CIMI line 8/16

USER MANUAL

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SAFETY INSTRUCTIONS

1. **Read this manual**
2. **Heed all SAFETY INSTRUCTIONS as well as DANGER and OBLIGATION warnings**
3. **Never incorporate equipment or accessories not approved by APIA PRO AUDIO**
4. **Read all the related PRODUCT INFORMATION documents before exploiting the system**
   The product information document is included in the shipping carton of the related system component.
5. **Read the RIGGING MANUAL before installing the system**
   Use the rigging accessories described in the rigging manual and follow the associated procedures
6. **Beware of sound levels**
   Do not stay within close proximity of loudspeakers in operation and consider wearing earplugs.
   Loudspeaker systems are capable of producing very high sound pressure levels (SPL) which can instantaneously lead to permanent hearing damage to performers, production crew and audience members. Hearing damage can also occur with prolonged exposure to sound: 8 h at 90 dB(A), 30 min at 110 dB(A), less than 4 min at 130 dB(A).

SYMBOLS

The following symbols are used in this document:

DANGER
This symbol indicates a potential risk of harm to an individual or damage to the product.
It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.

ELECTRICAL HAZARD
This symbol indicates a potential risk of electrical injury.
It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.

OBLIGATION
This symbol notifies the user about instructions that must be strictly followed to ensure proper installation or operation of the product.

EQUIPMENT
This symbol indicates the equipment, tools, and spare parts required to perform a procedure

INFORMATION
This symbol notifies the user about complementary information or optional instructions

☒ ACTION
This symbol indicates an action to perform.

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CONTENTS

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1. INTRODUCTION

The Apia Pro Audio Cimiline Series are weatherproof passive speaker systems, comprised of 2" neodymium magnet transducers housed in an elegant aluminum casing painted with the robust electrostatic powder painting system which are available in custom RAL colors.
Cimiline 8 features 8 drivers in a 0.5 m (19.7"), while the Cimiline 16 features 16 drivers in a 1 m (39.4") chassis.
To accommodate a range of applications, the vertical dispersion pattern can be switched for either flood **or spot coverage.**
The Apia Cimiline Series closely spaced cone drivers provide phase coherence, low distortion and focused listening both up close and at a distance.
Optional rigging and linking accessories allow multiple speakers to be interconnected, creating a wide array of vertical and horizontal configurations for temporary or permanent installation.
For integration with other speakers or amplifiers, the Cimiline 8 and Cimiline 16 offer selectable impedance (16Ω /64 Ω for the Cimiline 8 and 8Ω /32 Ω for the Cimiline 16).
Integrating powered C-SUB and C-INFRA subwoofers ensures excellent coverage of the entire musical frequency range. QDX-13 amplifier series also features custom presets, optimized for use with the Cimiline series.

Apia products and components are designed with high-tech by our qualified engineers.Apia products have **custom-made quality control systems for dear customers.**

