

## Overview

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Premium Sounding Compact Ceiling Speakers at a Non-Premium Price.

VC series ceiling speakers for commercial installations deliver excellent sound quality at a price point traditionally reserved for economy speakers. A total of six models, three with back cans and three without, feature elegant low-profile designs that can be install easily even in limited ceiling or wall spaces. Large mounting clamps with non-slip treads ensure secure mounting.



## Features

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- Engineered for optimum BGM and voice reproduction
- No back can low-profile design allows installation in limited ceiling spaces
- Direct support for low-impedance or high-impedance connections
- 16  $\Omega$  in low-impedance is advantageous when connecting multiple speakers in low impedance system
- Double-threaded speaker clamp screws for speedy tightening
- Paintable grilles with magnetic catches
- Black and white versions available
- 1.4 kg (3.1 lbs),  $\varnothing 225$  mm x D103 mm ( $\varnothing 8\text{-}7/8$ " x D4-1/16")
- Single unit package

## Specifications

### General Specifications

System Type		2way Coaxial type (without backcan)
Components	LF	4" Cone
	HF	0.8" Film dome
Frequency Range (-10 dB)		85 Hz - 20 kHz *1
Coverage Angle (Horizontal x Vertical)		160°conical *1
Nominal Impedance		16 Ω
Transformer Taps	70V	6 W, 3 W, 1.5 W, 0.8 W
	100V	6 W, 3 W, 1.5W
Power Rating	NOISE	15 W
	PGM	30 W
	MAX	60 W
Sensitivity (1 W, 1 m)		88 dB SPL *1
Maximum SPL (Calculated, 1 m)		106 dB SPL *2
Connectors		1 x Push terminal (WAGO 294 /2 pin)
Material, Finish, Color		VC4NB: Black (approx. Munsell N3)
		VC4NW: White (approx. Munsell N9.3)
Dimensions (W x H x D)		Ø225 mm x D103 mm (Ø8-7/8" x D4-1/16")
Net Weight		1.4 kg (3.1 lbs)
Cutout Size		Ø186 mm (Ø7-5/16")
Required Ceiling Board Thickness		2 mm - 37 mm
Packaging		Single
Certificate		CE, RoHS

\*1 Half space (2π)

