

VIRO-C1601

Compact 16 x 1.3" performance line array speaker

Highlights:

- 320 Watt program power
- 114 dB of Max SPL (continuous)
- 160° horizontal & up to 15° vertical wide opening angle
- Integrated advanced protection circuit
- SnapConnect™ enabling a fast and reliable connection
- Flexible mounting for aesthetic versatility
- Impedance switch inside

Product information:

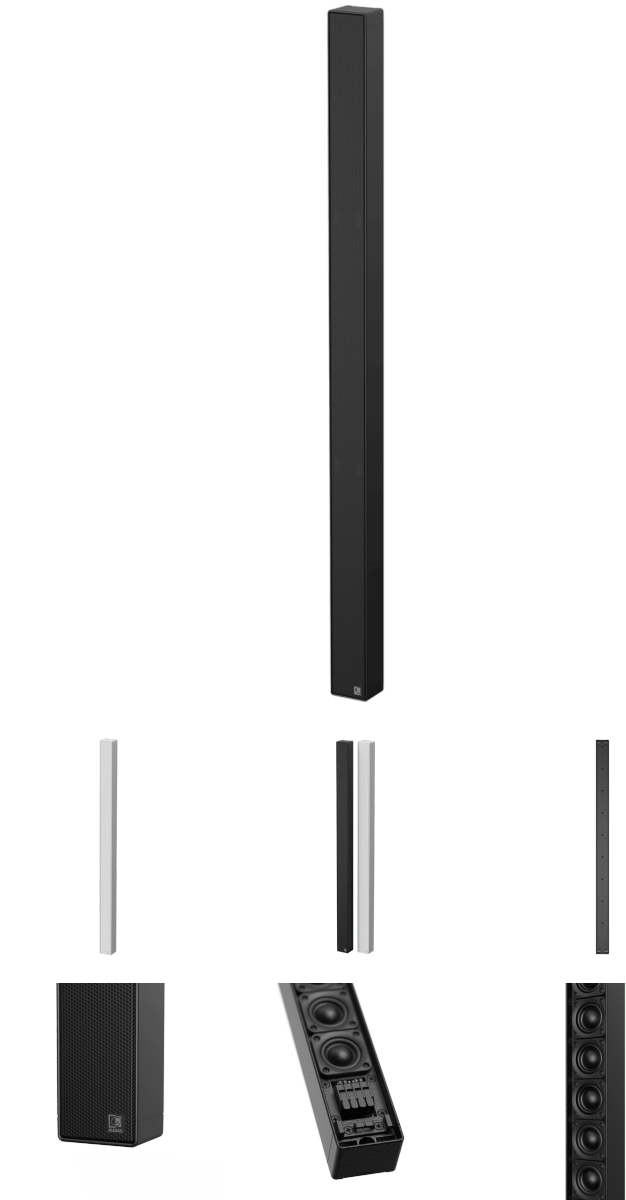
The VIRO-C series delivers compact line array performance in an ultra-slim architectural form. Designed for precise speech intelligibility and consistent high SPL coverage, VIRO-C is ideal for high-end corporate spaces, retail environments, residential interiors, and yachting applications where sound quality and aesthetics must align seamlessly.

Featuring custom engineered 1.3 inch drivers, precise pattern control, and a wide 160 degree horizontal dispersion, the VIRO-C series ensures predictable in room performance with excellent clarity throughout the space. The aluminum housing supports ThermalDrive protection, maintaining stable operation under continuous load, while the integrated protection circuit safeguards long term reliability.

With a tool free click on grill, Snapconnect wiring, internal impedance switching, and versatile mounting options including a flush mount solution in development, the VIRO-C series combines refined installation with powerful, controlled sound in a discreet architectural design.

