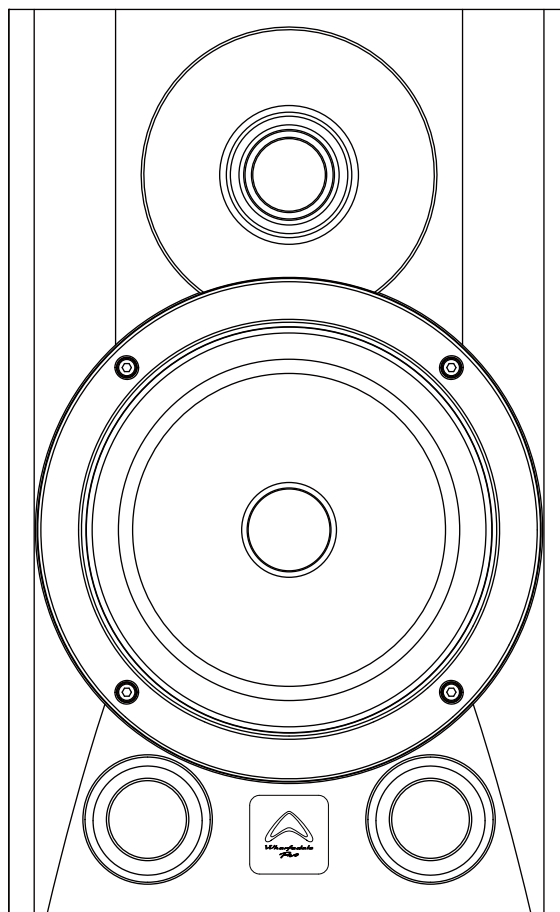
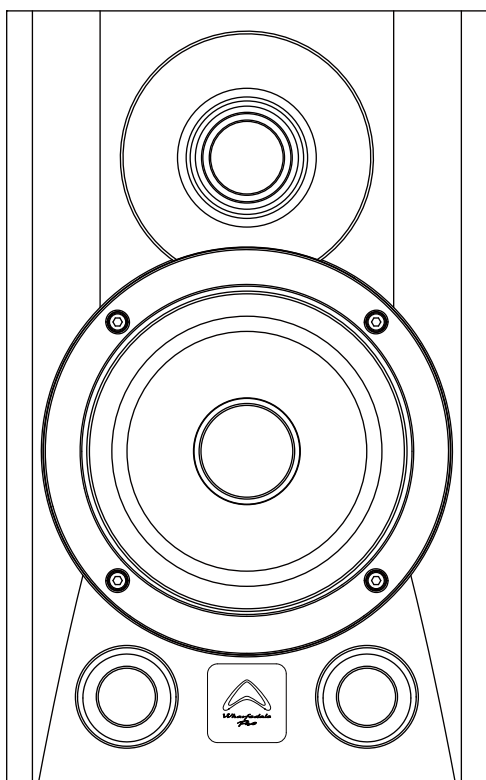




# Diamond Studio 5-BT Diamond Studio 7-BT

Bluetooth Studio Monitor



# **IMPORTANT WARNINGS & SAFETY INSTRUCTIONS**


1. Read these instructions – All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions – The safety and operating instructions should be retained for future reference.
3. Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions – All operating and use instructions should be followed.
5. Do not use this apparatus near water – The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized 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 your outlet, consult an electrician for replacement of the obsolete outlet.
10. 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.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.



13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. 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 spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. CAUTION: These servicing 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.
16. WARNING: To reduce the risk of fire or electric shock, do not expose this 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 apparatus.



17.
  - This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
  - Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
  - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
18.  Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
19. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.;
20. No naked flame sources, such as lighted candles, should be placed on the apparatus.
21. Attention should be drawn to environmental aspects of battery disposal.
22. The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
23. The product is designed to use in moderate climates.



Correct disposal of this product. 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 environmentally safe recycling.

# ***Important Safety Instructions***

Before installing this product read all these instructions!

1. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.
2. Before making any connections, switch all the units in your system off at the mains.
3. Set the volume control at minimum when you switch on your system or change sources and turn the level up gradually.
4. **DO NOT** use your amplifier at full volume.
5. Ensure that all devices in the system are correctly wired.
6. **DO NOT** subject your loudspeakers to excessive cold, heat, humidity, or sunlight.
7. **DO NOT** place heavy objects on top of loudspeakers.
8. **DO NOT** dismantle the loudspeaker. There are no user serviceable parts inside, and you will void the warranty by doing so.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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

## **WHARFEDALE PRO LIMITED WARRANTY**

Wharfedale Pro products are warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

\*Be aware that warranty details may differ from country to country. Contact your dealer or distributor for information. These terms do not infringe your statutory rights.

## ***About the Diamond Studio BT Series***

Home studios are not only for hard work – but they can also be for fun!

Diamond Studio BT monitors are high quality studio monitors, with the sonic detail required for intricate audio work, but they also have a Bluetooth input which allows these professional monitors to also be used in a home entertainment environment.

Diamond Studio BT series bring together craftsmanship, refined detail and wireless technology.

The low frequency driver cone is made of woven fibreglass. This material is extremely rigid and lightweight compared to alternative paper-based cones. Fibreglass cone material delivers superb low frequency dynamic response and, importantly for studio monitoring, a very fast transient response.

A practical feature is the inclusion of a Bluetooth input. This makes it simple to connect using a mobile device for checking mixes or, just for entertainment. It's also possible to pair two Diamond Studio BT models together, wirelessly using the TWS (True Wireless Stereo) system.

Internally, there are 2 discrete amplifiers. This bi-amplification ensures that the amp stage is perfectly matched with the dedicated High Frequency and Low Frequency driver.

With "HF Level" and "LF Level" rear panel controls, the Diamond Studio BT can be tailored to personal taste too.

Diamond Studio BT monitors have been engineered to be accurate. Not to colour or to flatter the overall sound, but to be honest, transparent and to reveal hidden detail.

### **Diamond Studio 5-BT**

- Bluetooth, 6.3 mm, XLR and RCA inputs
- TWS linking (wirelessly pair two Diamond Studio 5-BT's together)
- 5.0" Custom fibreglass cone Wharfedale Pro LF driver
- Bi-amplified with two refined amplifiers
- Independent High and Low frequency level controls
- Honest, uncoloured sound
- 140 Watts Continuous
- 280 Watts Peak

### **Diamond Studio 7-BT**

- Bluetooth, 6.3 mm, XLR and RCA inputs
- TWS linking (wirelessly pair two Diamond Studio 7-BT's together)
- 6.5" Custom fibreglass cone Wharfedale Pro LF driver
- Bi-amplified with two refined amplifiers
- Independent High and Low frequency level controls
- Honest, uncoloured sound
- 150 Watts Continuous
- 300 Watts Peak

