



CIWI line 6/12

USER MANUAL





CIWI line 6/12

USER MANUAL

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.



CIWI line 6/12

USER MANUAL

CONTENTS

1. INTRODUCTION	4
2. KEY FEATURES	4
3. APPLICATIONS	4
4. PHYSICAL	5
4.1 CIWILINE 6 LAYOUT	5
4.2 CIWILINE 12 LAYOUT	6
5. WIRING	7
5.1 IMPEDANCE SWITCH	7
5.2 COVERAGE SWITCH	8
6. CONFIGURATIONS AND ACCESSORIES	9
6.1 SUSPENDING FROM THE FLY-BAR	9
6.2 HANGING ON THE WALL	10
6.3 STANDING ON THE BASE	10
6.4 STANDING ON A C-SUB SUBWOOFER	11
6.5 STANDING ON A C-INFRA SUBWOOFER	12
7. CIWILINE 6 SPECIFICATIONS	13
8. CIWILINE 12 SPECIFICATIONS	14





CIWI line 6/12

USER MANUAL

1. INTRODUCTION

The ApiaProAudio Ciwiline Series are passive speaker systems, comprised of 3" neodymium magnet transducers housed in an elegant wood casing and painted with waterproof polyurea which is also available in custom RAL colors.

Ciwiline 6 features 6 drivers in a 0.5 m (19.7"), while the Ciwiline 12 features 12 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 Ciwiline 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 Ciwiline 6 and Ciwiline 12 offer selectable impedance (8 Ω /32 Ω for the Ciwiline 6 and 4 Ω /16 Ω for the Ciwiline 12).

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 Ciwiline 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. KEYFEATURES

- 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 (Ciwiline 6: 4/16 Ω ,Ciwiline 12: 8/32 Ω)