\*2 Calculated based on power rating and sensitivity

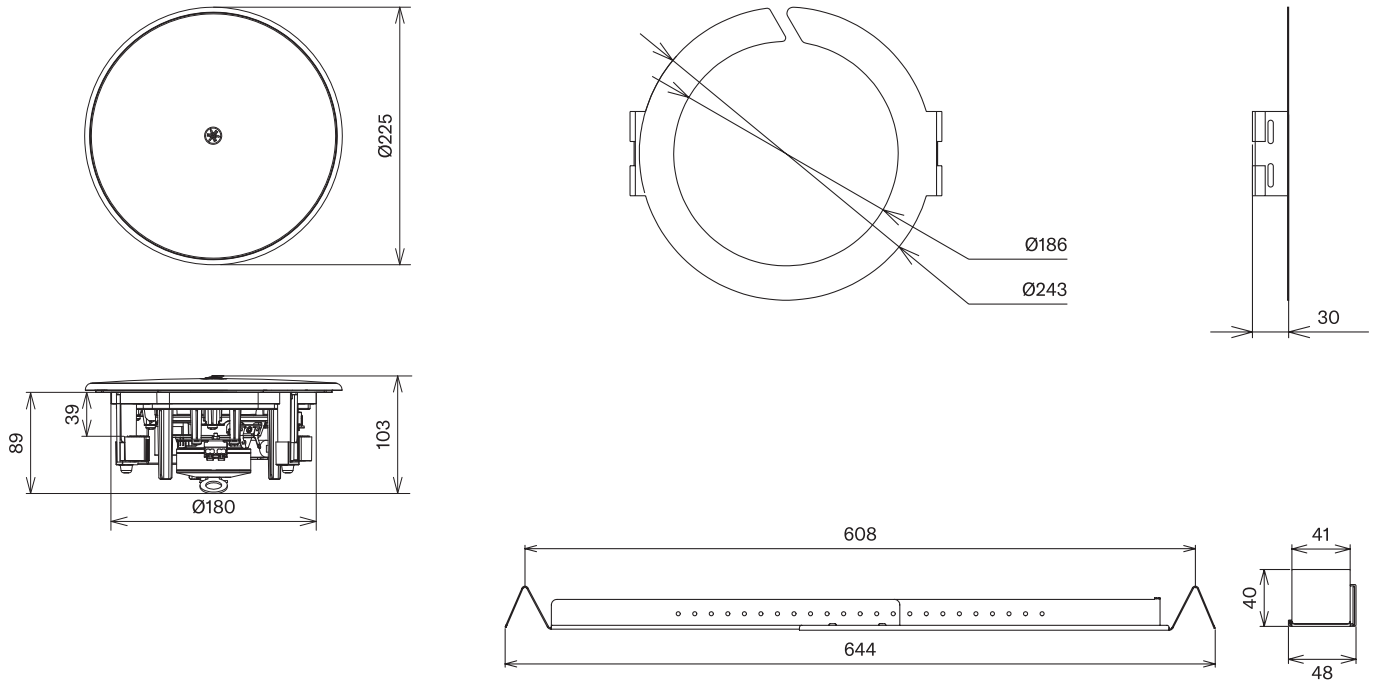
### Accessories

Included Accessories	Grille, Safety wire, Cutout template
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## Dimensions

Unit: mm

### Option: AB-C2



## Options

- C-ring + Tile Rail Kit      AB-C2

## Architectural and Engineering Specifications

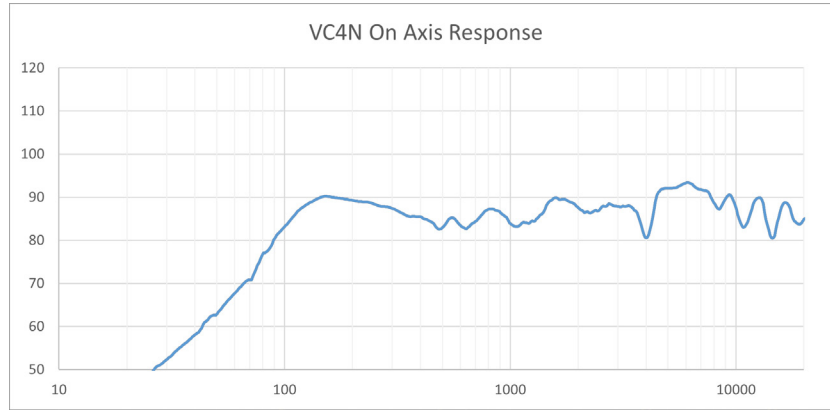
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The Yamaha VC4NB (black) and VC4NW (white) shall be low-profile flush-mount ceiling speakers designed for commercial installations. The VC4NB and VC4NW shall have a 4" cone low frequency driver and 0.8" film dome high frequency driver.