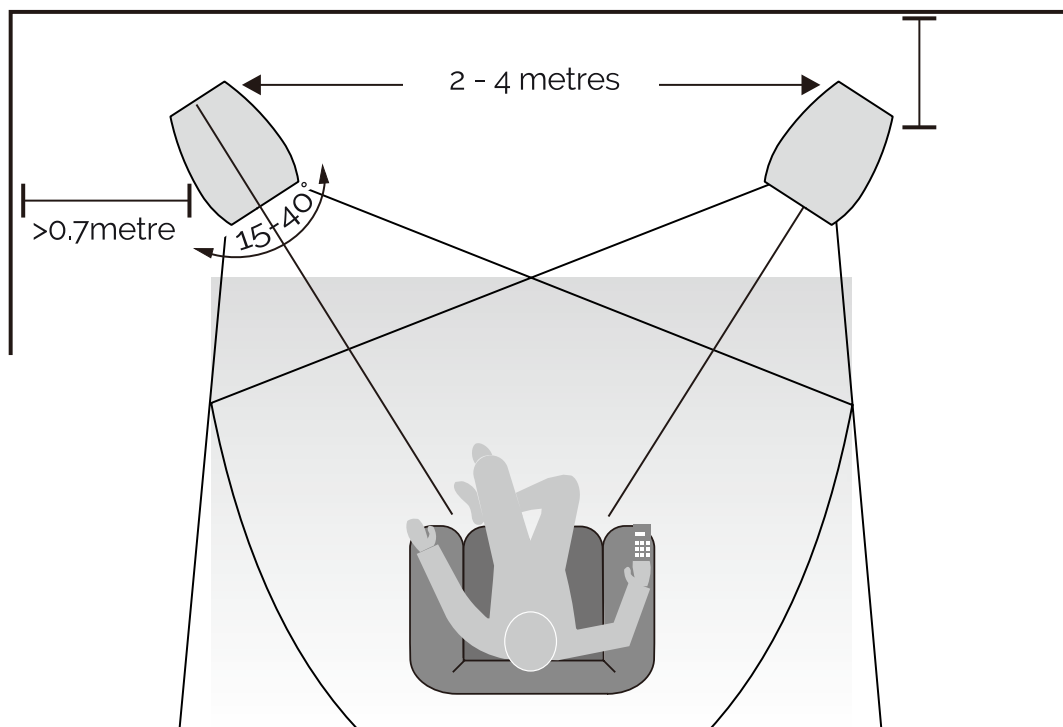
## Monitor positioning

The Diamond Studio BT monitors are a 'bookshelf' design and can be used on monitor stands or on a rigid bookshelf. We suggest that they are positioned at least 200mm from the rear walls and 700mm from the side walls, facing slightly inwards.

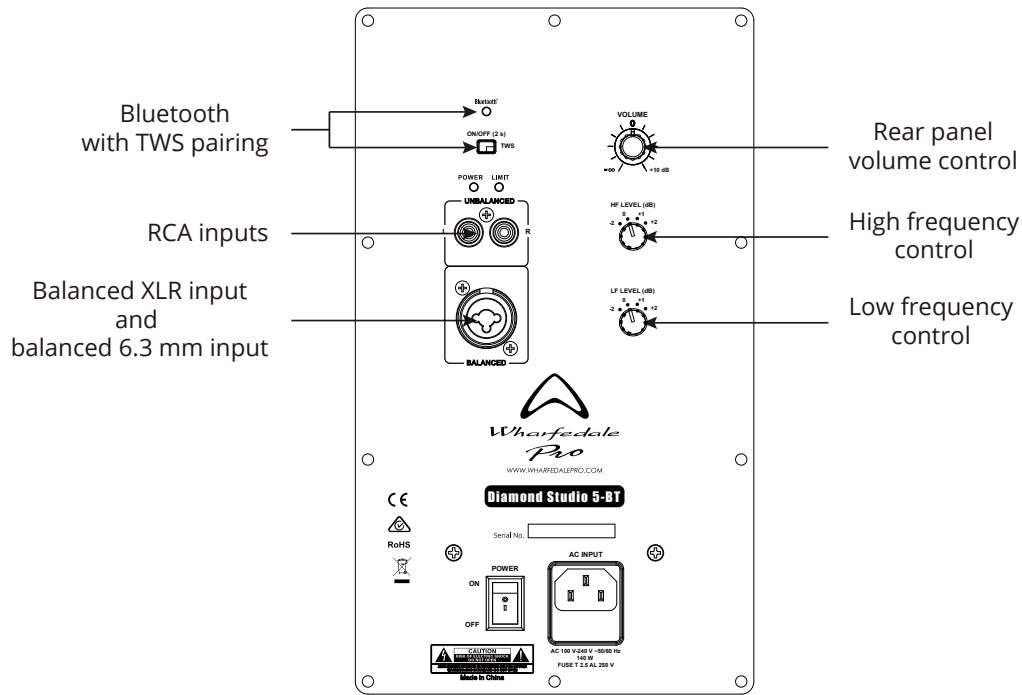
The bass extension will improve if they are positioned closer to the rear wall.

However, if the loudspeakers are placed too close to the walls, the bass will increase but may become boomy and indistinct. If the loudspeakers are placed away from the walls, the inward angle may be increased by up to 40%, although this may restrict the width of the optimum listening position.

A useful rule of thumb is that the listener should be as far from the loudspeakers as they are from each other. The speakers should ideally be positioned so that the treble units are roughly at ear level to the seated listener. As personal taste plays a large role, experiment with different configurations and play a wide range of programme material before finalising the position of your speakers.