2. KEY FEATURES

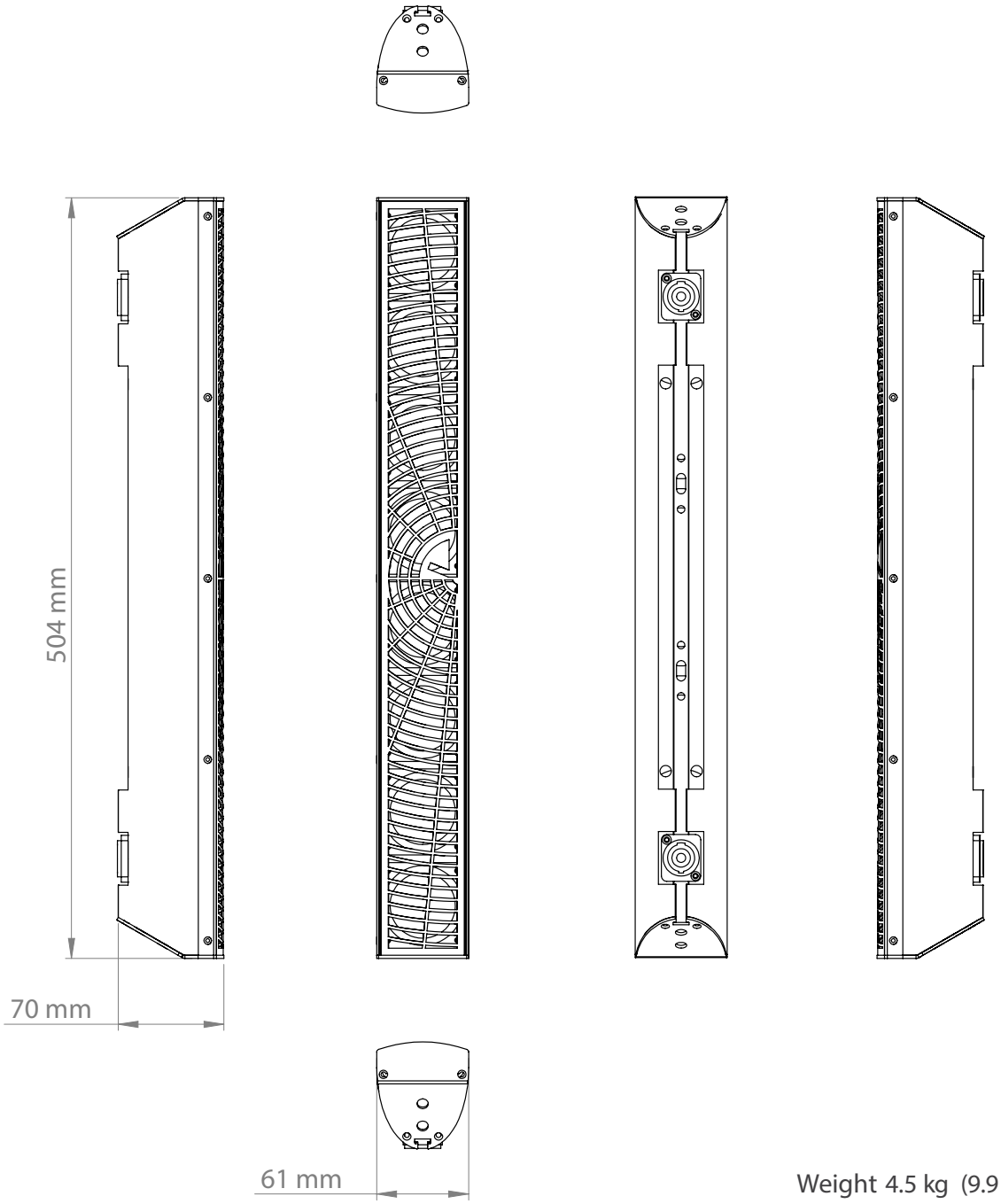
- Low profile enclosure and custom colors blend into any environment.
- **Vertical, Horizontal and 3D line-array applications**
- **Multiple 2" long-excursion full-range cone drivers**
- **Wide horizontal coverage**
- **Variable vertical spread from 7° to 30° (Spot/Flood)**
- **Electronically protected**
- **Selectable impedance (Cimiline 8 & 16 /64Ω ,Cimiline 16 8/32Ω)**

3. APPLICATIONS

- **Airports, convention centers**
- **Theatre, club, house of worship**
- **Front fill and under-balcony fill**
- **Shopping malls and retail spaces**
- **Portable and installed AV systems**
- **Stage and AV studio monitoring**

4. PHYSICAL

4.1 CIMILINE 8 LAYOUT



Weight 4.5 kg (9.9 lbs)