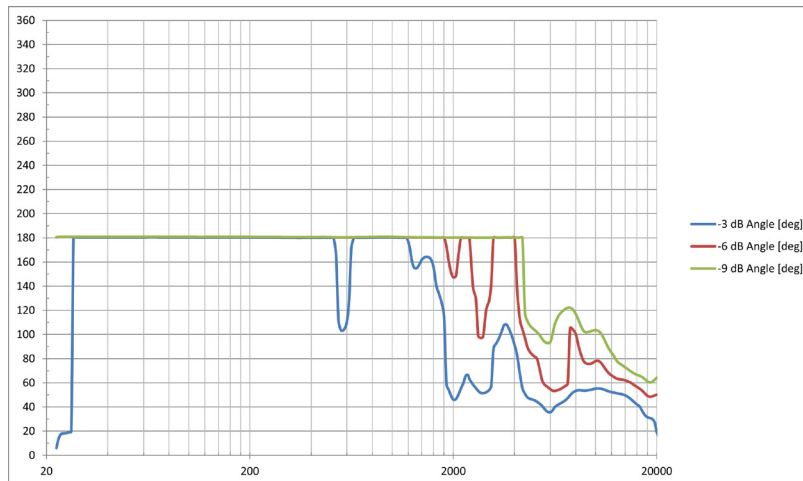
The VC4NB and VC4NW shall meet the following performance criteria: Sensitivity shall be 88 dB SPL at 1 watt/1 meter, maximum SPL shall be 106 dB at 1 meter, frequency response shall be 85 Hz to 20 kHz at 10 dB below rated sensitivity, and nominal coverage angle shall be 160° conical. Maximum power ratings shall be 15 watts noise, 30 watts program, and 60 watts peak. A tap selector shall be provided to allow operation at 16 ohms in low-impedance systems, or 70V/100V line voltage in distributed systems. 1.5, 3, and 6 watt power taps shall be provided for 100 volt distributed lines. 0.8, 1.5, 3, and 6 watt power taps shall be provided for 70 volt distributed lines. Overload protection shall be provided by full-range power limiting. Push terminals shall be provided for input connection.

The VC4NB and VC4NW shall have a powder-coated punched metal grille and ABS trim ring. These models shall not have back cans, but shall be provided with a dust-proof bag made of artificial fiber to protect the back of the speaker. The VC4NB grille and trim ring shall be black, and the VC4NW grille and trim ring shall be white. The VC4NB and VC4NW shall be supplied with a safety wire, cutout template and owner's manual. An optional reinforcing bracket kit including tile rails, a C-ring, and screws shall be sold separately. The required ceiling cutout size shall be 186 (ø) mm. Speaker dimensions including grille shall be 225 (ø) x 103 (D) mm. Weight shall be 1.4 kg.