# Rear panel inputs and controls



## BLUETOOTH OPERATION - SINGLE SPEAKER USE ONLY.

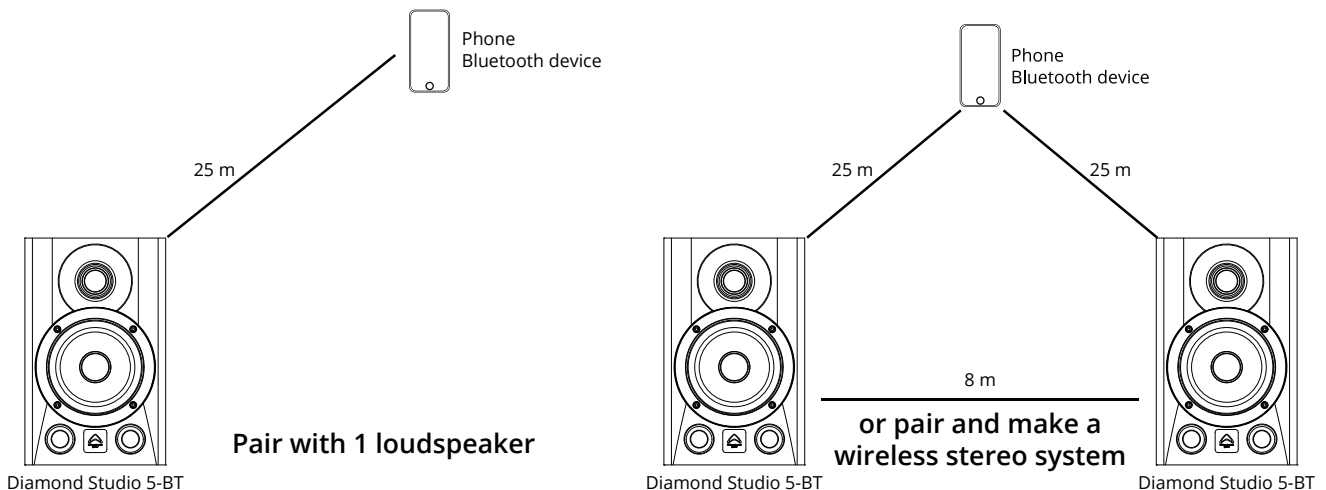
(Always turn volume down on rear to a safe level when making connections)

- 1 - Turn the Diamond Studio -BT on, press and hold the Bluetooth button until the LED turns a flashing Blue.
- 2 - On your mobile device, select Diamond Studio -BT
- 3 - The LED on the rear of the Diamond Studio will stop flashing and will turn solid Blue. Its paired!
- 4 - Play audio from the mobile device ensuring the output volume is appropriately set.

## BLUETOOTH OPERATION - TWS Link mode.

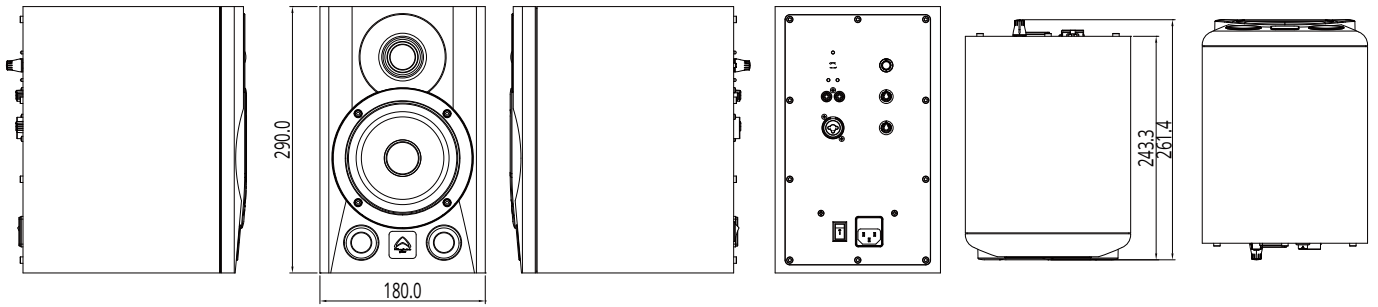
(Always turn volume down on rear to a safe level when making connections. Important : Turn off Bluetooth on your mobile device until TWS linking has been established)