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



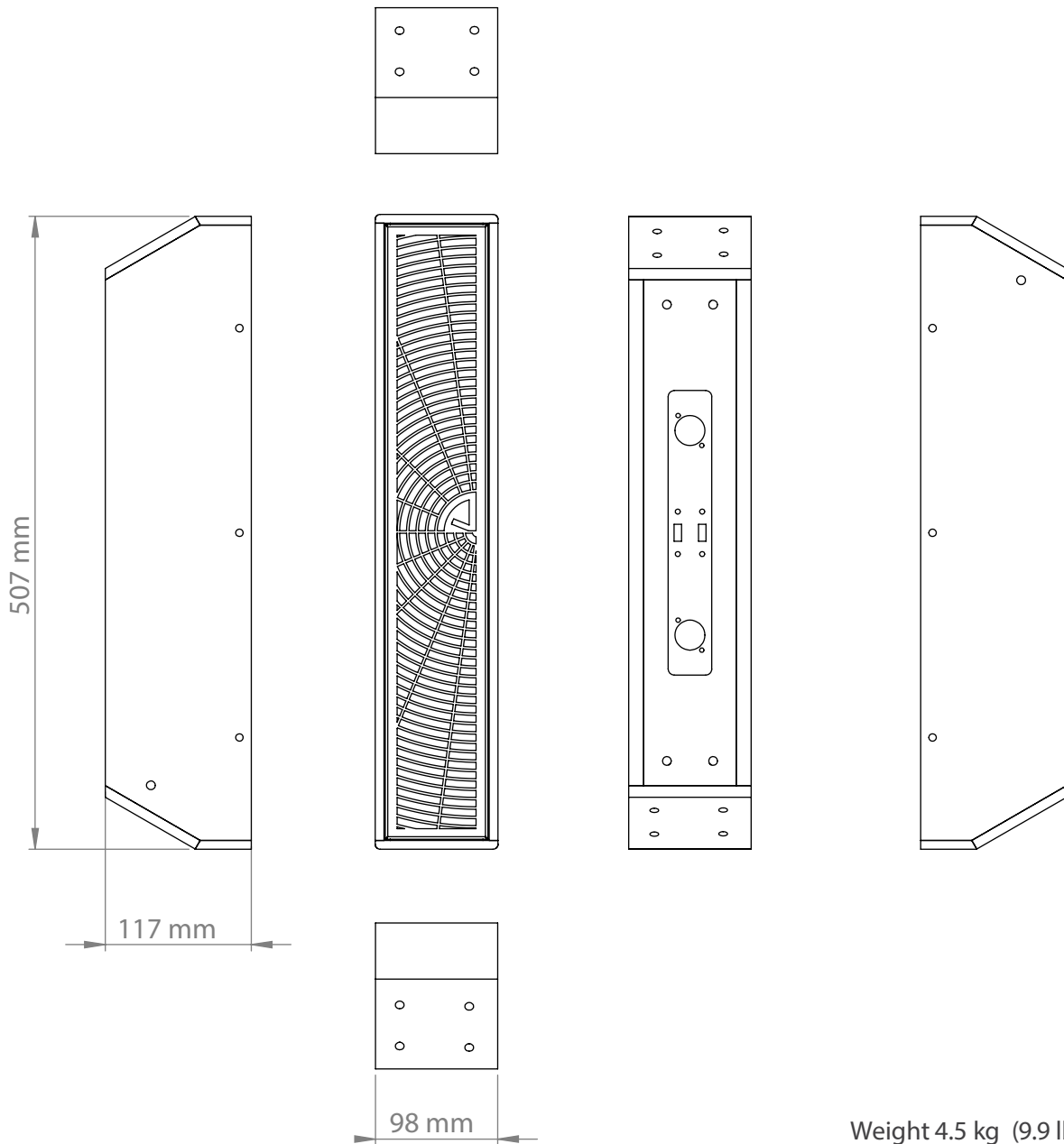


CIWI line 6/12

USER MANUAL

4. PHYSICAL

4.1 CIWILINE 6 LAYOUT



Weight 4.5 kg (9.9 lbs)