Applications:

- Corporate
- Education
- Residential
- Retail



Impedance:

Ω 4 Ohm Ω 16 Ohm

Usage:



Indoor

System specifications:

Speaker type		Column speaker
Peak power handling		640 W
Program power handling		320 W
Continuous power (AES)		160 W
Impedance		4 / 16 Ω
Sensitivity (1W/1m)		92 dB
Sound Pressure (Max. W/1m)		114 dB
Sound Pressure (Peak dBZ, crest factor 4 = +12dB)		132 dBZ
Frequency	Range (-10 dB)	235 Hz - 20 kHz
Coverage	Horizontal	160°
	Vertical	15°
Drivers		16 x 1.3"
Temperature	Operating	-20 - 50 °C

Product Features:

Finish	Front finish	Powder coated fine perforated steel
Construction		Alu extrusion
Dimensions		42 x 680 x 34.5 mm (W x H x D)
Weight		1.5 kg
Colours		Black (VIRO-C1601/B)
		White (VIRO-C1601/W)
Accessories	Included	Speaker grill removal tool

Variants:

- VIRO-C1601/B - Black version
- VIRO-C1601/W - White version

Architects' and Engineers' Specifications:

The loudspeaker shall be a compact column line array incorporating sixteen custom-engineered 1.3" drivers, designed to provide precise speech intelligibility, detailed sound reproduction, and consistent high SPL coverage. The drivers shall be arranged in a line array configuration to provide controlled vertical dispersion and predictable sound distribution throughout the listening area. The drivers shall be housed in an aluminium extrusion enclosure incorporating ThermalDrive™ technology for effective heat dissipation and stable performance during continuous operation.

The enclosure shall feature an architecturally discreet and ultra-slim design suitable for professional indoor installations. The front shall be finished with a powder-coated fine perforated steel grille, providing a clean and durable appearance while allowing optimal acoustic transmission. The grille shall incorporate a tool-free click-on mounting system, providing a seamless architectural appearance without visible fasteners.

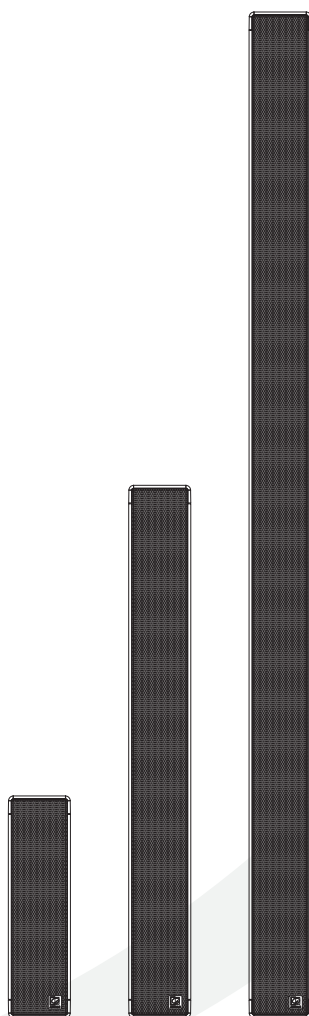
The system shall have a continuous power (AES) handling of 160 Watts, program power handling of 320 Watts, and peak power handling of 640 Watts, with selectable nominal impedance of 4 Ohms or 16 Ohms. The frequency response (-10 dB) shall range from 235 Hz to 20 kHz. The sensitivity shall be 92 dB, measured with an input signal of 1 Watt at 1 meter, while the maximum continuous sound pressure level (SPL) shall reach 114 dB. Peak sound pressure level shall reach 132 dBZ with a crest factor of 4 (+12 dB).

The loudspeaker shall provide a horizontal coverage of 160° and a vertical coverage of 15°, ensuring wide horizontal coverage with tightly controlled vertical dispersion for consistent sound distribution, reduced reflections, and improved speech intelligibility. An integrated advanced protection circuit shall safeguard the loudspeaker against excessive operating conditions. The system shall incorporate an internal impedance switch for configuration flexibility and SnapConnect™ connections for fast and reliable installation. The enclosure shall provide flexible mounting options to accommodate different architectural installation requirements and orientations. The loudspeaker shall measure 42 mm in width, 680 mm in height, and 34.5 mm in depth, while the weight shall not exceed 1.5 kg. The enclosure shall be available in both black and white finishes to blend seamlessly into a variety of architectural environments.