- 1 - Turn the Diamond Studio -BT on. Press and hold the Bluetooth button until the LED turns a flashing Blue. This first monitor will become the LEFT speaker in the stereo pair.
- 2 - Double tap the Bluetooth button (0.7 sec). The LED will flash between RED and BLUE. (It is looking for another Diamond Studio -BT)
- 3 - On the second Diamond Studio -BT monitor, repeat steps 1 and 2 above. The second monitor will become the RIGHT speaker in the stereo pair.
- 4 - When the monitors have paired between themselves, the LEDs will change from flashing RED and BLUE, to be Blue. One monitor will be flashing blue. It's waiting for you to connect....
- 5 - On your mobile device, select Diamond Studio -BT. If pairing is unsuccessful, select the other Diamond Studio -BT in your list of Bluetooth devices.
- 6 - Play audio from the mobile device ensuring the output volume is appropriately set.

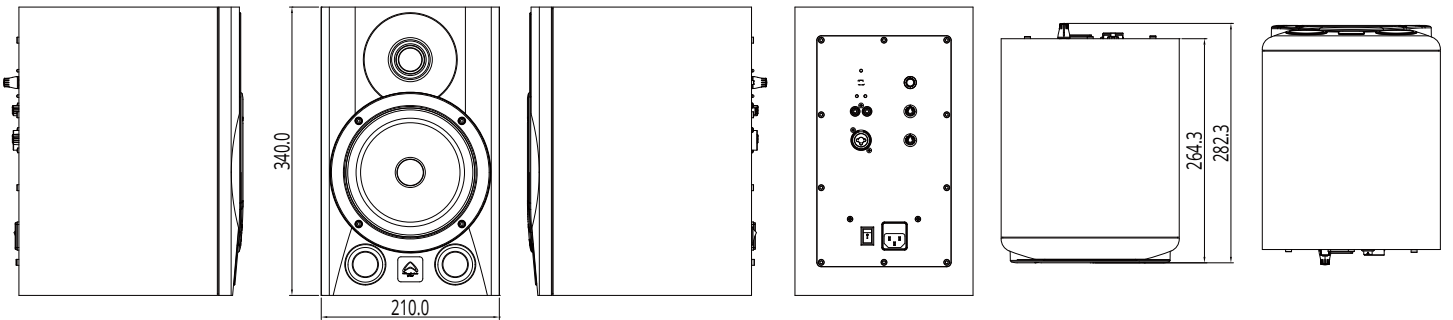


# Dimensional Drawings

Diamond Studio 5-BT

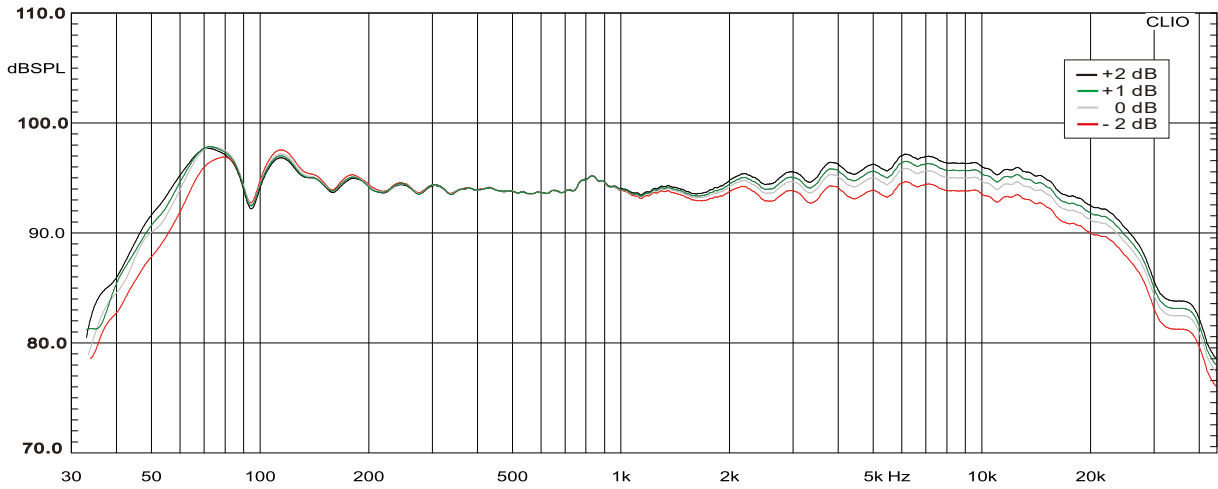


