

# CLIMATE GARDEN SERIES

Installation Guide

Guide d'installation

Manuale di installazione

Installationsanleitung

Guía de instalación

Guia de instalação

Installatiehandleiding

安装指南

インストールガイド

Руководство по установке

دليل التركيب



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## Introduction

Bring high fidelity sound to the great outdoors with Monitor Audio's latest custom installation solution, the Climate Garden Series. Designed from the ground up with high quality components and construction to take whatever the weather can throw at them. Aesthetically they will blend seamlessly into the garden environment. To get the most out of your new speakers, please read this manual thoroughly before you begin installation.

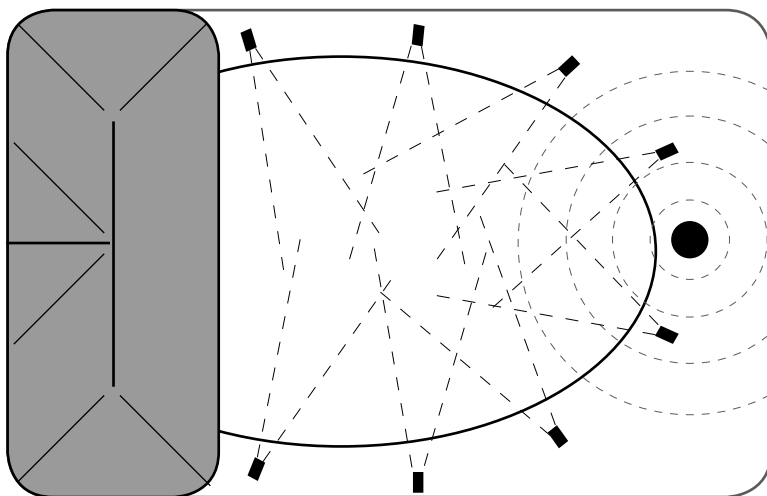
## Wiring the Speakers and Subwoofer

The CLG140/ CLG160 speakers work off a 100v/ 70v system and CLG-W10/ CLG-W12 can work off a 100v/ 70v system or can be hooked up to a conventional amplifier (8 Ohm tap). **NOTE:** This will not work if connected to the subwoofer output at phono level. A 70v Line system is mainly used in the U.S whereas the U.K and Europe use 100v line systems. The two different voltages will work just the same, although the amplifier may not deliver its full power into 100v as this will be limited by the voltage rails –unless it is switchable. The 8 Ohm tap is conventional speaker impedance and it means only one sub per channel can be used, in contrast to using 100/ 70v line, where you can use multiple subs in a system. It is transformer isolated, and it will protect the speaker from D.C. offset or D.C. amp faults.

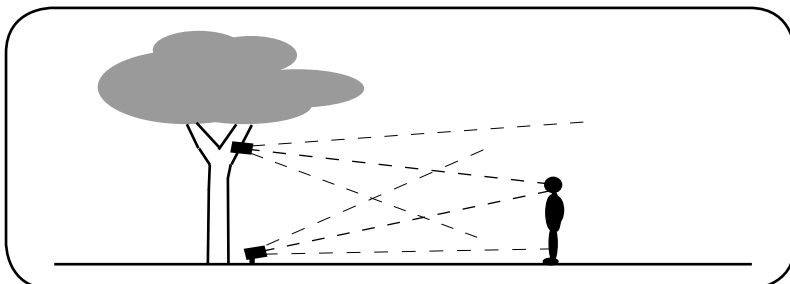
The speakers should be connected in parallel from a single cable run per channel. We also recommend using the IA800-2C amplifier and our bespoke DSP settings.