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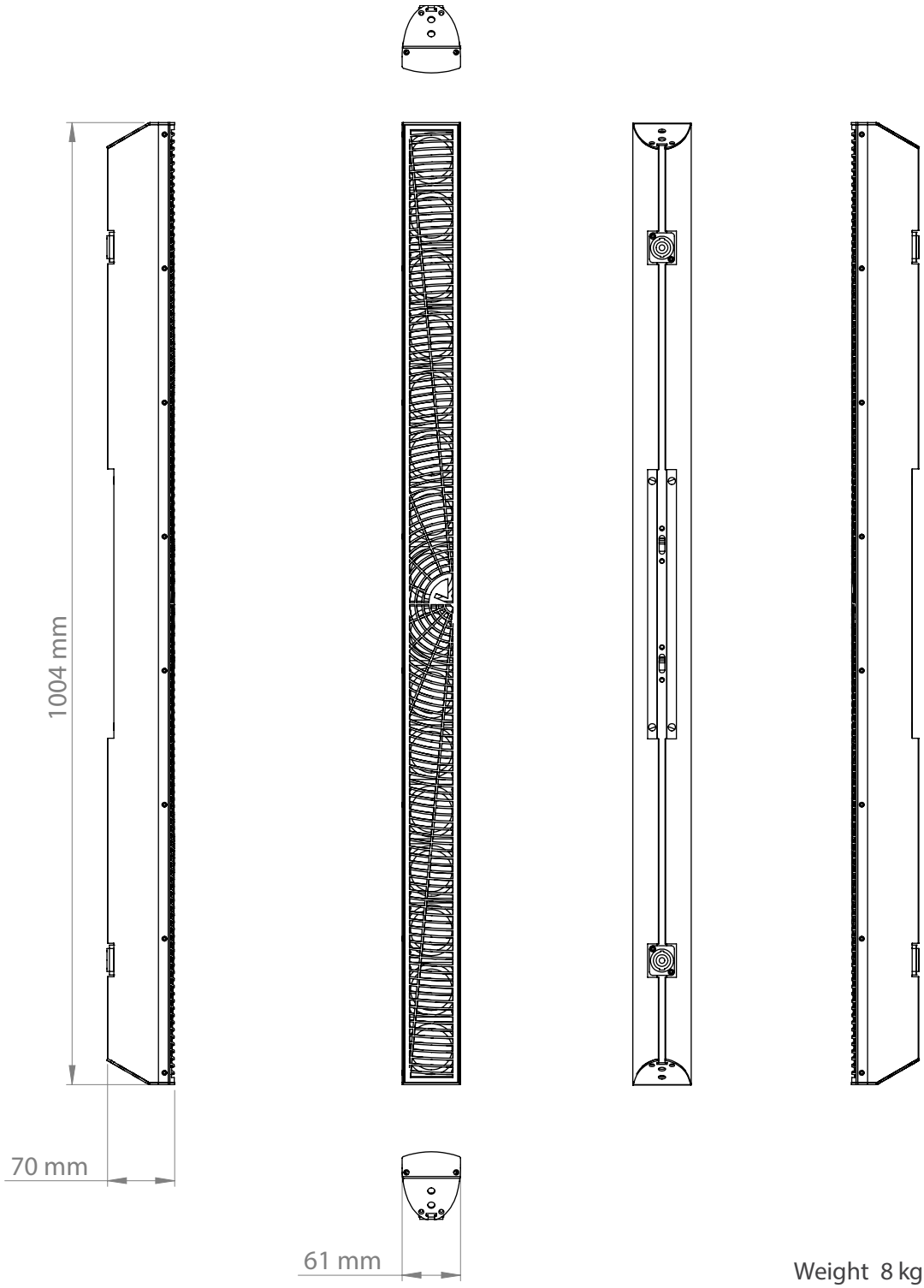
USER MANUAL