Diamond Studio 7-BT

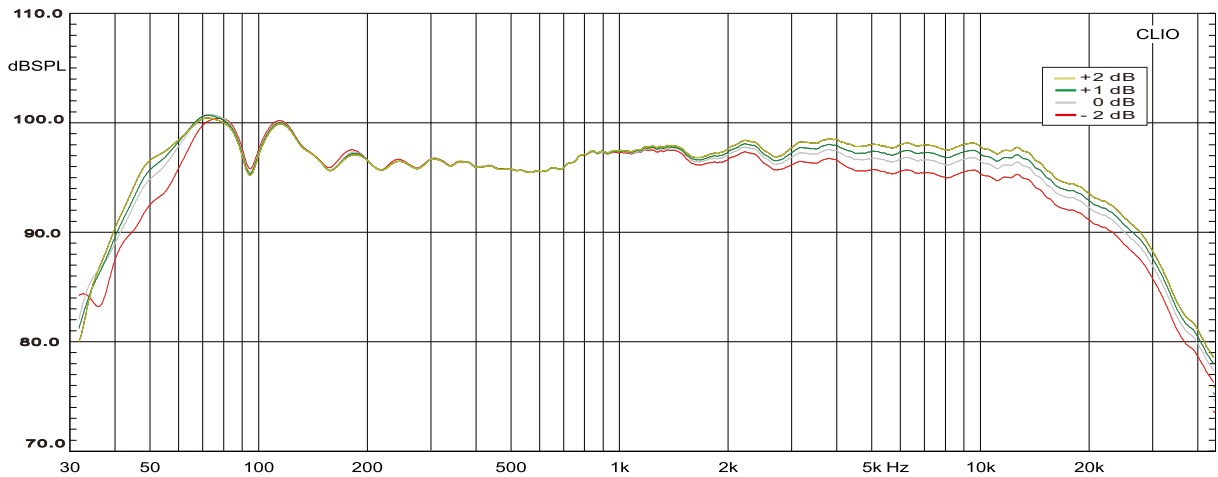


# Frequency Response Graphs

Diamond Studio 5-BT



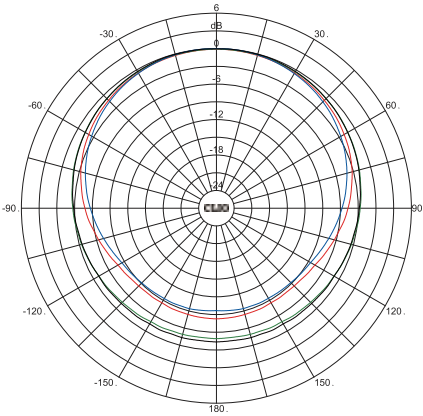
Diamond Studio 7-BT



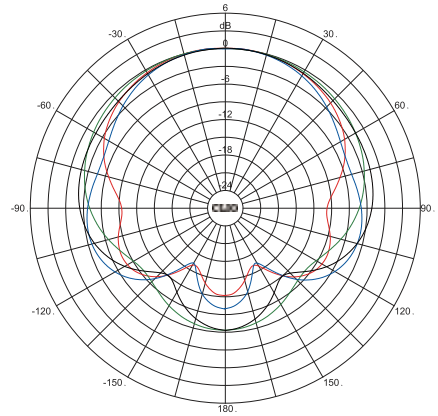


# Diamond 5-BT Polar Plots

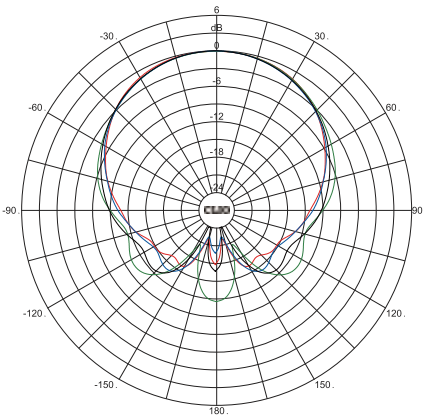
200Hz  
250Hz  
315Hz  
400Hz



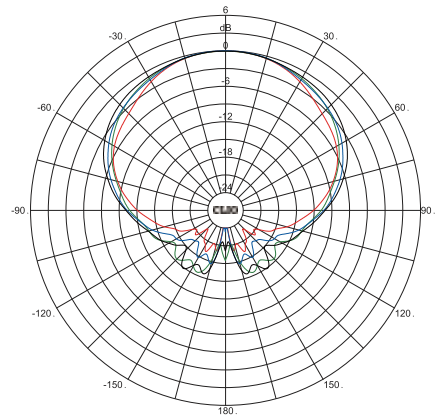
500Hz  
630Hz  
800Hz  
1000Hz



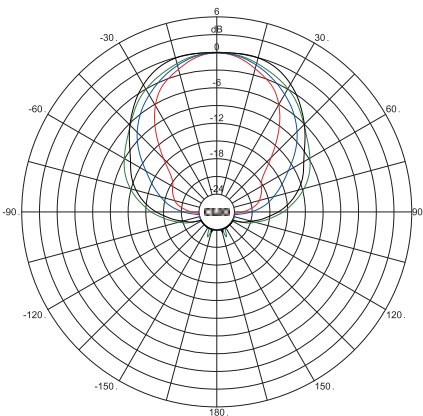
1250Hz  
1600Hz  
2000Hz  
2500Hz



3150Hz  
4000Hz  
5000Hz  
6300Hz

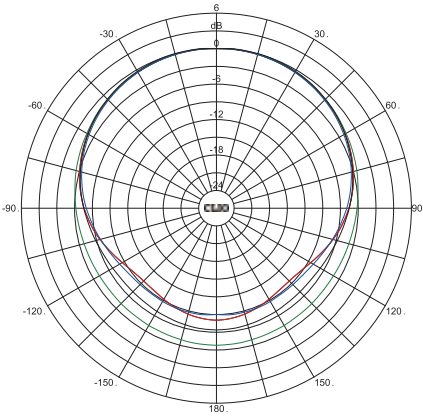


8000Hz  
10000Hz  
12500Hz  
16000Hz

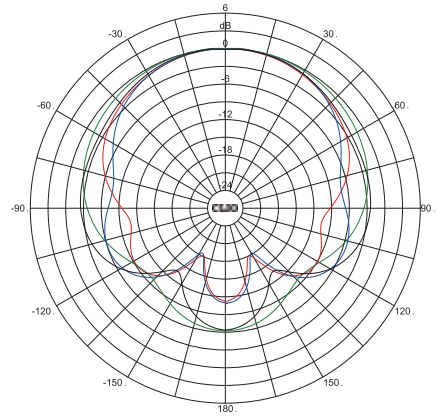


# Diamond 7-BT Polar Plots

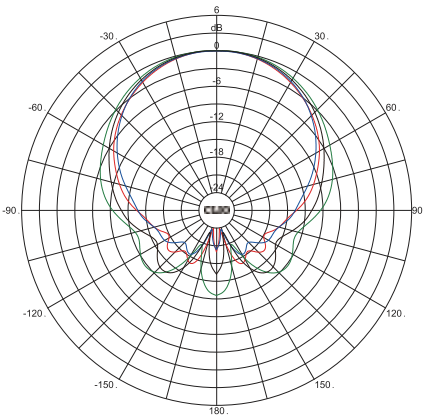
200Hz  
250Hz  
315Hz  
400Hz



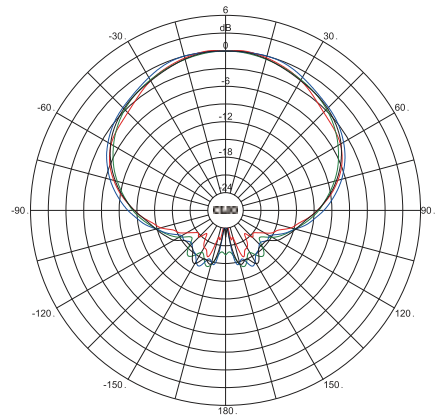
500Hz  
630Hz  
800Hz  
1000Hz



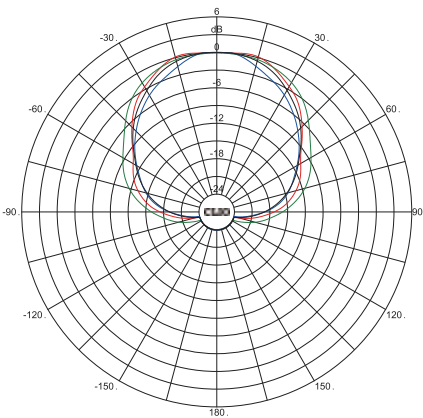
1250Hz  
1600Hz  
2000Hz  
2500Hz



3150Hz  
4000Hz  
5000Hz  
6300Hz



8000Hz  
10000Hz  
12500Hz  
16000Hz



# Specifications

Model Name	Diamond Studio 5-BT	Diamond Studio 7-BT