User manual

VIRO-Cxx1



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Introduction **03**

 Compact performance line array speaker 03

Precautions **04**

Chapter 1 **06**

 Overview and connecting VIRO-Cxx1 06

Chapter 2 **07**

 Installing VIRO-Cxx1 07

Technical specifications **10**

ADDITIONAL INFORMATION

This manual is put together with much care, and is as complete as could be on the publication date. However, updates on the specifications, functionality or software may have occurred since publication. To obtain the latest version of both manual and software, please visit the Audac website @ audac.eu.



Compact performance line array speaker

The VIRO-C series delivers compact line array performance in an ultra-slim architectural form. Designed for precise speech intelligibility and consistent high SPL coverage, VIRO -C is ideal for high-end corporate spaces, retail environments, residential interiors, and yachting applications where sound quality and aesthetics must align seamlessly.

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Precautions



READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

THIS UNIT HAS VERSIONS DEVELOPED FOR INDOOR USE.

NEVER EXPOSE THIS EQUIPMENT DIRECTLY TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE.

NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLES, SHOULD BE PLACED ON THE APPARATUS

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

CAREFULLY CHECK THE UNIT'S CONDITION AFTER UNPACKING. IF THERE IS ANY DAMAGE TO THE CARTON BOX OR THE UNIT ITSELF, INFORM YOUR VENDOR IMMEDIATELY.

USE CABLES OF THE RIGHT GAUGE TO CONNECT THE LOUDSPEAKER

USE CABLES WITH CLEAR COLOUR CODING INDICATING THE POLARITY AND MAINTAIN THE SAME POLARITY THROUGHOUT THE WHOLE SYSTEM.

ONLY USE THE CORRECT AMPLIFIER OUTPUT VOLTAGE AND IMPEDANCE. EXCEEDING THESE LIMITS COULD CAUSE FIRE OR OTHER FAILURES.

AVOID EXPLOSIONS: DO NOT USE THE SPEAKER AROUND GASOLINE, THINNER OR OTHER COMBUSTIBLES

AVOID ELECTRIC SHOCKS: SWITCH OFF THE AMPLIFIER WHEN CONNECTING THE LOUDSPEAKER

DO NOT USE THE LOUDSPEAKER FOR AN EXTENDED PERIOD OF TIME AT DISTORTED SOUND. THIS COULD CAUSE PERMANENT DAMAGE.



CAUTION - SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC2) & 2014/35/EU (LVD).

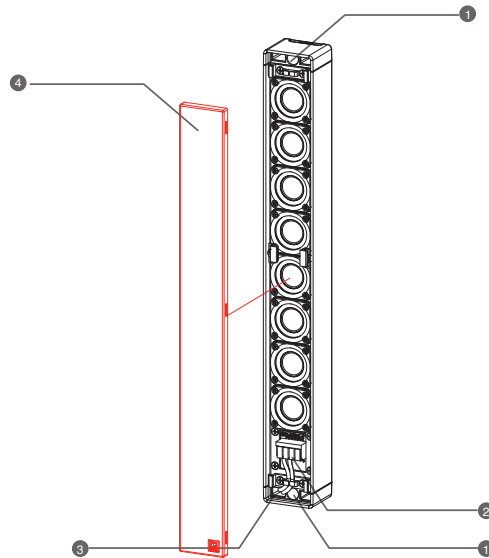


WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its life cycle. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product at your local collection point or recycling centre for electrical and electronic waste. This will make sure that it will be recycled in an environmentally friendly manner, and will help to protect the environment in which we all live.

Overview and connecting VIRO-Cxx1



1) Mounting holes

Mounting holes are provided on both the top and bottom of the VIRO-Cxx1 series enclosure, allowing secure installation on flat surfaces such as walls. Ensure that appropriate mounting hardware is selected based on the surface material and that the unit is firmly fixed to prevent movement or vibration during operation.

2) Snapconnect™ with link-through

The amplifier wiring should be connected to the Snapconnect™ terminal located at the bottom part, under the driver array, of the VIRO-Cxx1 series loudspeaker. This connection system ensures a secure and reliable connection.

The Snapconnect™ terminal also features a link-through connection, allowing multiple VIRO-Cxx1 loudspeakers to be connected in parallel. This simplifies wiring in larger setups by distributing the input signal efficiently across multiple loudspeakers, ensuring consistent coverage.