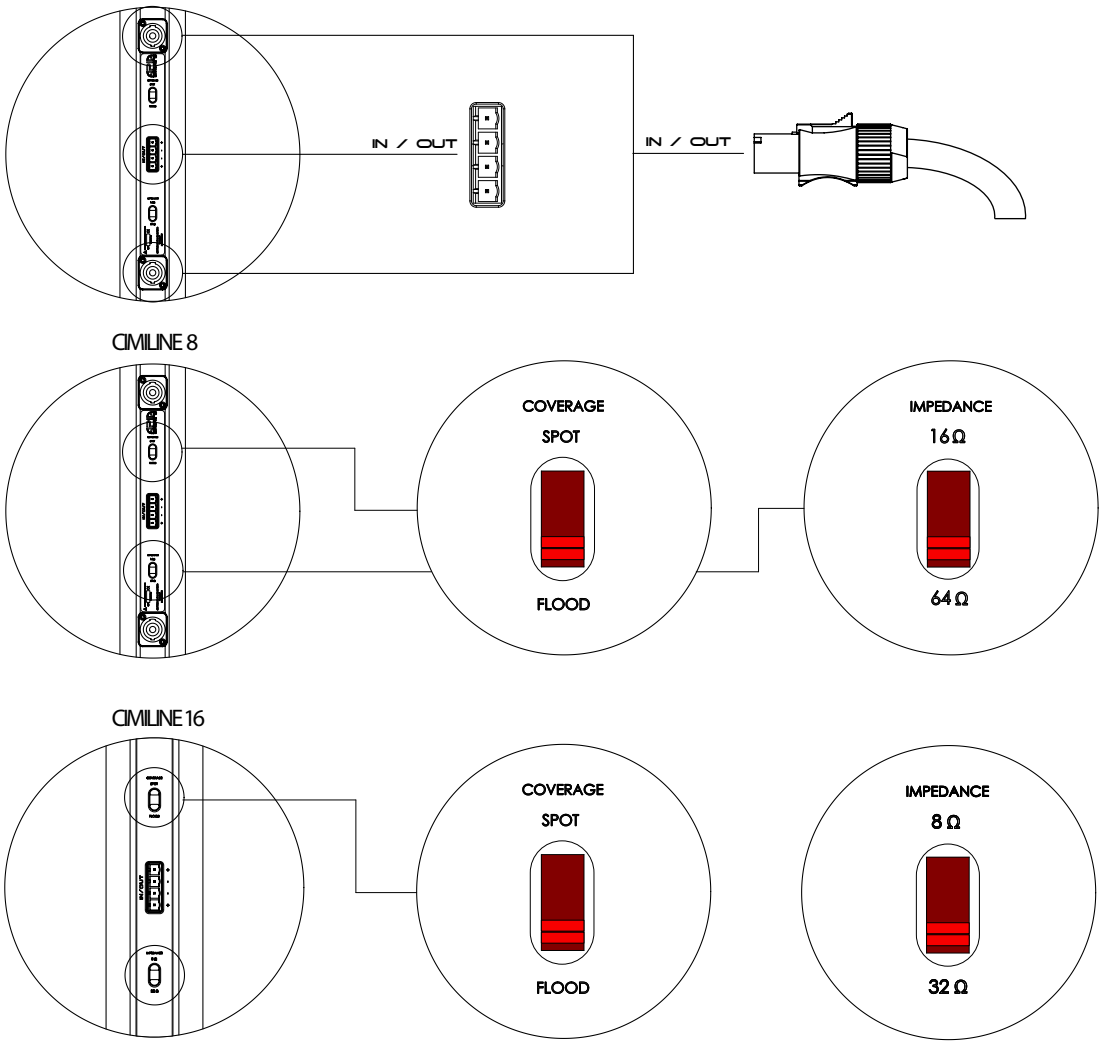
4.2 CIMILINE 16 LAYOUT



Weight 8 kg (17.6 lbs)

5. WIRING OPTION

Cimiline 8 and Ciwiline 16 internal wiring is designed to pick up audio power signal from pins 1+ / 1- of a Speakon NL4 connector. Pins 1+ and 1-, such as pins 2+ and 2-, are directly wired from one socket to the other, so the two sockets are equivalent and can be used to connect the speaker to the amplifier or to connect the speaker to another one driven in parallel by the same amplifier channel.



5.1 IMPEDANCE SWITCH

Cimiline 8 and Cimiline 16 features a switch which allows users to select the impedance of the speaker (Cimiline 8: 16/64 Ω ,Cimiline 16: 8/32 Ω).
The value to be selected depends mainly on the amplifier you use to drive the unit. Impedance must be set to high (64 Ω for Cimiline 8 and 32Ω for Cimiline 16) when speakers are driven by C-SUB and C-INFRA active subwoofers or by the QDX-13 amplifier. Low impedance may be used when speakers are driven.

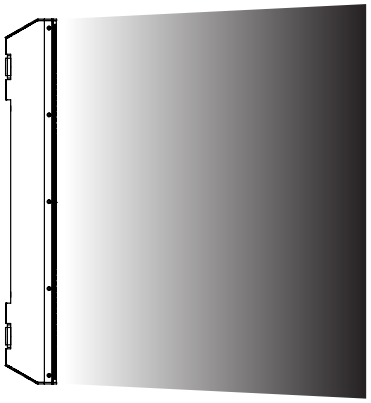
5.2 COVERAGE SWITCH

Cimiline 8 and Cimiline 16 features a switch which allows users to select the vertical coverage of the speaker. Flood coverage sets a wide vertical diffusion. Flood coverage is suggested for single speakers in diffused short throw applications to obtain maximum diffusion with a minimum footprint.
Spot coverage sets a narrower vertical diffusion angle and is recommended for long throw or monitoring application.