## Speaker Positioning

The Climate Garden Series is designed to deliver a seamless, evenly dispersed audio experience in an 'open air' environment. To minimize the occurrence of 'hot spots' and 'nulls' as you move around the outdoor entertainment area, an array of multiple satellite speakers can be strategically placed for even coverage. The CLG140/ CLG160 satellite speakers can cover an area up to 250 square feet and should be positioned an equal distance from each other and the listening area, or as close as possible. A single CLG-W10/ CLG-W12 subwoofer can cover an area between 1000 - 2000 square feet. We would recommend placing the subwoofer in a central location in accordance with the other speakers.



To centralise the sound stage both high and low speakers can be used.



## Installation

Please follow the following steps in the below section for burying the CLGW12 or CLGW10 in the ground. Alternatively for securing the CLGW10 to a hard floor refer to page 5.

### CLG-W10/ CLG-W12

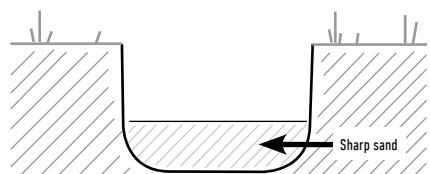
- 1 Dig a hole in the intended location for the subwoofer and fill the base of the hole with sharp sand. This is to improve stability, assist in levelling and prevent the sub from rocking in place.

Approximate hole dimensions (H x W x D):

600 x 600 x 400mm (CLGW-12)

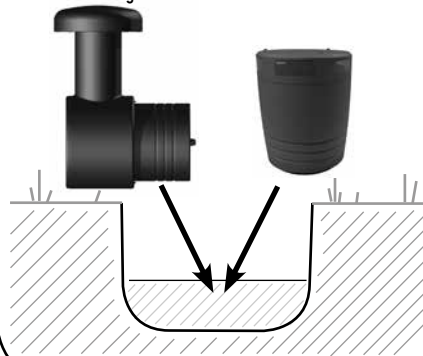
400 x 400 x 310mm (CLGW-10)

Sand depth: 150mm (6")

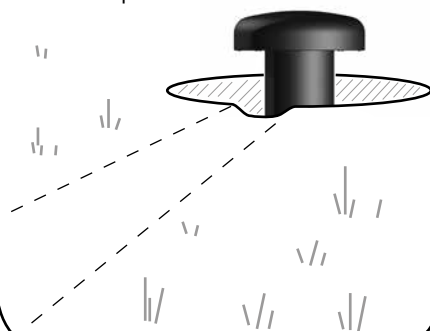


- 2 Place the subwoofer in the hole and push it into the sand so that it stays still and can be levelled/ made square.

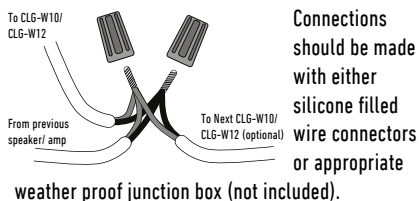
**CLG-W10 NOTE:** There must be at least 100mm of cabinet above ground level.



- 3 Dig a shallow trench along the path of where you wish to run the subwoofer's speaker cables. If using the CLG140/ CLG160 speakers there is no reason the cables for these cannot be doubled up in the same trench as the subwoofer's speaker cables.



- 4 Connect cables to subwoofer. For 100/70v lines connect to the black and red cables, for conventional 8 ohm lines connect to the yellow and black. Where black is the negative.



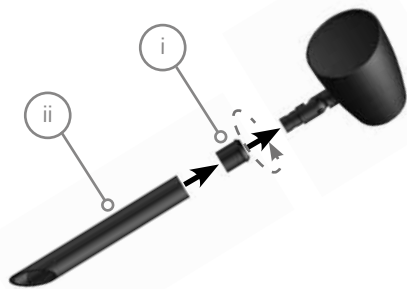
**Note:** Ensure that no '-' and '+' strands are touching each other as this will cause a short circuit that could damage your amplifier.

