity



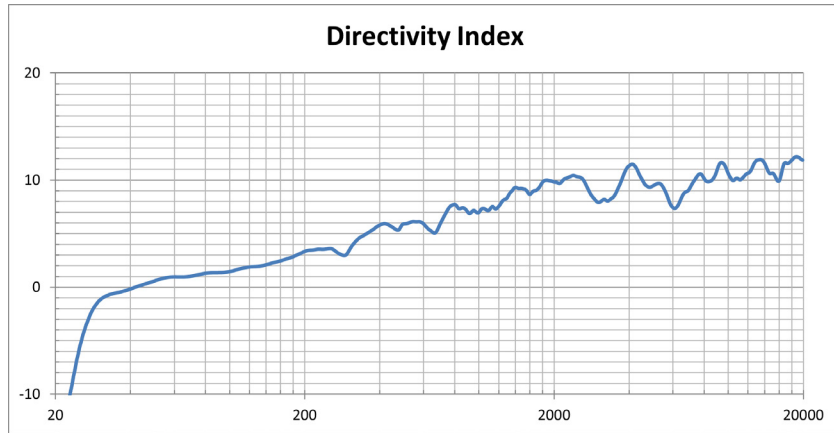
Horizontal Beam Width



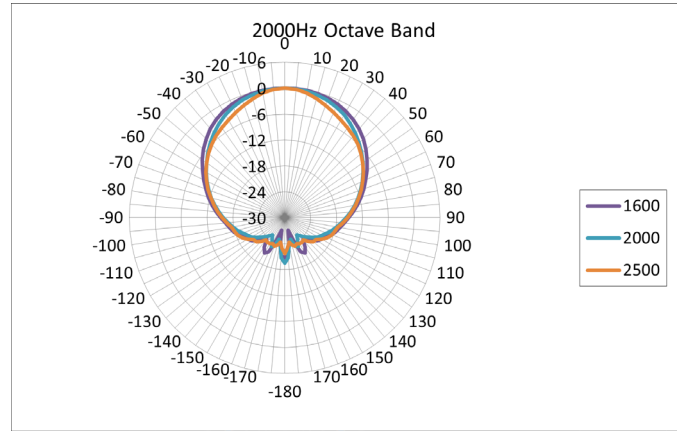
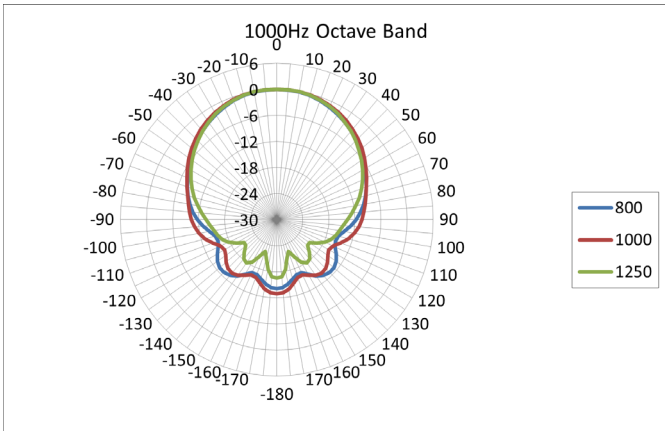
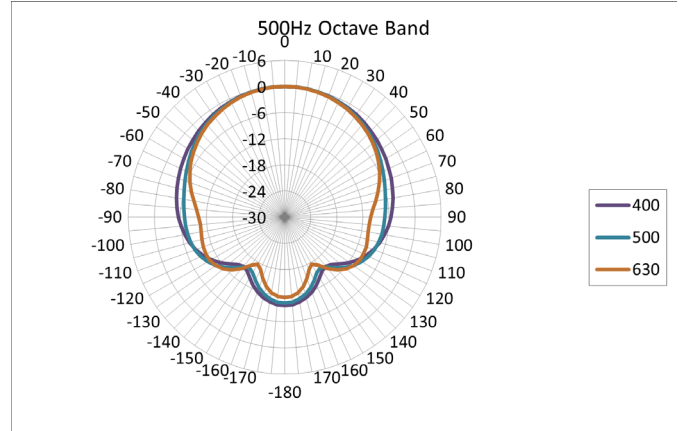
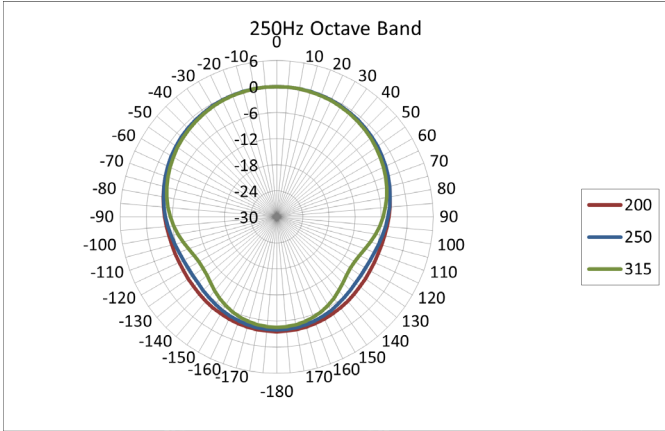
Vertical Beam Width