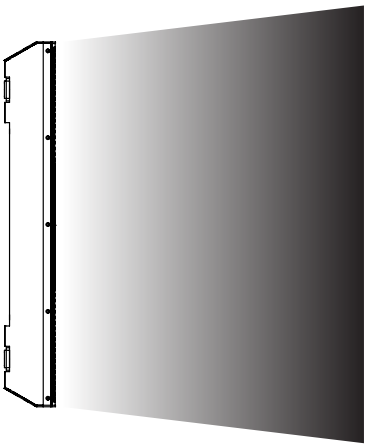
When more units are combined in a line array configuration, make sure to set the coverage to Spot.

CIMILINE 8

SPOT Coverage

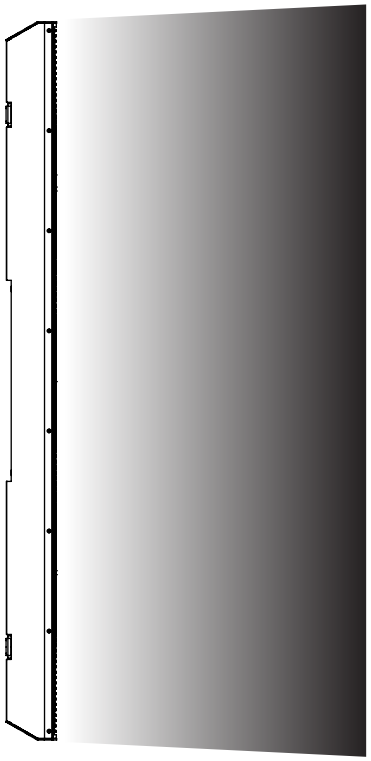


FLOOD Coverage

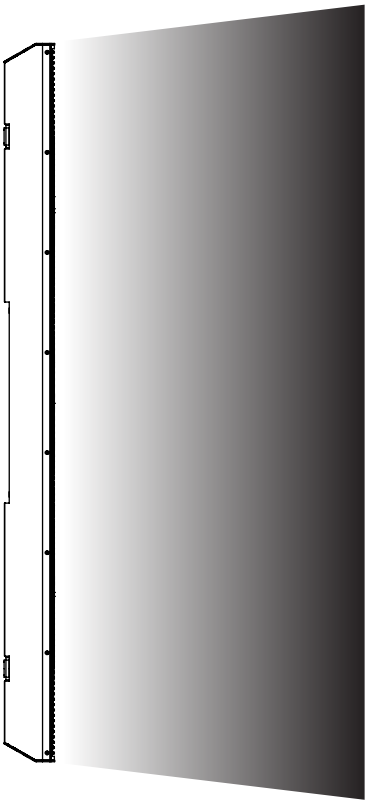


CIMILINE 16

SPOT Coverage



FLOOD Coverage

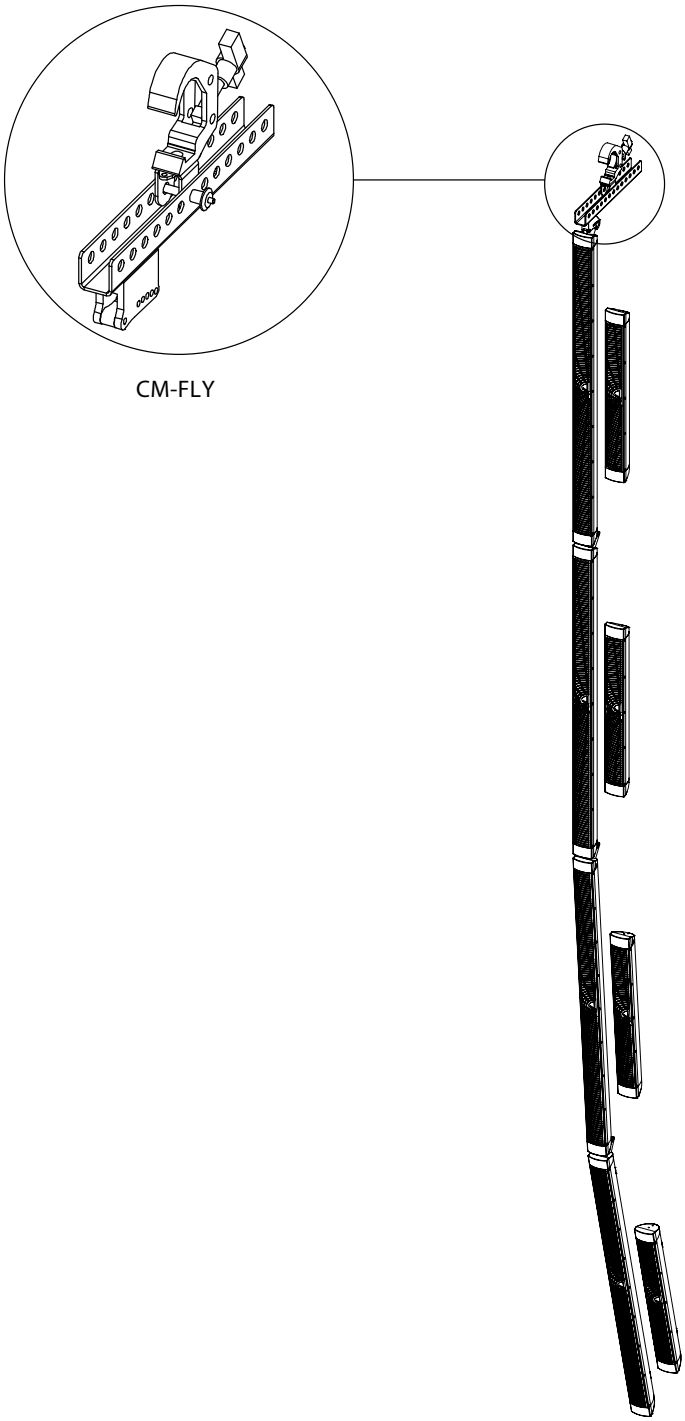


6.CONFIGURATIONS AND ACCESSORIES

Apia Pro Audio offers a variety of dedicated accessories to mount and interconnect the speakers for a wide range of applications.