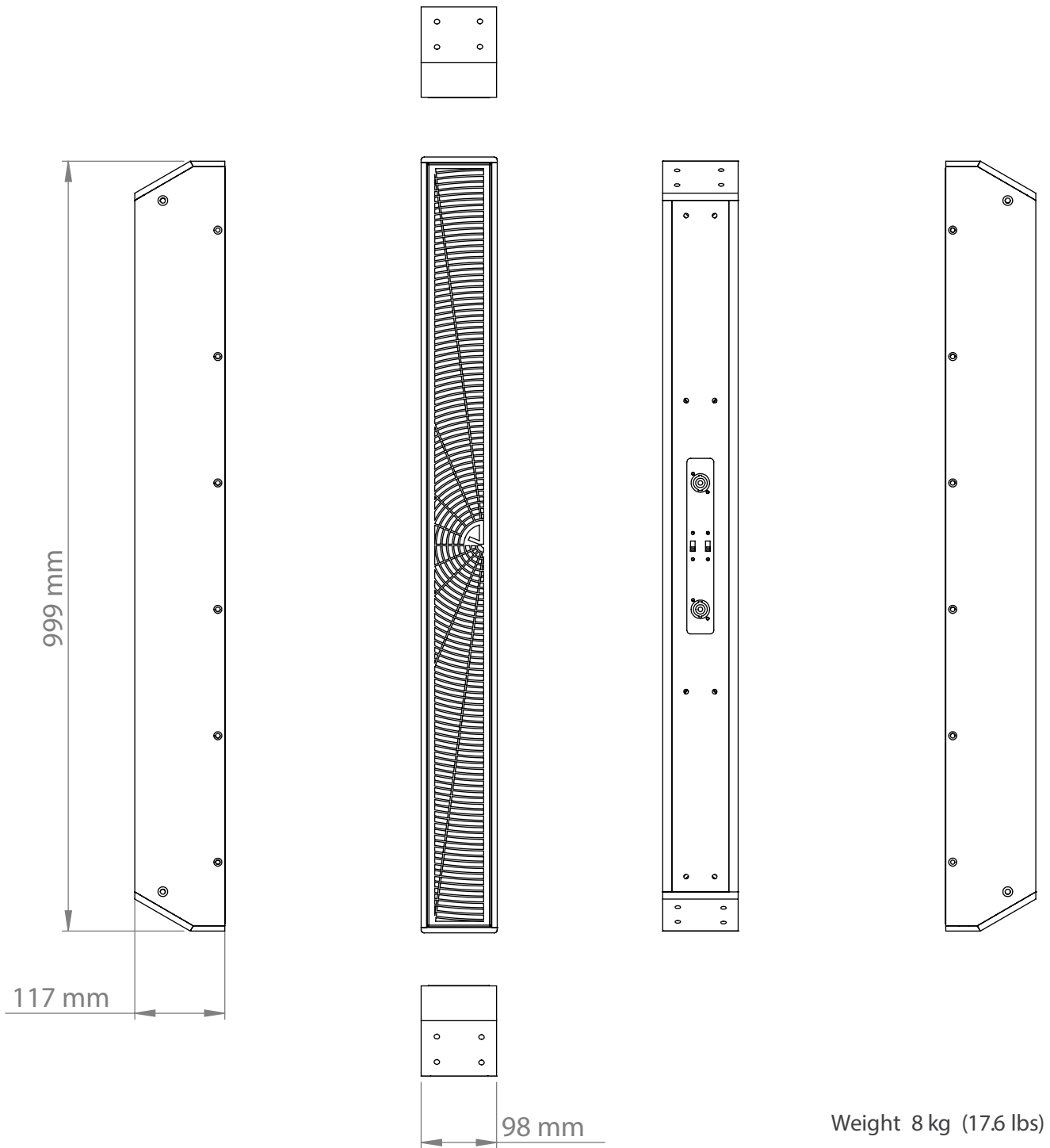




CIWI line 6/12

USER MANUAL

4.2 CIWILINE 12 LAYOUT



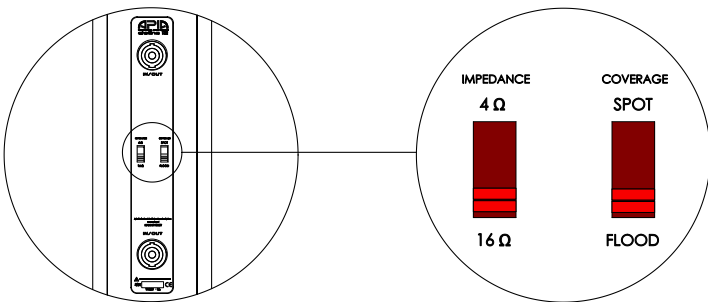
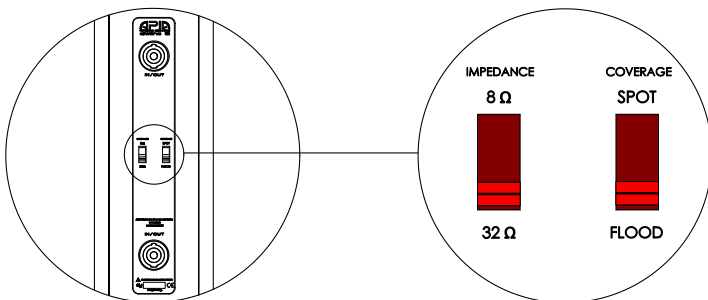
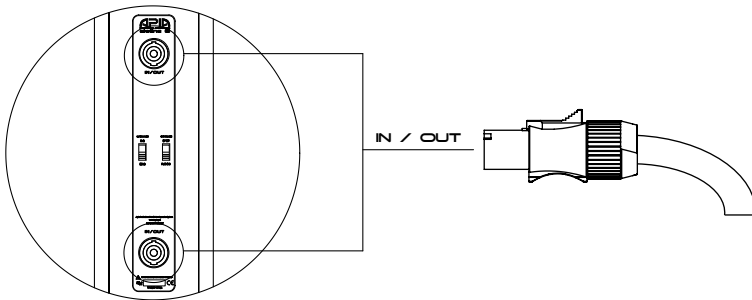


CIWI line 6/12

USER MANUAL

5. WIRING OPTION

Ciwiline 6 and Ciwiline 12 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

Ciwiline 6 and Ciwiline 12 features a switch which allows users to select the impedance of the speaker (Ciwiline 6: 8/32Ω ,Ciwiline 12: 4/16 Ω).

The value to be selected depends mainly on the amplifier you use to drive the unit. Impedance must be set to high (32 Ω for Ciwiline 6 and 16Ω for Ciwiline 12) 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.