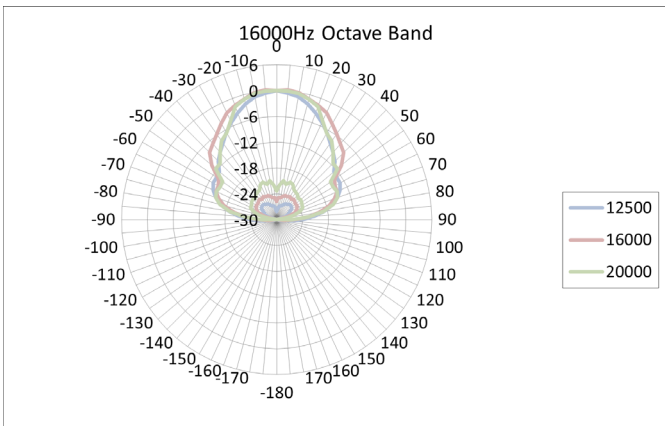
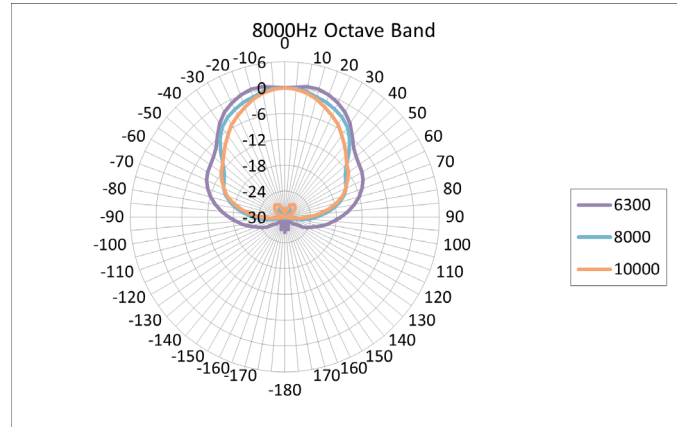
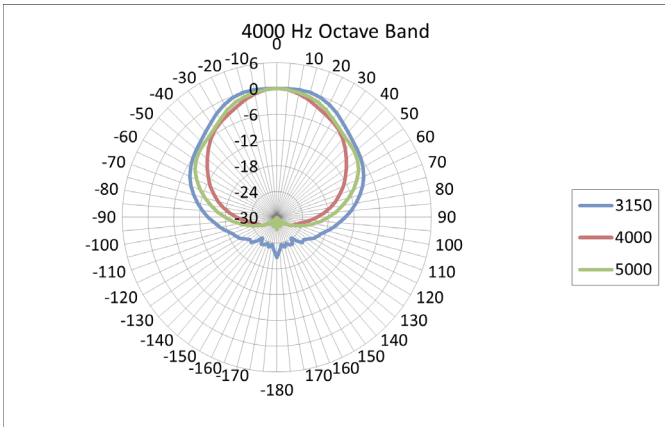
Directivity Index