In this section we introduce you to the main accessories available for this product.

6.1 SUSPENDING FROM THE FLY-BAR

Cimiline 8 and Cimiline 16 units can be suspended using the CM-FLY bar accessory and the CM-JOINT hardware accessory used to connect together two units or to connect a unit to the fly bar. Mixed configuration with both Cimiline 8 and Cimiline 16 in the same cluster are also possible.

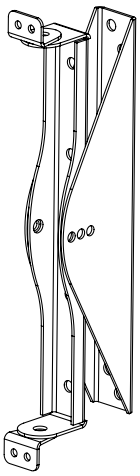


CM-FLY

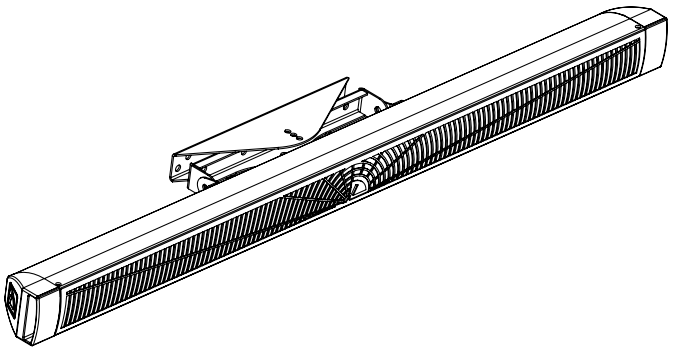
6.2 HANGING ON THE WALL

The CM WALL H-V accessories are used to mount a speaker on a wall.