CIWI line 6/12

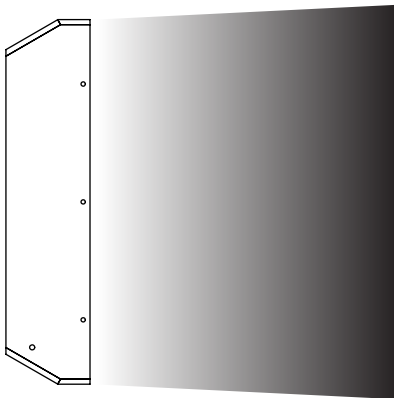
USER MANUAL

5.2 COVERAGE SWITCH

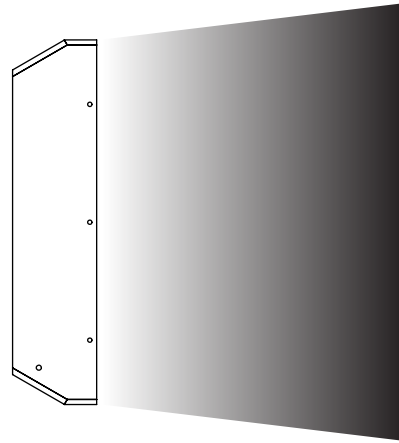
Ciwiline 6 and Ciwiline 12 features a switch which allows users to select the vertical coverage of the speaker. Flood coverage sets a wide vertical diffusion. Flood coverage is suggested for single speakers in diffused short throw applications to obtain maximum diffusion with a minimum footprint. Spot 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.