System Type	Active 5" 2-way Bi-Amplified	Active 6.5" 2-way Bi-Amplified
Freq. Range (-10 dB) Analog Input	45 Hz-25 KHz	38 Hz-25 KHz
Maximum SPL (peak @1 m)	110 dB	113 dB
<b>LF Transducer</b>	5" Fiberglass composite woofer	6.5" Fiberglass composite woofer
<b>HF Transducer</b>	Silk Soft dome tweeter	Silk Soft dome tweeter
Coil Size (mm / inches)	25.4 mm / 1"	25.4 mm / 1"
High Frequency Coverage (H x V)	135° x 110°	135° x 110°
<b>Total Power Amplifiers</b>	<b>140 W</b>	<b>150 W</b>
Low-Frequency Power Amplifier (Class D)	80 W Continuous / 160 W Peak	90 W Continuous / 180 W Peak
High-Frequency Power Amplifier (Class D)	60 W Continuous / 120 W Peak	60 W Continuous / 120 W Peak
Electronic Crossover:		
Crossover Frequency	2.2 KHz	2.2 KHz
<b>Controls</b>		
Equalization (dB)	HF / LF Level Adjust (-2, 0, +1, +2)	HF / LF Level Adjust (-2, 0, +1, +2)
System Volume	-∞ to +10 dB	-∞ to +10 dB
Amplifier Protection	Yes	Yes
Power On Protection	Power switch on / off mute	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Driver, DC and Short Protection	Yes	Yes