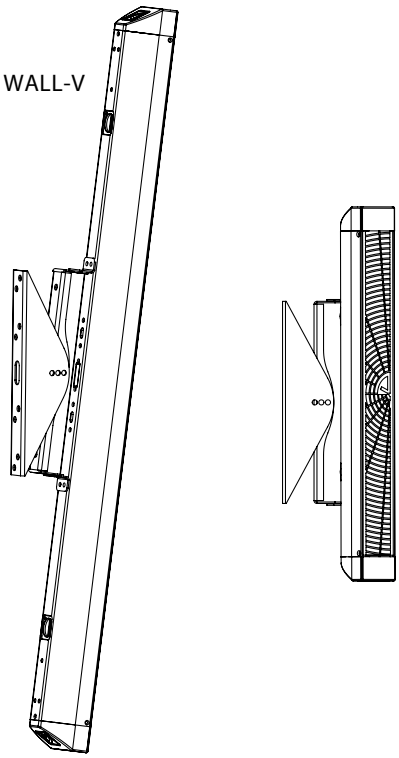
CM WALL-H-V



WALL-H



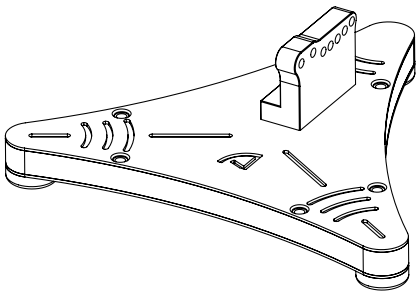
WALL-V

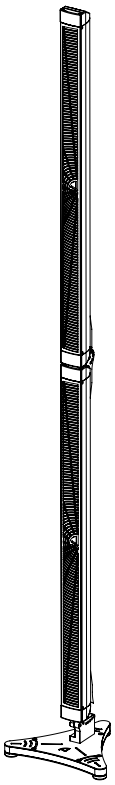


6.3 STANDING ON THE BASE

The CM-BASE accessory assists in standing up to 2 meters of Cimiline 8/Cimiline 16. For proper installation and operation, connect the units to the base with CM-FOOT and CM-JOINT accessories. Where possible, screw the feet of the CM-BASE to the ground.