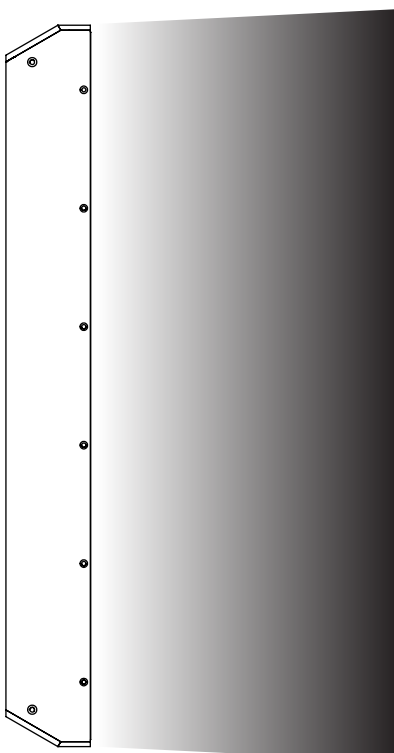
CIWILINE 6
SPOT Coverage



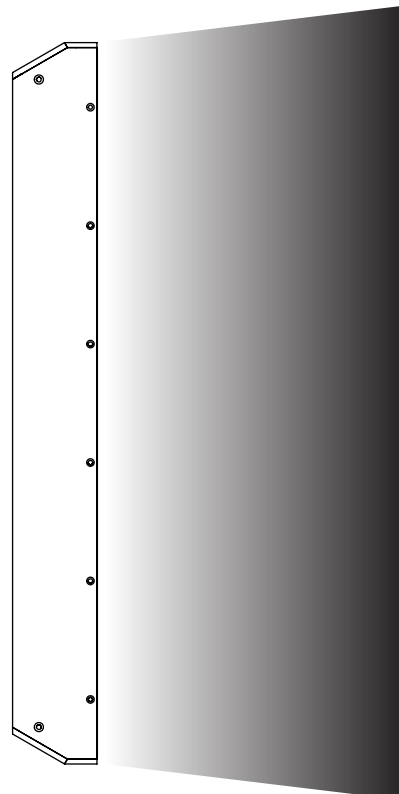
FLOOD Coverage



CIWILINE 12
SPOT Coverage



FLOOD Coverage





CIWI line 6/12

USER MANUAL

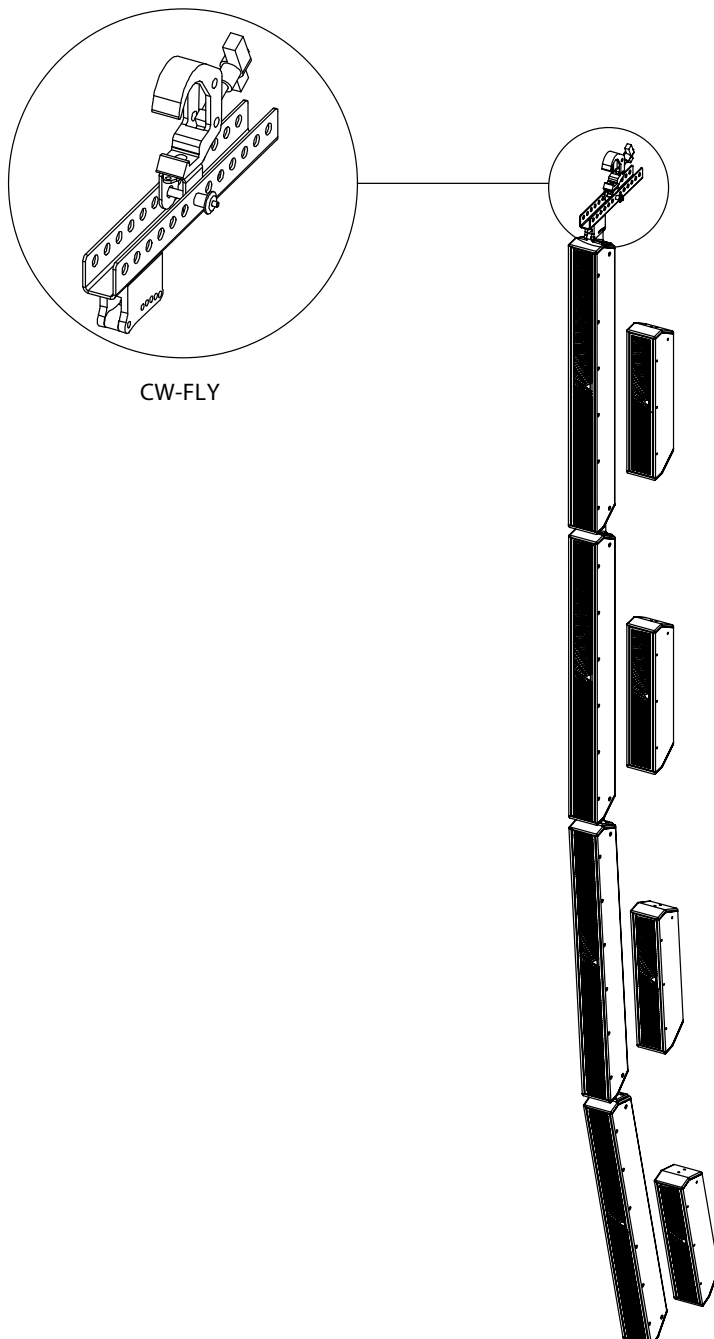
6.CONFIGURATIONS AND ACCESSORIES

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

Ciwiline 6 and Ciwiline 12 units can be suspended using the CW-FLY bar accessory and the CW-JOINT hardware accessory used to connect together two units or to connect a unit to the fly bar. Mixed configuration with both Ciwiline 6 and Ciwiline 12 in the same cluster are also possible.