The VIRO-C801 and VIRO-C1601 models allow flexible impedance configuration, offering the ability to switch between two different nominal impedances. Details can be found in Chapter 2, under “Changing impedance”.

3) Cable entry options

The VIRO-Cxx1 series offers multiple cable entry options to accommodate different installation requirements. Cables can be routed internally through the dedicated cable opening inside the enclosure, allowing for a clean and protected installation. Alternatively, the bottom cover can be removed to allow cable entry from below.

4) Grill

The VIRO-Cxx1 series features a clean and durable click-on grill system, designed for long-lasting performance and a seamless visual finish. The grill can be installed without the use of tools by simply pressing it into place. Once attached, it remains securely fixed, ensuring reliable positioning over time while maintaining the product's aesthetic appearance.

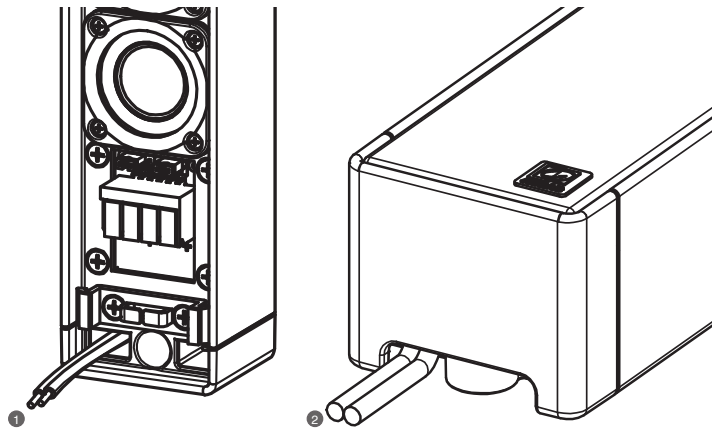
Installing VIRO-Cxx1

1) Installation of VIRO-C1xx on a flat surface

The VIRO-C series features mounting holes on the top and bottom of the enclosure, allowing direct installation on a flat surface.

Before fixing the loudspeaker, ensure that the cables are routed through the selected cable entry points.

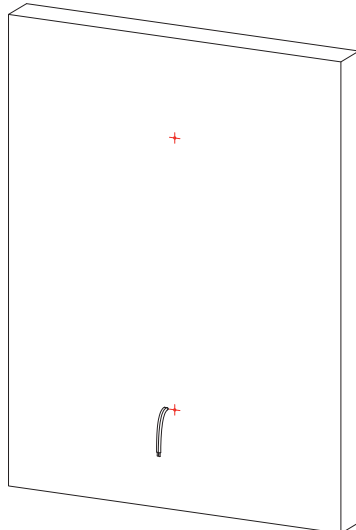
Cable entry options are:



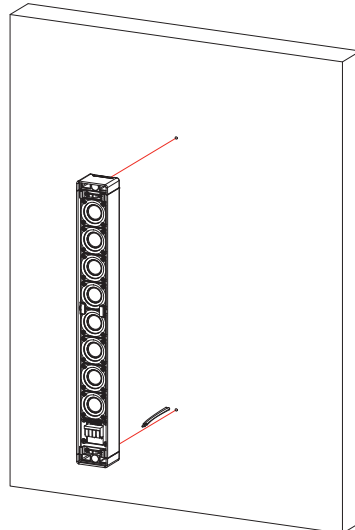
Once the cabling is prepared, position the loudspeaker at the desired location and secure it using appropriate fasteners through the provided mounting holes. The maximum screw diameter should not exceed 8 mm.

Always select fasteners that are suitable for the mounting surface, such as brick, concrete, or wood, and make sure the loudspeaker is firmly fixed before proceeding with the installation.