Horizontal Polar Plots

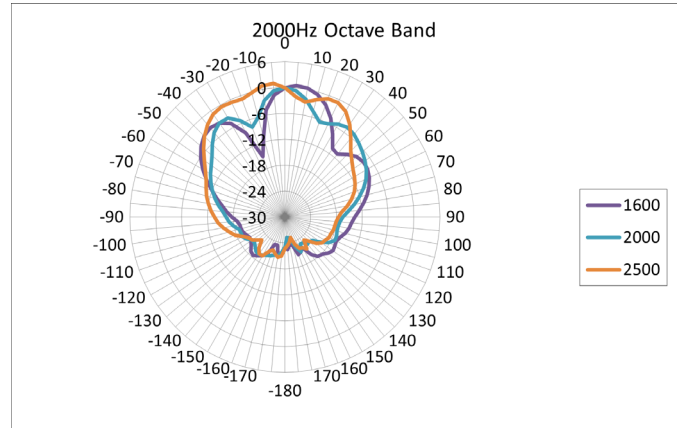
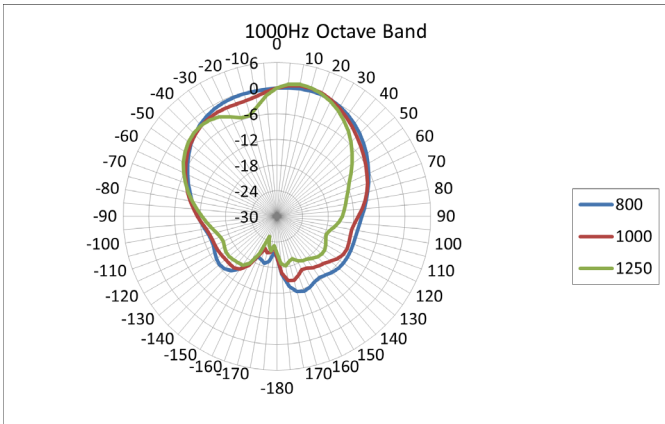
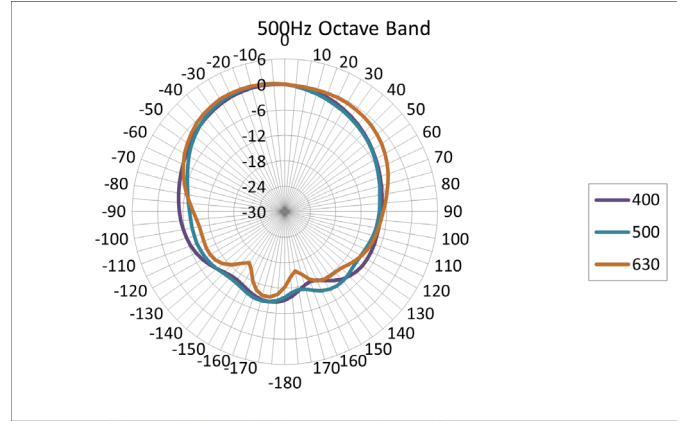
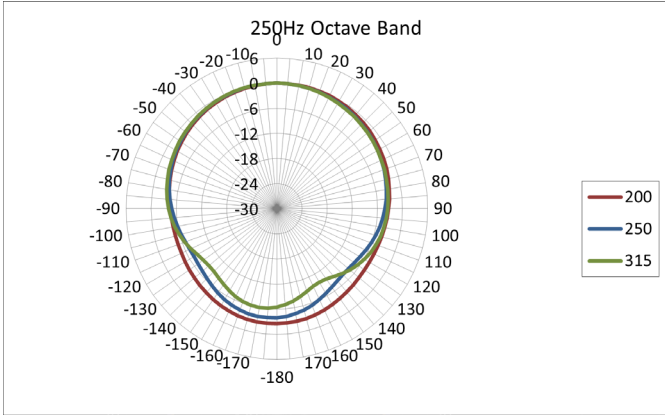


Horizontal Polar Plots



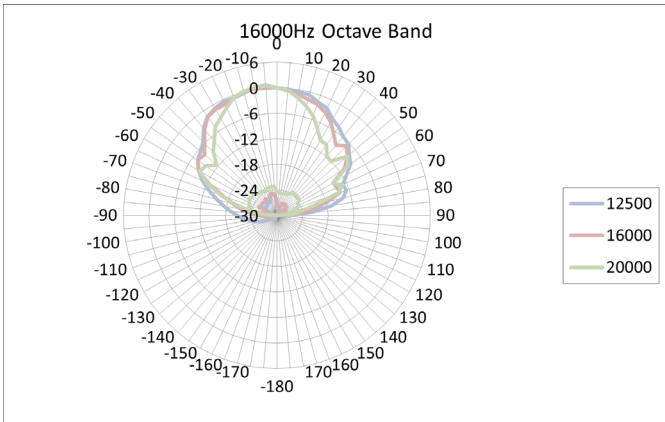
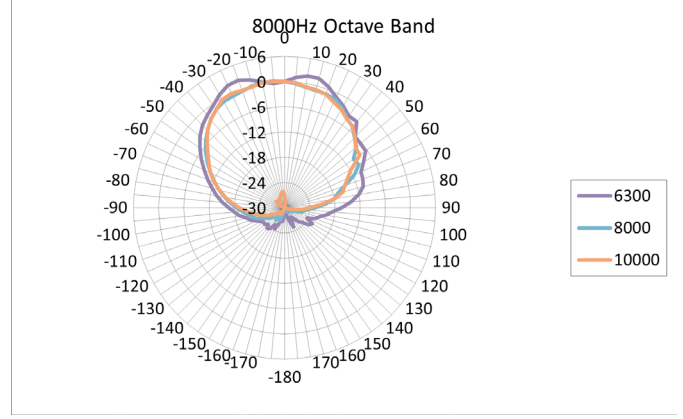
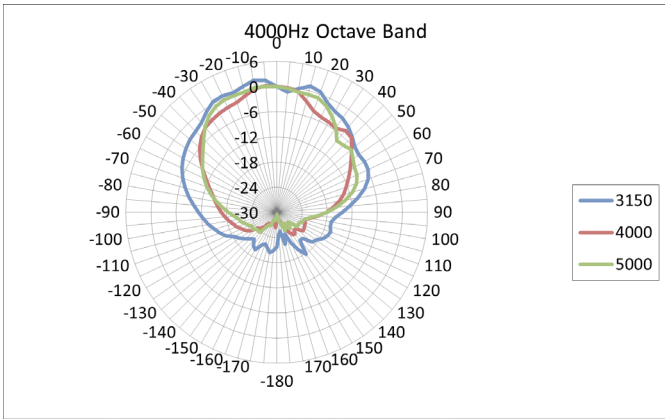
Vertical Polar Plots

1/2



Vertical Polar Plots

2/2



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Created in May, 2022