**NOTE:** Ensure the system is tested and working correctly before filling in around the subwoofer and cable trenches.

**NOTE:** The bass from the CLG-W10/ CLG-W12 will not be as full or prominent until the hole is filled in.

## CLG140/ CLG160 - With Spike

- 1 First screw the threaded section supplied (i) onto the CLG140/ CLG160 speaker, once secure thread the cables attached to the speaker through the hole in the spike before attaching the spike to the threaded section (ii).



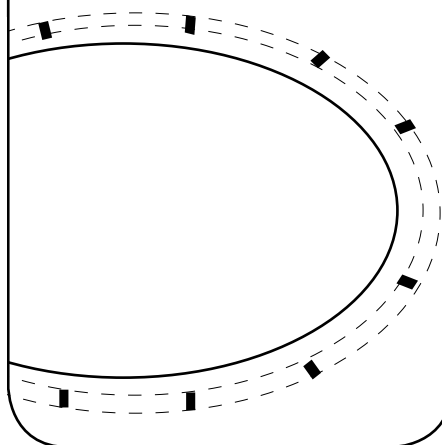
- 2 Once assembled, the speaker can now be installed in the desired location.



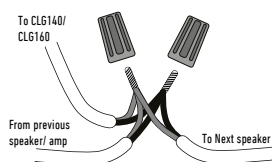
The pivot angle of the CLG140/ CLG160 can be adjusted using an allen key.

**Note: It is advised to hold the speaker from the spike whilst doing this so that no pressure is placed on the pivoting section.**

- 3 Dig a shallow trench along the path of where you wish to run the speaker cables.



- 4 Connect speaker's cables in parallel with the main run of cable from the amplifier combining all positive cable together and all negative cables together.



Connections should be made with either silicone filled wire connectors (example

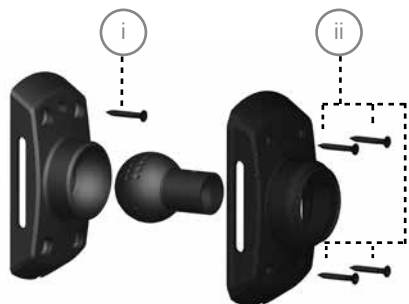
opposite) or appropriate weather proof junction box (not included).

**Note: Ensure that no '-' and '+' strands are touching each other as this will cause a short circuit that could damage your amplifier.**

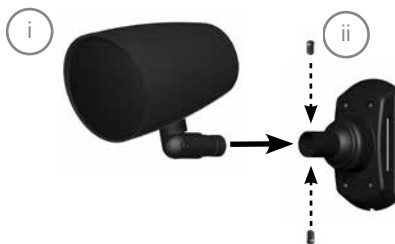
**NOTE: Ensure the system is tested and working correctly before filling in around the subwoofer and cable trenches.**

## CLG140/ CLG160 - Wall Mount

- 1 Fix the base of the mount to the intended location with a single screw (i), then insert the ball fixing arm and top half of the mount assembly, attach loosely with four screws (ii).



- 2 Feed the speaker cable into the bracket and out through the cable exit hole. Place the CLG140/ CLG160 (i) onto the bracket and fit the grub screws (ii) but do not fully tighten. Adjust the CLG140/ CLG160 to the desired direction/ angle and tighten the four mount screws (refer to step 1) followed by the grub screws (ii) to secure in place.



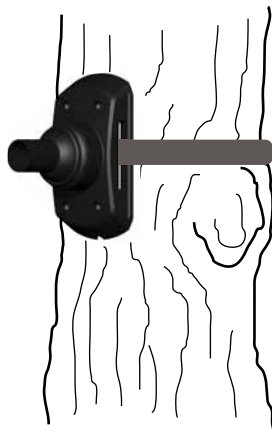
**HINT:** To assist in threading the speaker cable through the mount we would advise having the ball fixing arm angled upwards.