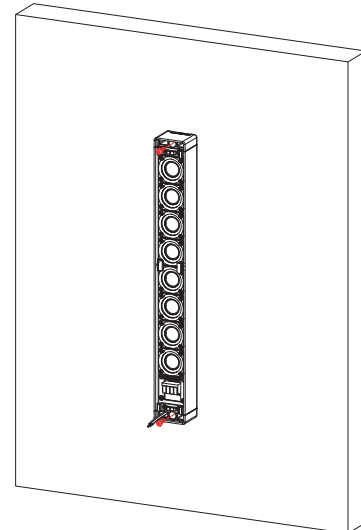
Step-1



Step-2



Step-3

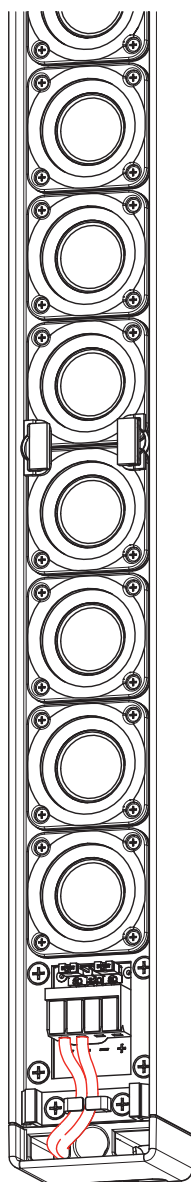


2) Changing impedance

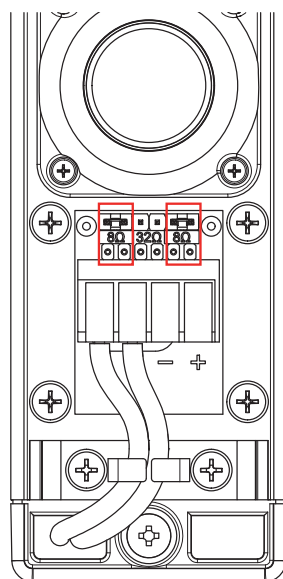
After connecting the cables to the Snapconnect™ terminal located at the bottom of the VIRO-Cxxl series loudspeaker, the nominal impedance can be set using the jumpers located on top of the Snapconnect™ terminal.

The available impedance settings depend on the model: VIRO-C801 is 8 Ohm (default) or 32 Ohm and VIRO-C1601 is 4 Ohm (default) or 16 Ohm. Refer to the drawings below for the jumper positions, highlighted in red for each configuration.

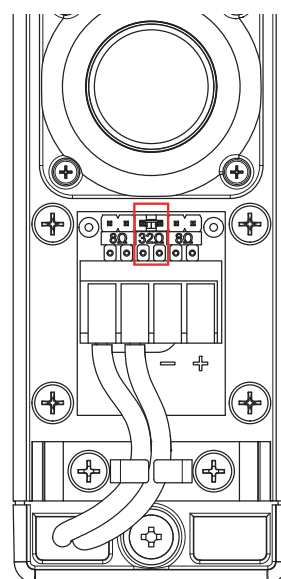
Step-4



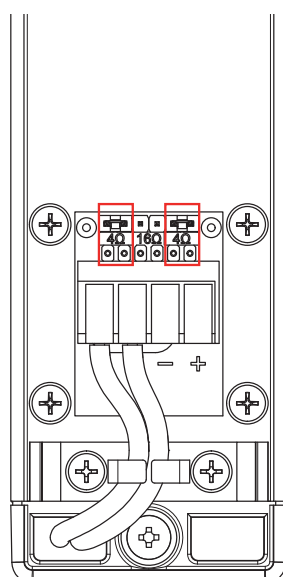
VIRO-C801 8Ohm Configuration



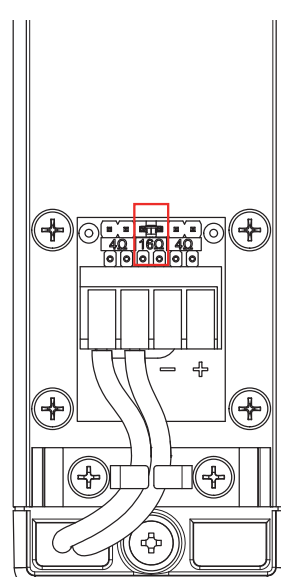
VIRO-C801 32Ohm Configuration



VIRO-C1601 4Ohm Configuration



VIRO-C1601 16Ohm Configuration



3) Connection

The VIRO-Cxxl series is equipped with Snapconnect™ terminal connector with link-through for easy and secure wiring. This allows for straightforward daisy-chaining of multiple VIRO-Cxxl, ensuring a seamless setup.