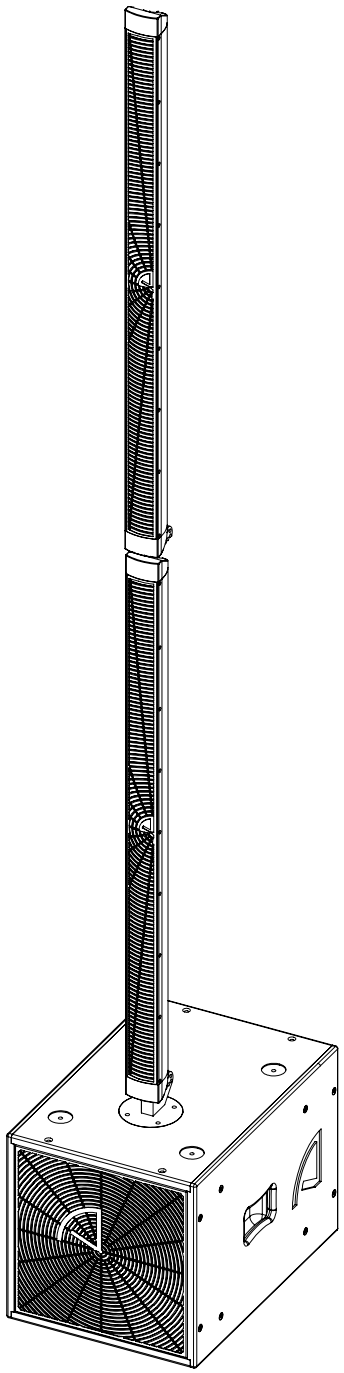
CM BASE





6.4 STANDING ON A C-SUB SUBWOOFER

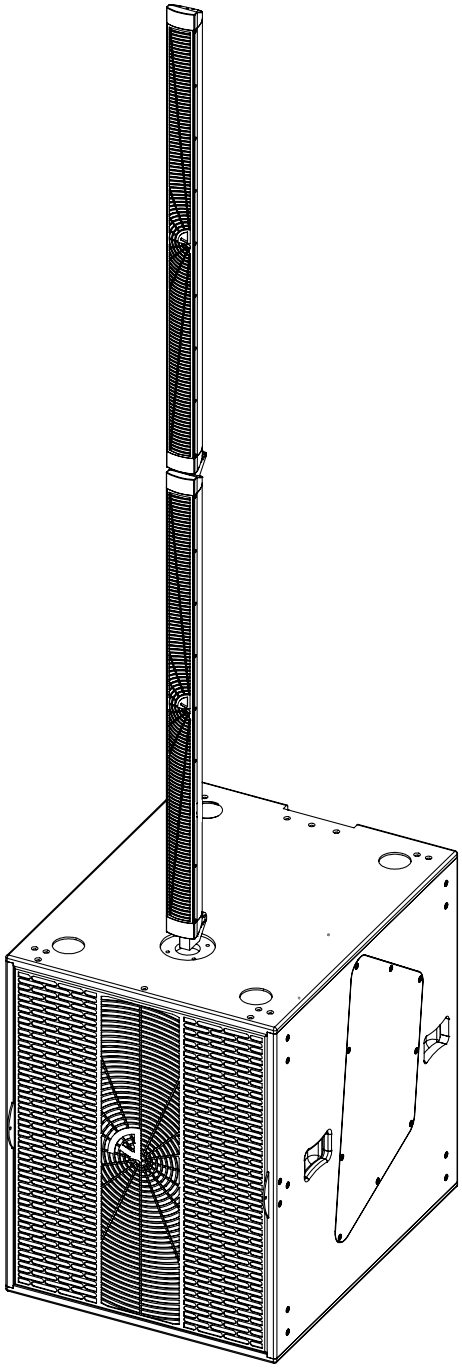
Up to two meters of Cimiline 8/Cimiline 16 can be mounted on a C-SUB subwoofer by using the CM-FOOT and CM-JOINT accessories.
Acoustically speaking, two Cimiline 16 perfectly match with a C-SUB subwoofer.



C-SUB + 2 x CIMILINE 16

6.5 STANDING ON A C-INFRA SUBWOOFER

Up to two meters of Cimiline 8/Cimiline 16 can be mounted on a C-INFRA subwoofer by using the CM-FOOT and CM-JOINT accessories.
Acoustically speaking, two Cimiline16 perfectly match with a C-INFRA subwoofer.



C-INFRA + 2 x CIMILINE 16

7. CIMILINE 8 SPECIFICATIONS

SYSTEM DATA

USABLE BANDWIDTH

Frequency response (-5 dB standard)	150 Hz - 19 k Hz
Max. sound pressure (1m, free field)	124 dB SPL

LOUDSPEAKER DATA

Nominal impedance	16 Ohm– 64 Ohm (Selectable)
Power handling capacity (RMS/peak 10 ms)	160/640 W
Nominal dispersion angle (V)	7°- 30° (selectable)
Nominal dispersion angle (H)	90°

COMPONENTS

8 x 2" Neodymium magnet with 0.75" voice coil

Ciwi Sub, Ciwi Infra or QDX-13 amplifier network

PHYSICAL DATA

Connections	2 x NL4 or
Finish	Fir-green RAL 6009® Polyurea coating
Cabinet	Extruded aluminum
Rigging	CM-BASE / CM-FLY / CM-FOOT / CM-JOINT / CM-WALL
Protection Rating	IP 45
Dimensions (H x W x D)	504 x 61 x 70 mm
	19.8 x 2.4 x 2.7"
Weight:	2.2 kg
	6,6 lb

* SPL max peak test signal: pink noise with crest factor 4

8. CIMILINE 16 SPECIFICATIONS

SYSTEM DATA

USABLE BANDWIDTH

Frequency response (-5 dB standard)	150 Hz - 19 k Hz
Max. sound pressure (1m, free field)	130 dB SPL

LOUDSPEAKER DATA

Nominal impedance	8 Ohm– 32 Ohm (Selectable)
Power handling capacity (RMS/peak 10 ms)	320/1280 W
Nominal dispersion angle (V)	7°- 30° (selectable)
Nominal dispersion angle (H)	90°

COMPONENTS

16 x 2" Neodymium magnet with 0.75" voice coil
Ciwi Sub, Ciwi Infra or QDX-13 amplifier network

PHYSICAL DATA

Connections	2 x NL4 or
Finish	Fir-green RAL 6009® Polyurea coating
Cabinet	Extruded aluminum
Rigging	CM-BASE / CM-FLY / CM-FOOT / CM-JOINT / CM-WALL
Protection Rating	IP 45
Dimensions (H x W x D)	1004 x 61 x 70 mm
	39.5 x 2.4 x 2.7"
Weight:	4.4 kg
	9.7 lb

* SPL max peak test signal: pink noise with crest factor 4