## CLG140/ CLG160 - Tree Mount

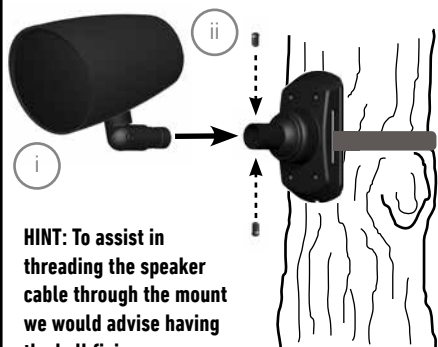
- 1 Assemble the two halves of the mount with the ball fixing arm in the middle and secure it together using the supplied nuts and bolts supplied with the mount.



- 2 A tree belt (not included) can now be threaded through the opening in the sides of the mount. Wrap this around the intended tree and fasten the belt tightly to prevent movement.

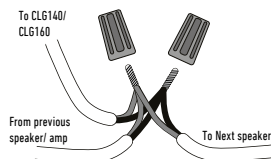


- 3 Once the mount is fixed to the intended location, thread through the speaker cable and attach the CLG140/ CLG160 (i). Secure in place with the two grub screws (ii).



**HINT:** To assist in threading the speaker cable through the mount we would advise having the ball fixing arm angled upwards.

- 4 Connect speaker's cables in parallel with the main run of cable from the amplifier combining all positive cable together and all negative cables together.



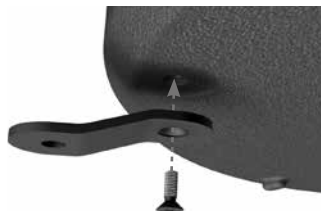
Connections should be made with either silicone filled wire connectors or appropriate weather proof junction box (not included).

**Note:** Ensure that no '-' and '+' strands are touching each other as this will cause a short circuit that could damage your amplifier.

## CLG-W10 Foot Options

The CLG-W10 comes with outrigger anchors to be used for securing the subwoofer in place to the floor i.e. a decking area. There are three threaded inserts on the subwoofer lid with the screws already fitted. Remove the screws and then reattach them with the outriggers.

**NOTE:** Screws for securing the outrigger anchors to the floor are not supplied and should be selected according to the construction of the floor they will be going into.



## System Setup

To power the system we would recommend using the IA800-2C amplifier. For optimum performance from the system download the Monitor Audio IA800-2C preset DSP settings from our website: [monitoraudio.com](http://monitoraudio.com)

These preset DSP settings have been designed by Monitor Audio to bring the best performance from your satellite speakers and subwoofer, with a crossover in place to direct only the low frequencies to the subwoofer and mid-highs to the satellites. This will allow each component to focus on what is does best, adding clarity to the system and also protecting the satellite speakers from potentially harmful/ overbearing sub frequencies.

**NOTE:** A maximum of 16 satellite speakers can be used per channel, or 3 subwoofers per channel.

## Monitor Audio Preset DSP List

- CLG-W10(CLG160)** - CLG-W10 subwoofer for use with the CLG160
- CLG-W10(CLG140)** - CLG-W10 subwoofer for use with the CLG140
- CLG-W12(CLG160)** - CLG-W12 subwoofer for use with the CLG160
- CLG-W12(CLG140)** - CLG-W12 subwoofer for use with the CLG140
- CLG140/CLG160** - For use with either the CLG140 or the CLG160

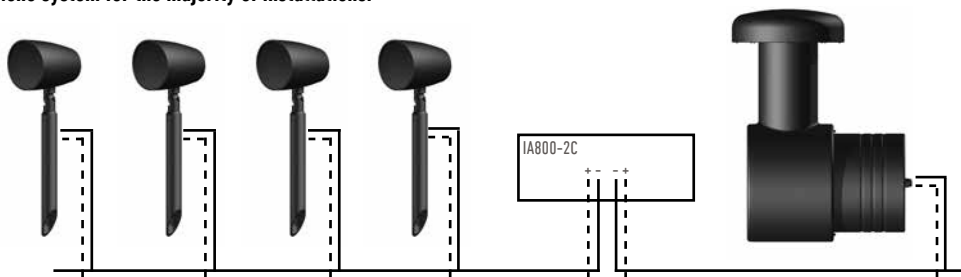
## Mono System

Go to the set up web page of the IA800-2C and load the MA presets onto the amplifier. Now go into the 'Input/ Output Settings' tab select the 'CLG140/CLG160' for the channel you intend to use with your satellite speakers. For the other channel set this to the corresponding preset for your subwoofer/ satellite combination (refer to page 5). Set both channels to Mono, separate Control Zones (for independent channel volume control) and the Amp mode to 70v.

