



**GDS 20**  
**100V / 8Ω Outdoor**  
**Garden Speaker**  
User Manual



**Order code: CRSP56**

## WARNING

### FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all the parts are present.
- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- Retain the carton and all packaging materials.
- In the event that a fixture must be returned to the supplier, it is important that the fixture is returned in the original carton and packaging.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.



#### IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never leave any cables lying around.
- Do not use the unit near stoves, heaters, radiators, or other heat producing devices.
- Do not insert any objects into the air vents.
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not expose to flammable sources, liquids or gases.
- Do not use the incorrect cables or defective cables.
- Do not drive the inputs with a signal level higher than required to drive the equipment to its full output
- Prevent distortion! Make sure that all components connected to the speaker have sufficient power ratings. Distortion will be generated if the components are operated at their limits.
- The user is responsible for correct positioning and operation of this fixture. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this equipment.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY: Three year from date of purchase.

#### OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Incase of malfunction this device should be returned for service or inspection.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

### GDS 20 100V / 8Ω Outdoor Garden Speaker

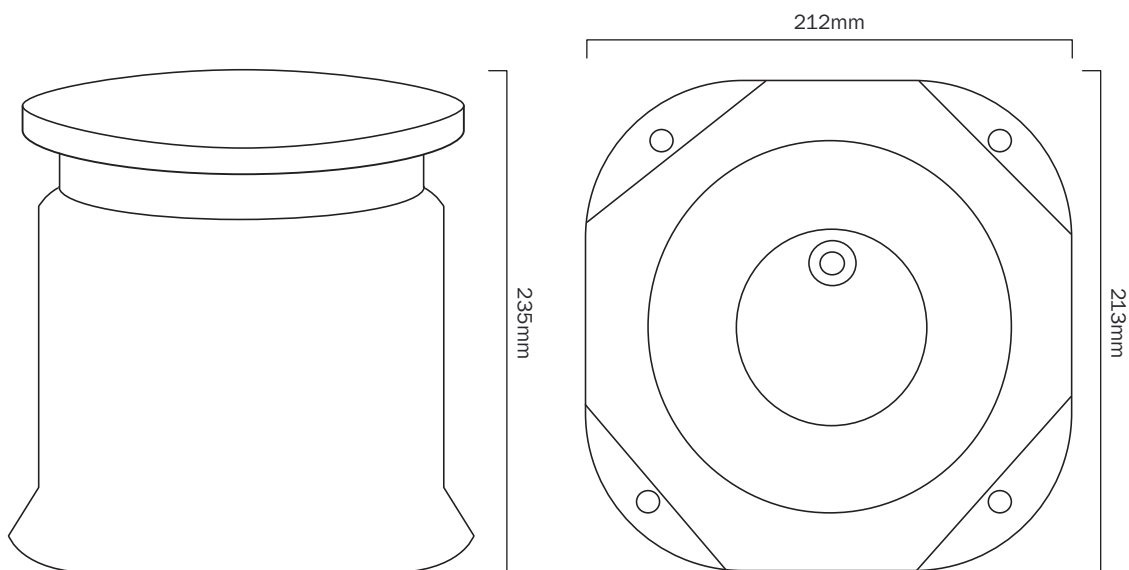
The GDS 20 outdoor loudspeaker is ideally suited for use in open spaces such as parks, gardens and hotel grounds where a discrete, background music solution is required. Featuring a two-way driver arrangement, the GDS 20 reproduces a wide frequency response, dispersed through 360°. Housed in a rugged, IP66 ABS cabinet with cable entry on the underside, the loudspeaker may be fixed in position using the four fixing points, one in each corner of the base.

- Internal 100V/70V transformer
- Two way driver configuration for a wide frequency response
- Multiple power taps
- 360° wide sound dispersion
- IP66 rated ABS enclosure with four fixing points



Specifications	GDS 20
Input	100V, 70V, 8Ω
Power taps @ 100V	5W, 10W, 20W
Power taps @ 70V	2.5W, 5W, 10W
Impedance	2KΩ, 1KΩ, 500Ω, 8Ω
Sensitivity (1W/1m)	95dB
Maximum SPL (Rated W/1m)	100dB
Frequency response	80Hz-15kHz
Connections	Flying leads
IP rating	IP66
Dimensions	235 x 212 x 213mm
Weight	1.73kg
Order code	CRSP51