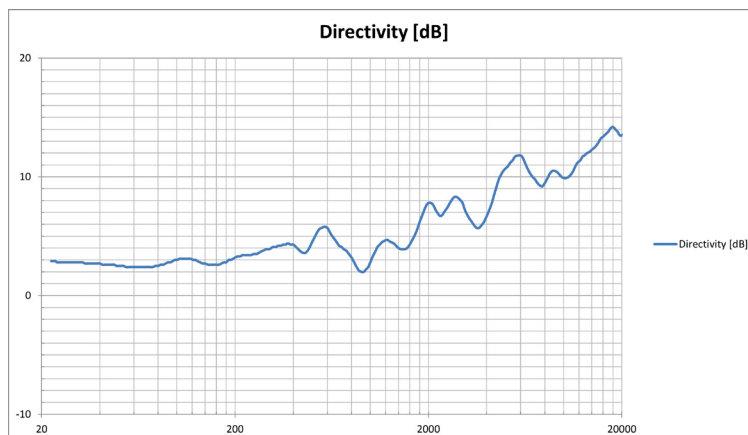
## Sensitivity



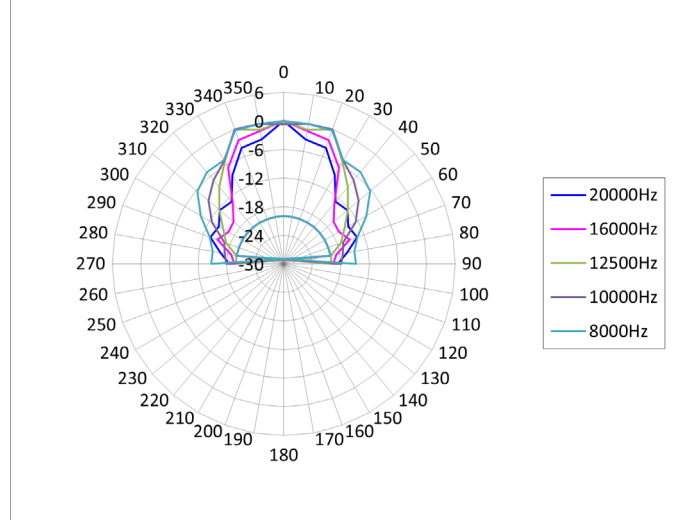
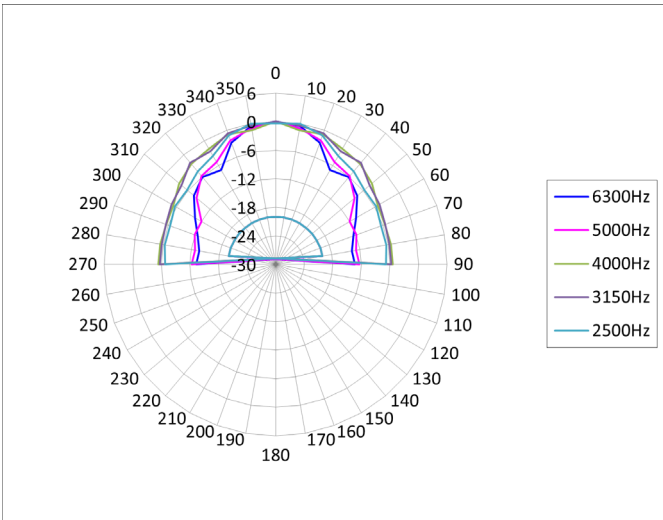
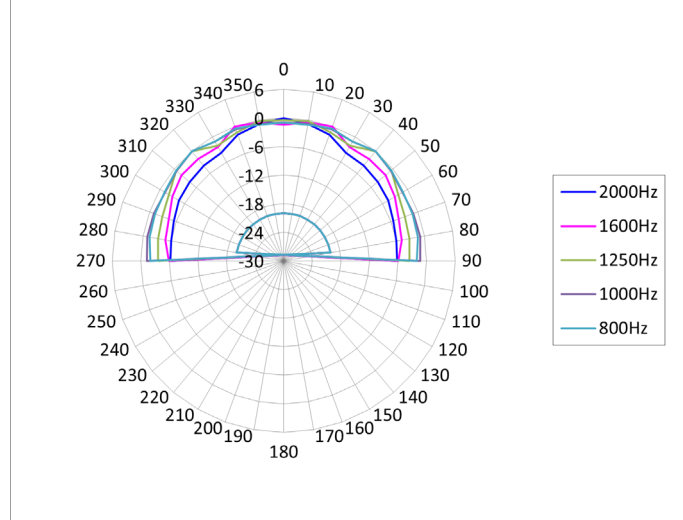
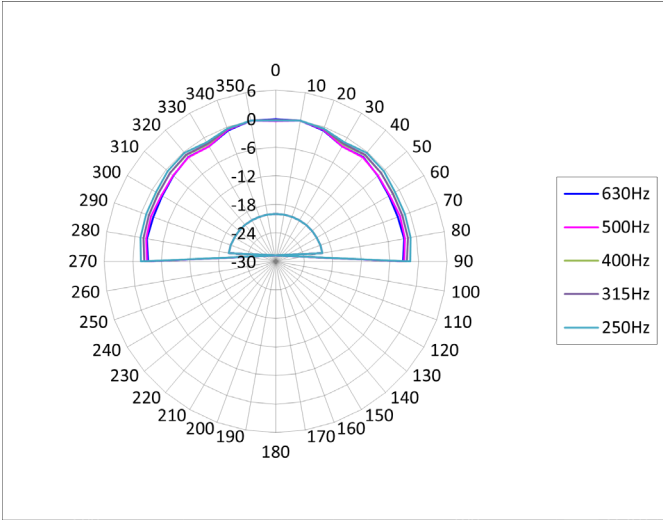
## Beam Width



## Directivity Index



## Polar Plots



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