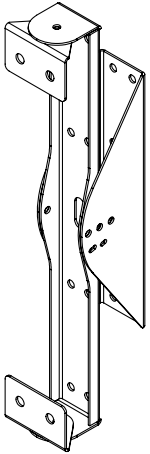
CIWI line 6/12

USER MANUAL

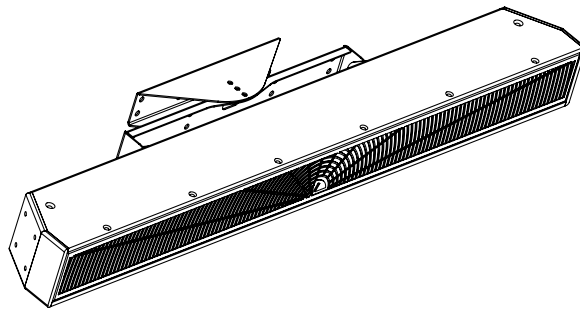
6.2 HANGING ON THE WALL

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

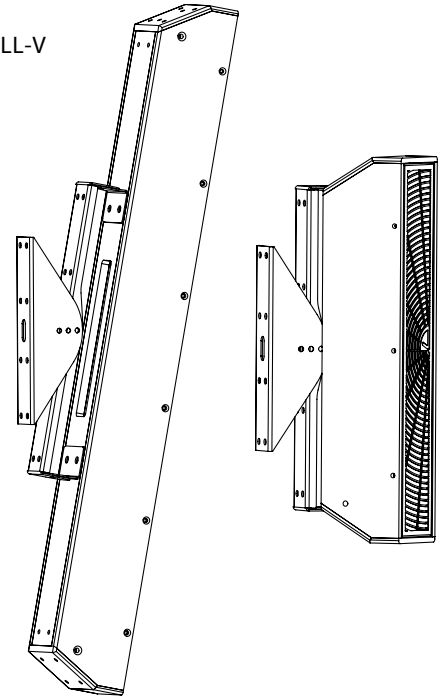
CW WALL-H-V



WALL-H



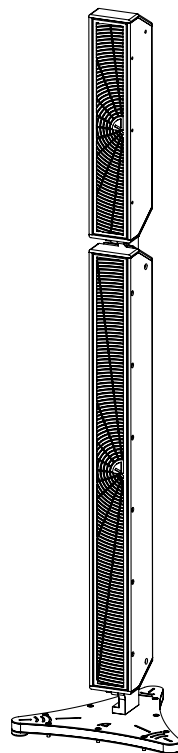
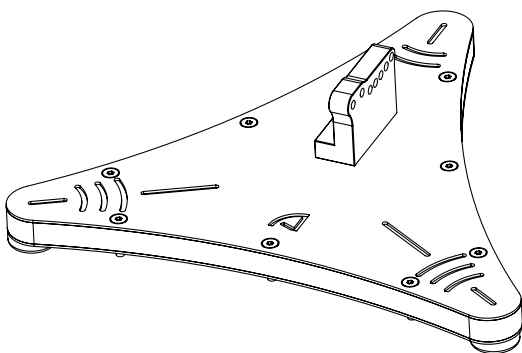
WALL-V



6.3 STANDING ON THE BASE

The CW-BASE accessory assists in standing up to 2 meters of Ciwiline 6/Ciwiline 12. For proper installation and operation, connect the units to the base with CW-FOOT and CW-JOINT accessories. Where possible, screw the feet of the CW-BASE to the ground.

CW BASE





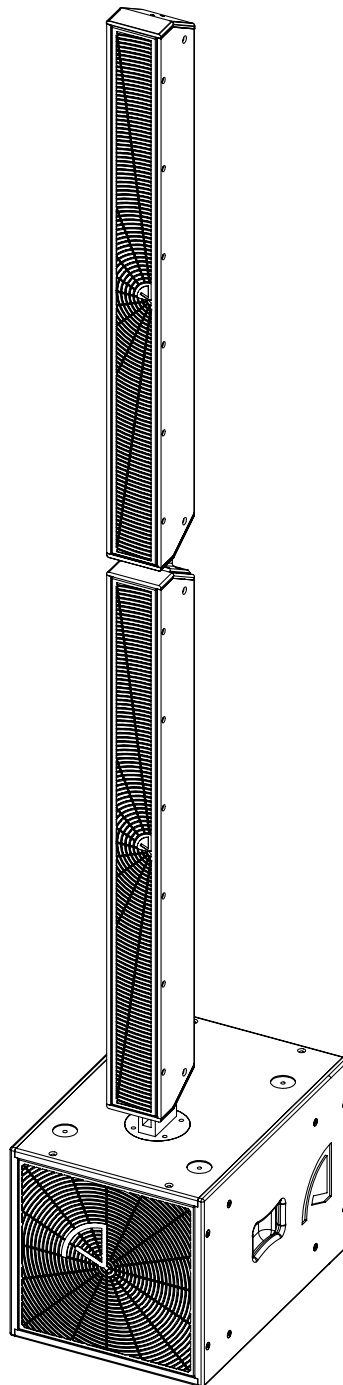
CIWI line 6/12

USER MANUAL

6.4 STANDING ON A C-SUB SUBWOOFER

Up to two meters of Ciwiline 6/Ciwiline 12 can be mounted on a C-SUB subwoofer by using the CW-FOOT and CW-JOINT accessories.

Acoustically speaking, two Ciwiline 12 perfectly match with a C-SUB subwoofer.