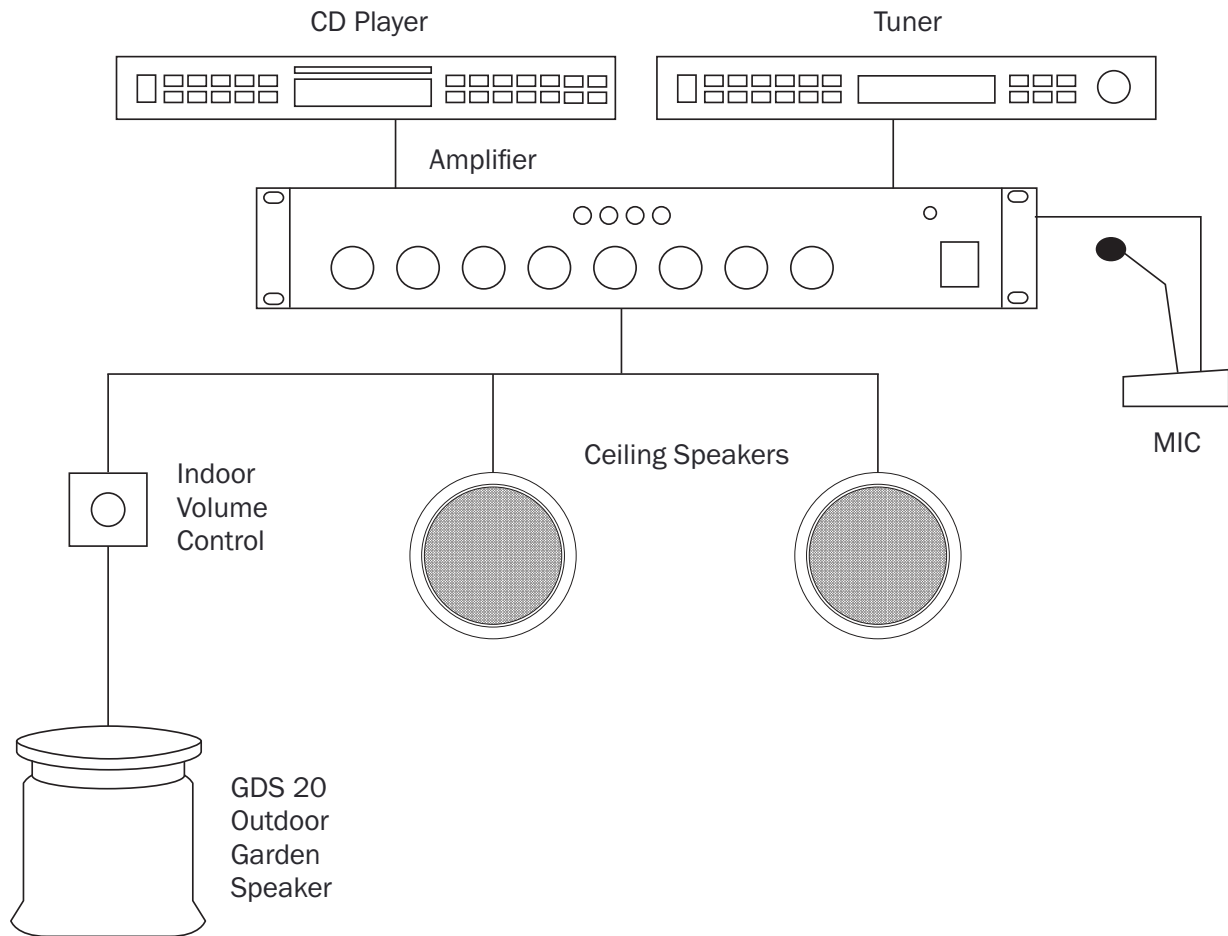
In the box: **1 x speaker**  
& **1 x user manual**



### Installation configuration

The GDS 20 should be located on a flat, level and firm surface positioned away from pathways to prevent trip hazards. Each corner of the GDS 20 features a predrilled hole suitable for fixing the loudspeaker to the ground, these should not be used for mounting the loudspeaker above ground level. The loudspeaker is designed to distribute background music through 360° in and around hotel grounds, gardens and outdoor spaces. The loudspeaker should be mounted in the upright position with the connecting cable exiting towards the ground to prevent moisture ingress.