**Note:** Due to the nature of garden listening Monitor Audio would recommend a Mono system for the majority of installations.

### Output Setup

Channel	1 LEFT	1 RIGHT
Output Name	Sub	Speakers
Stereo/Mono	Mono ▼	Mono ▼
DSP Preset	CLG-W10/CLG	CLG140/CLG
Control Zone	A ▼	B ▼
Zone Power	ON ▼	ON ▼
Amp Mode	70V ▼	



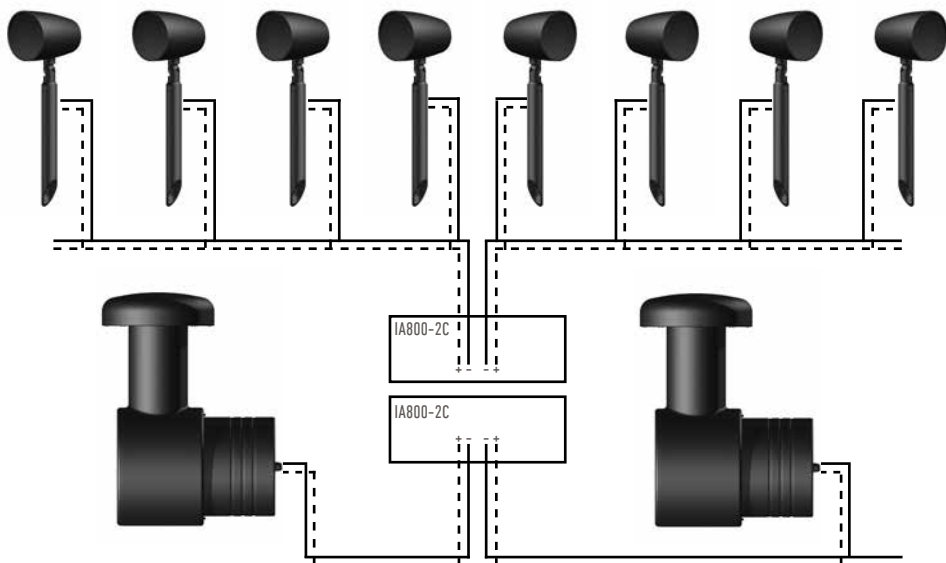
## Stereo System

Go to the set up web page of the IA800-2C and load the MA presets onto the amplifier. Now go into the 'Input/ Output Settings' tab and select the 'CLG140/CLG160' for both channels for your satellite speakers. Set both channels to Stereo, separate Control Zones (for independent channel volume control) and the Amp mode to 70v.

For the addition of any subwoofers on a second amplifier set the channels to Stereo, separate Control Zones (for independent channel volume control) and the Amp mode to 70v.

### Output Setup

Channel	1 LEFT	1 RIGHT
Output Name	Speakers Left	Speakers Right
Stereo/Mono	Stereo ▼	Stereo ▼
DSP Preset	CLG140/CLG	CLG140/CLG
Control Zone	A ▼	B ▼
Zone Power	ON ▼	ON ▼
Amp Mode	70V ▼	