C-SUB + 2 x CIWILINE 12





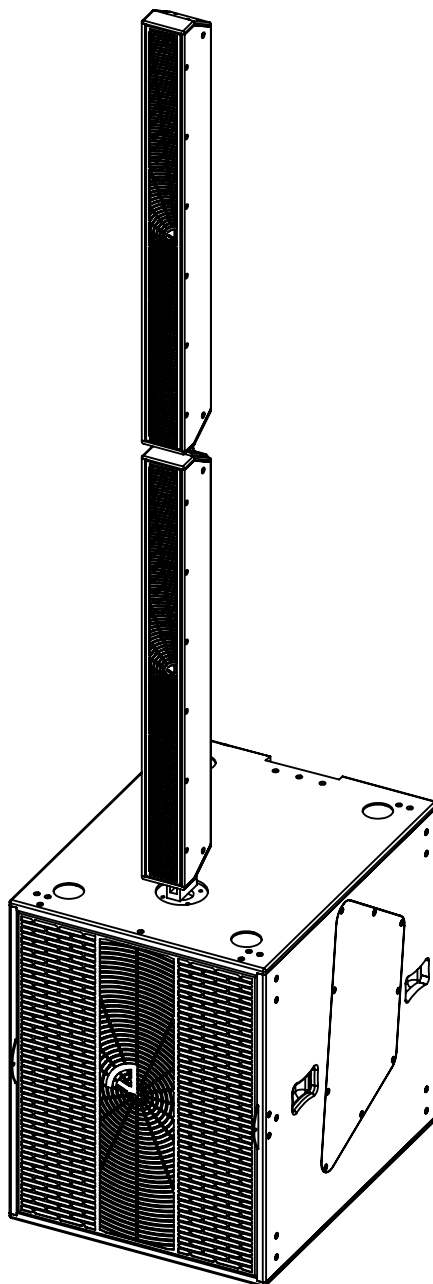
CIWI line 6/12

USER MANUAL

6.5 STANDING ON A C-INFRA SUBWOOFER

Up to two meters of Ciwiline 6/Ciwiline 12 can be mounted on a C-INFRA subwoofer by using the CW-FOOT and CW-JOINT accessories.

Acoustically speaking, two Ciwiline 12 perfectly match with a C-INFRA subwoofer.



C-INFRA + 2 x CIWILINE 12





CIWI line 6/12

USER MANUAL

7. CIWILINE 6 SPECIFICATIONS

SYSTEM DATA

USABLE BANDWIDTH

Frequency response (-5 dB standard)	125 Hz - 19 k Hz
Max. sound pressure (1m, free field)	128 dB SPL

LOUDSPEAKER DATA

Nominal impedance	8 Ohm – 32 Ohm (Selectable)
Power handling capacity (RMS/peak 10 ms)	120/480 W
Nominal dispersion angle (V)	7°- 10° (selectable)
Nominal dispersion angle (H)	90°

COMPONENTS

6 x 3" 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	Baltic birch plywood
Rigging	CW-BASE / CW-FLY / CW-FOOT / CW-JOINT / CW-W ALL
Protection Rating	IP 45
Dimensions (H x W x D)	507 x 98 x 117 mm
	20 x 3.8 x 4.6"
Weight:	4.5 kg
	10 lb

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





CIWI line 6/12

USER MANUAL

8. CIWILINE 12 SPECIFICATIONS

SYSTEM DATA

USABLE BANDWIDTH

Frequency response (-5 dB standard)	125 Hz - 19 k Hz
Max. sound pressure (1m, free field)	132 dB SPL

LOUDSPEAKER DATA

Nominal impedance	4 Ohm- 16 Ohm (Selectable)
Power handling capacity (RMS/peak 10 ms)	240/960 W
Nominal dispersion angle (V)	7°- 30° (selectable)
Nominal dispersion angle (H)	90°

COMPONENTS

12 x 3" 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	Baltic birch plywood
Rigging	CW-BASE / CW-FLY / CW-FOOT / CW-JOINT / CW-WALL
Protection Rating	IP 45
Dimensions (H x W x D)	999 x 98 x 117 mm
	39.3 x 3.8 x 4.6"
Weight:	8 kg
	17.6 lb

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