### Example system configuration



**Important installation advice**

- All loudspeakers have to be connected to either the constant voltage line and wired in parallel, or low impedance and wired to provide the correct load to the amplifier.
- The output power is selectable using the wires provided on the base of the speaker.
- As the voltage on the line can approach 100V, installation must follow the best practice with double insulated cable being used. Cable runs should be kept away from any potential source of interference such as 3 phase mains, data cables, telecom cables etc.
- 100V line systems must always be wired in parallel and the total load presented to the amplifier must not exceed the rated output of the amplifier or damage can result.
- You must NEVER mix 100V line and low impedance speakers on the same system.
- DO NOT run microphone cables near mains, data, telephone or 100V line cables.
- DO NOT exceed 90% of the amplifiers output power when using 100V line (speech only).
- DO NOT exceed 70% of the amplifiers output power when using 100V line (high level background music only).
- ENSURE that all loudspeakers are in-phase.
- ENSURE that there are no short circuits on the loudspeaker line before connection of the amplifier.
- Where it is intended to use multiple low impedance speakers to cover an area, the speakers must be wired in a series/parallel arrangement in such a way as to present the correct load to the amplifier.
- Note: The total load impedance presented to the amplifier must never be below the rated amplifier impedance, otherwise damage can result.

**Connection instructions**

The loudspeaker may be used with either 100V or low impedance systems. Care should be taken to connect the loudspeaker using the correct combination of wires for the desired application. Connections should be made using suitable IP rated terminal junction boxes (not supplied).

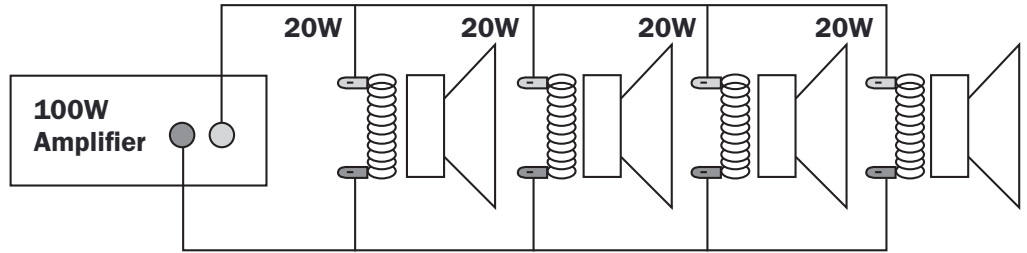
<b>Connections</b>	<b>8Ω</b>
Positive (+ve)	White
Negative (-ve)	Black

<b>Connections</b>	<b>100V / 70V</b>
Common	Blue
100V 20W, 70V 10W	Yellow
100V 10W, 70V 5W	Green
100V 5W, 70V 2.5W	Red