Limiter Indicator	Red LED	Red LED
Power Indicator	Green LED / white LED (LOGO)	Green LED / white LED (LOGO)
Input type	Balanced / Unbalanced / Bluetooth	Balanced / Unbalanced / Bluetooth
Input Connectors	TRS JACK / FEMALE XLR / RCA	TRS JACK / FEMALE XLR / RCA
AC Power Options	100 V-240 V	100 V-240 V
Power On Indicator	LED	LED
Cabinet Material	MDF	MDF
Cabinet Colour	black	black
<b>Dimensions (Unpacked):</b>		
Height	290 mm / 11.42"	340 mm / 13.39"
Width	180 mm / 7.1"	210 mm / 8.27"
Depth	240 mm / 9.45"	260 mm / 10.24"
<b>Dimensions (packed):</b>		
Height	350 mm / 13.78"	400 mm / 15.75"
Width	242.5 mm / 9.55"	272 mm / 10.71"
Depth	303 mm / 11.93"	325 mm / 12.80"
<b>Weight</b>		
Net Weight	5.62 kg / 12.4 lbs	6.84 kg / 15.1 lbs
Gross Weight	6.47 kg / 14.2 lbs	7.82 kg / 17.20 lbs



**WHARFEDALE PROFESSIONAL**

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[www.wharfedalepro.com](http://www.wharfedalepro.com)

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