

# WH 2.1 SYSTEM

WH-C  
WH-SR1  
WH-SR2





*Wharfedale*

BRITAIN'S MOST FAMOUS LOUDSPEAKERS

User's Manual

## Important Safety Caution

	<b>CAUTION!</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-REMOVEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL</b>		
<b>ADVERTISSEMENT: RISQUE DE CHOC ELECTRIQUE- NE PAS OUVRIR</b>		



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarised or grounding plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into you outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer - or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been exposed to rain or moisture, does not operate normally, or has been dropped.

**CAUTION:** These serving instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on the apparatus.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

**WARNING:** The mains power switch for this appliance is located on the rear panel. To permit free access to this switch, the apparatus must be located in an open area without any obstruction.



Correct disposal of this products. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

# Introduction

## WH-C Centre Loudspeaker

The Wharfedale WH-C centre speaker is a dedicated centre channel unit designed for mounting preferably above a TV screen (as show is position A) or below a TV screen (as show in postion B). If the unit is mounted on top of the television, move it forward so that the front grilles are level with or slightly in front of the screen. This will reduce reflections from the screen and the top of the cabinet. The loudspeaker should be located on a stable flat surface to avoid any danger of movement when it is vibrated by high sound levels.

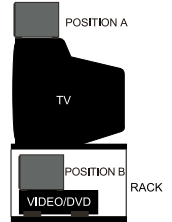
The speaker is supplied with four self-adhesive feet. Apply one to each bottom corner of the unit before mounting.

### CONNECTION

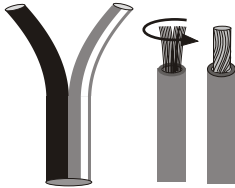
You will need a single length of twin core cable. Connect the red (+) terminal of the centre unit to the red (+) terminal of the amplifiers centre channel output. Connect the black (-) terminal of the centre unit to the corresponding black (-) terminal of the amplifier. The connection panel uses screw terminals - the drawing below illustrates the connection method.

Leaving a stub of 5mm protruding from the wall. Align the hole in the mounting bracket over the screw head and carefully lower the unit onto the screw. The speaker should now be securely attached with the feet against the wall. Now connect the speakers to the amplifier.

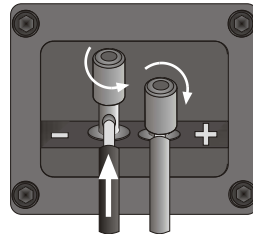
### Centre Speaker Positioning



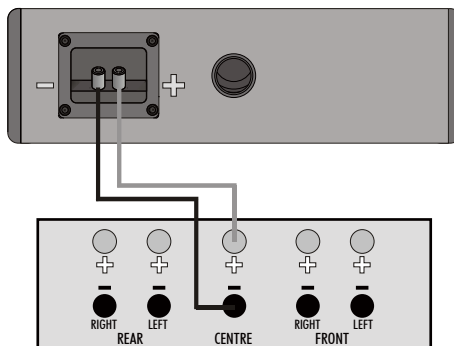
### Preparing Speaker Cables



### Connecting Speaker Cables



### Centre Channel Connections



# USER INSTRUCTIONS: WH2.1 SYSTEM

## WH-SR1 and WH-SR2 Loudspeakers

The Wharfedale WH-SR1 and WH-SR2 are bipolar units designed for wall mounting and intended for use solely as rear effects speakers.

In a Home Theatre System, the directional cues come from the front and centre channels. The rear channels provide ambience and rear perspective and for this purpose a bipolar design with its mix of direct and reflected sounds ideal. To aid this effect we recommend placing the WH-SR1 and WH-SR2 speakers in a high position behind the listener.

### PREPARATION

Each speaker is supplied with four self-adhesive feet. Apply one to each rear corner before mounting.

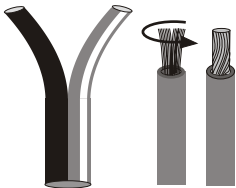
### CONNECTIONS

You will need one length of twin core cable per speaker. Connect the red (+) terminal of the Left rear unit to the red (+) terminal of the amplifiers Left rear channel output. Connect the black (-) terminal of this unit to the corresponding black (-) terminal of the amplifier. Repeat for the Right speaker. The connection panel uses screw terminals - the drawing above illustrates the connection.