## Specifications

	<b>CLG140</b>	<b>CLG160</b>
<b>Frequency Response (-6dB)</b>	100Hz – 30KHz	80Hz – 30KHz
<b>Sensitivity (1W@1m)</b>	88dB	89dB
<b>Line Level Voltage</b>	70/100	70/100
<b>Maximum S.P.L</b>	104 dBA	107 dBA
<b>Power Handling</b>	40 watts (crossover set to minimum 100Hz@12dB/Octave)	60 watts (crossover set to minimum 80Hz@12dB/Octave)
<b>Amplifier Requirements (RMS)</b>	10-40 watts per speaker	10-60 watts per speaker
<b>Driver Complement</b>	1 x 4" MMPiI cone bass-mid driver 1 x 25mm C-CAM Gold Dome tweeter – Coaxially oriented	1 x 6" MMPiI cone bass-mid driver 1 x 25mm C-CAM Gold Dome tweeter – Coaxially oriented
<b>Crossover Recommendation (high pass)</b>	100Hz at a minimum of 12dB/Octave (24dB/Octave optimum)	80Hz at a minimum of 12dB/Octave (24dB/Octave optimum)
<b>External Dimensions, excluding spike/ mount (Diameter x D)</b>	130 x 175mm (5 <sup>1/8</sup> x 6 <sup>7/8</sup> inches)	190 x 220mm (7 <sup>1/2</sup> x 8 <sup>11/16</sup> inches)
<b>Bracket Pivot Angle</b>	32° in all directions	32° in all directions
<b>Connection</b>	Encapsulated cable connection	Encapsulated cable connection
<b>Environmental Protection Rating</b>	IP55	IP55
<b>Finishes Available</b>	Brown	Brown
<b>Weight</b>	2.08kgs (4lb 10oz)	2.76 kg (6lb 2oz)
<b>Dispersion</b>	60°	60°

	CLG-W10	CLG-W12
<b>Frequency Response (-6dB)</b>	35Hz – 150Hz	30Hz – 100Hz
<b>Sensitivity (1W@1M)</b>	85dB	87dB
<b>Impedance (nominal)</b>	4 Ohms or 70/100 Volt line level (cable select)	4 Ohms or 70/100 Volt line level (cable select)
<b>Maximum S.P.L</b>	105dB @100Hz	110dBA
<b>Power Handling</b>	150 Watts (IEC268-5)	250 watts
<b>Amplifier Requirements (RMS)</b>	100-150 watts	100-250 watts
<b>Driver Complement</b>	1 x 10" C-CAM cone, long throw sub-bass driver	1 x 12" C-CAM cone, long throw sub-bass driver
<b>Crossover recommendation (low pass)</b>	100Hz at a minimum of 12dB/Octave (24dB/Octave optimum)	100Hz at a minimum of 12dB/Octave (24dB/Octave optimum)
<b>External Dimensions: (H x W x D)</b>	340 x 340 x 434.5mm (13 <sup>3/8</sup> x 13 <sup>3/8</sup> x 17 <sup>1/8</sup> inches)	750 x 380 x 505.5mm (19 <sup>1/2</sup> x 14 <sup>15/16</sup> x 19 <sup>7/8</sup> inches)
<b>Connection</b>	Encapsulated cable connection	Encapsulated cable connection
<b>Environmental Protection Rating</b>	IP54	IP54
<b>Finishes Available</b>	Brown	Brown
<b>Weight</b>	11.8Kgs (26lb)	19.5kgs (42lb 14oz)

Monitor Audio reserves the right to alter specifications without notice.

## Guarantee

Both the craftsmanship and the performance of the CLG140/ CLG160 and CLG-W10/ CLG-W12 is guaranteed against manufacturing defects for a period of **five years** from the date of purchase (see conditions in the Important Safety Instructions booklet), provided that the product was supplied by an authorised Monitor Audio retailer under the consumer sale agreement.

To help us find your warranty details within our customer database, should the need arise, please take a few minutes to register your product(s) online at: [www.monitoraudio.com](http://www.monitoraudio.com).



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**Designed & Engineered in the United Kingdom**

**Made In China**

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