### 100V examples:

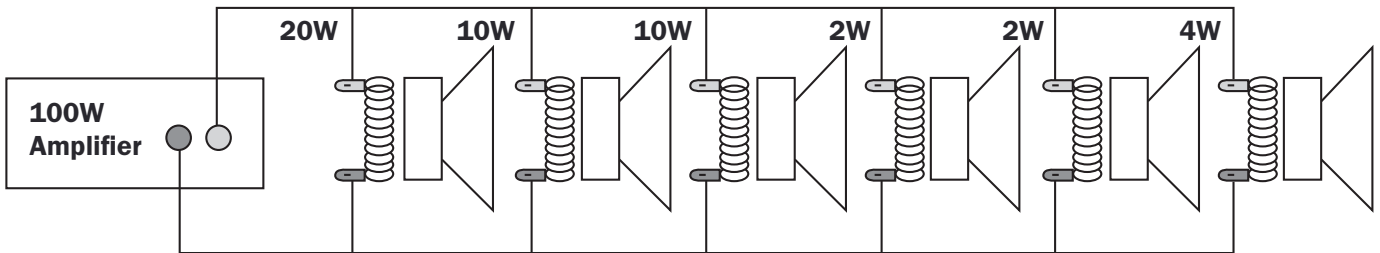
Standard 100V line

4 x 20W - 80W load



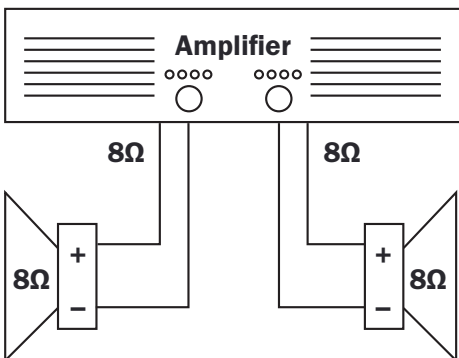
Multi-tap 100V line

20 + 10 + 10 + 2 + 2 + 4 = 48W load

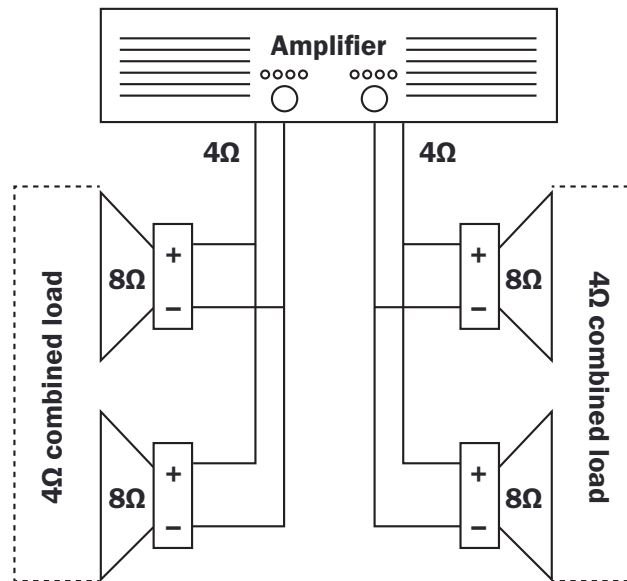


### 8Ω examples:

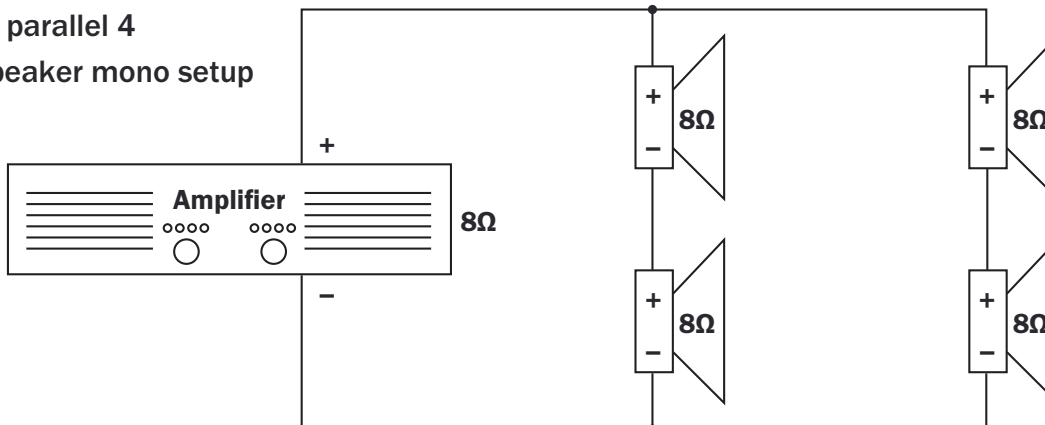
Standard 2 loudspeaker setup



Parallel 4 loudspeaker setup



Series parallel 4 loudspeaker mono setup





***Correct Disposal of this Product  
(Waste Electrical & Electronic Equipment)***

**(Applicable in the European Union and other European countries  
with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



## Public Address solutions from Clever Acoustics

Clever Acoustics wide range of 100V and low impedance products has been designed to offer the installer a comprehensive audio solution. With options for both indoor and outdoor installations the products provide cost effective solutions without compromise on quality or intelligibility.

Throughout the whole product portfolio the range has been designed to be installed with minimum fuss and simple touches including cut out templates for the **ceiling loudspeaker ranges** or Quick-Fixx® fast fit installation brackets featured on the **BGS-20T Series**.

When designing the range of mixer amplifiers our engineers have taken into account that not all amplifiers are tucked away in rack cabinets, with this in mind the **MA Series Mixer Amplifiers** and **SL Series Slave Amplifiers** all feature heavy gauge brushed aluminium, black anodised front panels, maximising quality and aesthetics.

The range includes:

### Speakers

- Ceiling
- Column
- Background
- Horn
- Projector
- Pendant
- Wall Mount

### Amplifiers

- Mixer
- Slave
- Compact

### Accessories

- Paging microphones
- Volume controls

To view the full range of Clever Acoustic products and to keep up-to-date on our latest additions visit [www.cleveracoustics.co.uk](http://www.cleveracoustics.co.uk)