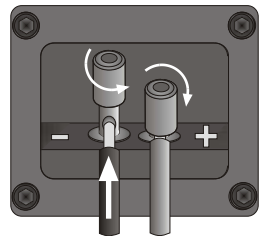
### MOUNTING

Connect the cable to the speaker. Site the speakers about 600 mm above the listening position and 2.5-3.5 metres apart, central to the listener and behind the listening position. Ensure that the wall is sound and can support the product. Fix a suitable screw firmly to the wall.

### Preparing Speaker Cables



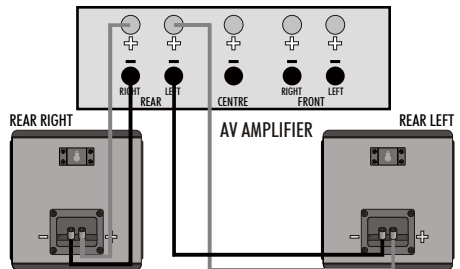
### Connecting Speaker Cables



### Wall-mounting the WH-SR1 and WH-SR2 Loudspeakers

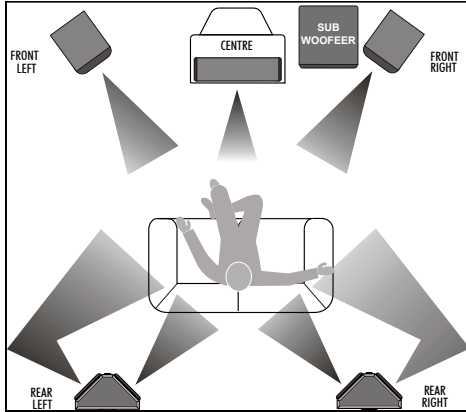


### Rear Channel Connections

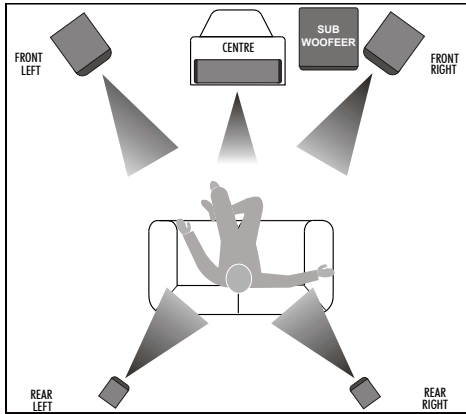


## System Using WH-SR1 and WH-SR2 Surround Speakers

### A Home Theatre System using WH surround speakers



### System using conventional rear speakers



### FRONT AND CENTRE CHANNELS

The front channel loudspeakers should be placed on either side of the television screen, 2 to 3 metres apart, and rotated slightly towards the listeners.

As the centre speaker carries the dialogue effects, it should be placed central to the listening position and close to the TV screen.

Operating height is important. Ideally, the front and centre

channel speakers should be operated at the same height and with the tweeters at ear level to a seated listener.

### REAR CHANNELS

If the rear channels are WH-SR1 or SR2 surround units, mount them as already described. We recommend placing the speakers in a high position, angled towards the listener.

### SUBWOOFER

As the ear is unable to detect the direction from which deep bass originates, this allows freedom in positioning the subwoofer. Varying the distance from the wall will alter the amount of bass. Some prefer to place the subwoofer against a corner of the room. This arrangement gives more bass at the possible expense of clarity.

### LOUDSPEAKER SIZES

Many digital AV processors require you to specify the size of speakers in the various channels. These are usually 'Large' or 'Small'.

Unless your loudspeakers are large floor standing units, you should choose 'Small' for the front channels, as the subwoofer is going to be better at providing clean, deep, and louder bass. Choose 'Small' for the surround channels and also for the centre channel.

Set the subwoofer options on the processor to 'On' or 'Yes'. This will route all the deep bass to the subwoofer.

### SETTING LEVELS

Once the loudspeaker settings have been finalised, put the AV amplifier in to its test mode (see instructions supplied with your processor). Adjust the levels until all channels are reproduced at equal loudness.

**NOTE:** On some programme material the surround channel may seem lower than the front. Do not readjust this level.

You may, however, need to adjust the subwoofer output level. Avoid setting too high a level or you will swamp the sound with bass which may be tiring to listen to and may limit the subwoofer's ability to respond to large bass transients. Set a sensible level going into the subwoofer from the AV processor. The volume control on the subwoofer should be between 12 o'clock and 3 o'clock.

### LFE

The Low Frequency Effects channel was designed as an additional bass channel with its own dedicated subwoofer. In practice however, if all the speakers are set to 'Small', the LFE channel will be combined with the bass from other channels and all this feeds into the subwoofer. When you set the LFE level from your AV processor, use care with this setting as the LFE channel may contain powerful low frequencies which, although normal in a cinema, may overload a domestic subwoofer.