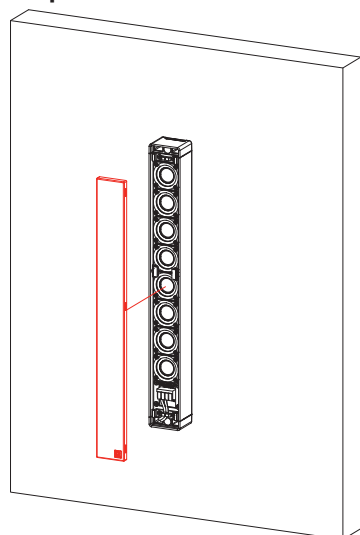
The input signal should be processed using an external crossover, a DSP-controlled amplifier. WaveDynamics preset are available in the latest version of AUDAC Touch to achieve optimal performance.

Mind the polarity markings when wiring the loudspeaker cables.

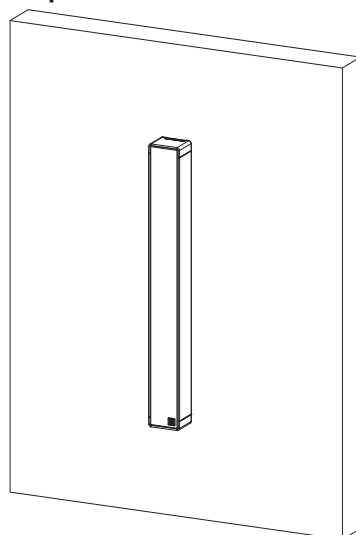
4) Closing the grill

After setting the nominal impedance, the front grill can be installed. Align the grill with the enclosure and press it firmly into place until it clicks securely. The tool-free click-on system ensures a clean finish and keeps the grill securely fixed over time.

Step-5



Step-6



Chapter 3



Determining Listening Area and Mounting Height

1) Listening distance and conditions

The recommended operational listening distances for the VIRO-C Series are 3 m for the VIRO-C201, 10 m for the VIRO-C801, and 20 m for the VIRO-C1601. These values were determined from practical listening tests conducted at a listener height of 1.5 m, using a 150 Hz LR24 high-pass filter and program material containing vocals and string instruments.

The stated distances are conservative recommendations based on the perceived balance between direct and reflected sound. Actual performance may vary depending on installation conditions. Factors such as increased mounting height and acoustically absorptive environments can improve direct sound coverage and extend the effective listening range. Under optimized conditions, the VIRO-C Series can provide reliable sound coverage beyond the recommended distances.

Technical specifications



	VIRO-C201	VIRO-C801	VIRO-C1601
Speaker type	Column speaker		
Configuration	Satellite		
Continuous power (AES)	20W	80W	160W
Program power handling	40W	160W	320W
Peak power handling	80W	320W	640W
Nominal impedance	8 Ohm	8 / 32 Ohm	4 / 16 Ohm
Max SPL (Continuous)	96 dB	108 dB	114 dB
Max SPL (Peak dBZ, crest factor 4 = +12dB)	117 dBZ	126 dBZ	132 dBZ
Sensitivity 1W/1m	83 dB	89 dB	92 dB
Frequency response (-3dB)	300 Hz - 20 kHz		
Frequency range (-10dB)	235 Hz - 20 kHz		
Dispersion (H x V)	160° x 120°	160° x 20°	160° x 15°
Connectors	SnapConnect™		
Drivers	1.3" x 2	1.3" x 8	1.3" x 16
Cone material	Treated paper		
Dimensions (w x h x d)	42 x 150 x 34.5 mm	42 x 360 x 34.5 mm	42 x 680 x 34.5 mm
Weight	0.29 Kg	0.80 Kg	1.5 Kg
Operating temperature	-20 °C ~ 50 °C		
Construction	Alu extrusion		
Front finish	Powder coated fine perforated steel		
Colours	Black (VIRO-C201/B)	Black (VIRO-C801/B)	Black (VIRO-C1601/B)
	White (VIRO-C201/W)	White (VIRO-C801/W)	White (VIRO-C1601/W)
Optional accessories	MBK510/B MBK510/W		

Notes





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