If, during a programme, you hear popping or thumping noises coming from the subwoofer, immediately turn the AV processor volume level down and then back off the LFE level.

## USER INSTRUCTIONS: WH2.1 SYSTEM

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If this does cure the problem, back off the volume level at the subwoofer.

Please read the relevant sections of your AV amplifier manual and familiarise yourself with the various issues. If you are unsure, consult your dealer for help.

### CONNECTING WIRES

When wall mounting a loudspeaker the connecting cables may be unacceptably obvious.

It may be less obtrusive to route cables from the loudspeaker to the ceiling and then within or immediately underneath the ceiling or covering. The cable may then return to floor level at a convenient room corner.

## Service and Warranty

### CARE & MAINTENANCE

If you play the speakers with the grilles off exercise great care. NEVER touch the drive units which can easily be damaged.

The loudspeaker cabinets can be cleaned with a damp cloth or with a spray furniture polish and a soft cloth. Apply the spray sparingly to the cloth and then polish the cabinet. Never apply spray directly to the cabinet.

### GUARANTEE & SERVICE

In the unlikely event that your unit develops a fault you should return it to your Wharfedale dealer using the original packing to ensure safe shipping.

The terms of your guarantee may vary from country to country but in all locations the guarantee excludes:

All damage caused through accident, misuse, wear and tear, neglect, incorrect installation, adjustment or repair by unauthorised personnel.

Liability for damage or loss occurring in transit to or from the purchaser.

Wharfedale will not be liable for any consequential damage, loss or injury, arising from or in conjunction with this equipment.

## Troubleshooting

If your system is not working properly please work through this checklist before returning a unit to your dealer.

Symptom	Possible Cause
No Sound	System not switched on; Speaker cables shorting terminals out; Wrong source selected.
Sound lacks bass content Bass reproduction indistinct	Front loudspeaker out of phase. Check all system connections and rectify. Subwoofer not switched on; Subwoofer phase incorrect; Subwoofer crossover control too low.
Excessive bass distortion at low volumes	Subwoofer level set too high; LFE level set too high; Subwoofer incorrectly wired.
Excessive or distorted bass at high levels	System level set too high; Bass control set too high; Speakers too close to room corners.
Distorted / rattling sound at high levels	System level set too high; Objects on speakers/subwoofer; Objects too close to subwoofer.
Popping or thumping from the subwoofer	System level set high; Subwoofer level set too high; LFE level see too high.
Indistinct sound; Poor localisation of effects. Poor localisation of dialogue	One or more loudspeakers is out of phase. Check all system connections and rectify. (Read the manual for correct connection procedure.)
Television picture colour is distorted	Subwoofer too close to TV. (Switch off system and TV. Move units away. Leave 15 mins. Switch on.)

## Specifications and Service

	<b>WH-SR1</b>	<b>WH-SR2</b>	<b>WH-C</b>
<b>Nominal Impedance</b>	6 Ohms	6 Ohms	6 Ohms
<b>Power Handling</b>	80 W (programme)	120 W (programme)	120 W (programme)
<b>Sensitivity (1W@1m)</b>	85dB	88dB	89dB
<b>Frequency Response</b>	140Hz – 20kHz	80Hz – 20kHz	80Hz – 20kHz
<b>Bass Unit</b>	100mm	100mm x 2	100mm x 2
<b>Treble Unit</b>	28mm Dome	28mm x 2 Dome	28mm Dome
<b>Dimensions Overall HxWxD (mm)</b>	235x221x80	235x262x126	150x390x135

### **AUTHORISED SERVICE CENTRE**

#### **UK:**

IAG Service Centre,  
Unit 4, St Margaret's Way,  
Stukeley Meadows Industrial Estate,  
Huntingdon, Cambs,  
PE29 6EB  
England  
Tel: +44 (0) 1480 45256  
Fax: +44 (0) 480 413403

For information on the authorised service centres worldwide contact Wharfedale International in the UK. A worldwide distributor list is available on the Wharfedale website: [www.wharfedale.co.uk](http://www.wharfedale.co.uk)

Wharfedale has a policy of continuous product development and reserves the right to change specification without notice.

*Wharfedale*

IAG House, Sovereign Court, Ermine Business Park, Huntingdon, Cambs, PE29 6XU, UK  
Tel: +44(0)1480 447700 Fax: +44(0)1480 431767 <http://www.wharfedale.co.uk>  
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