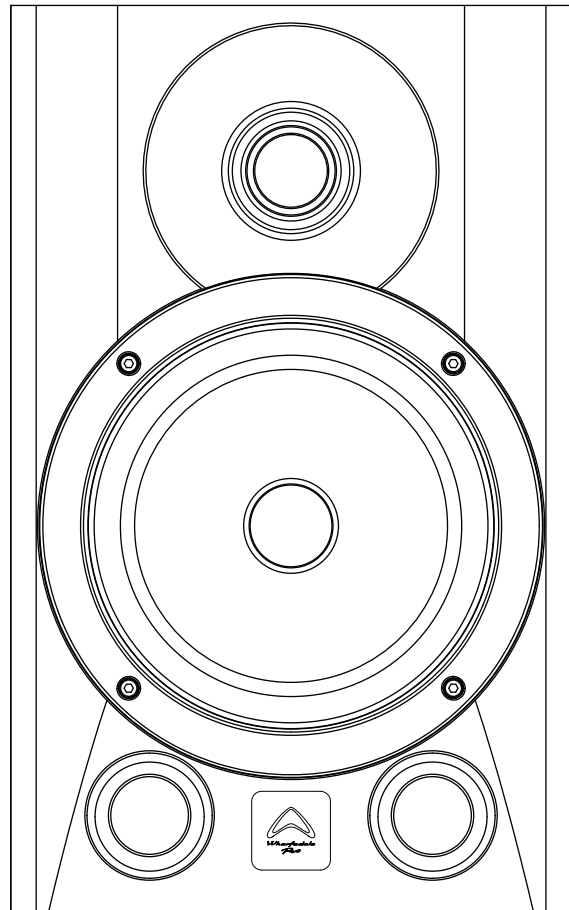
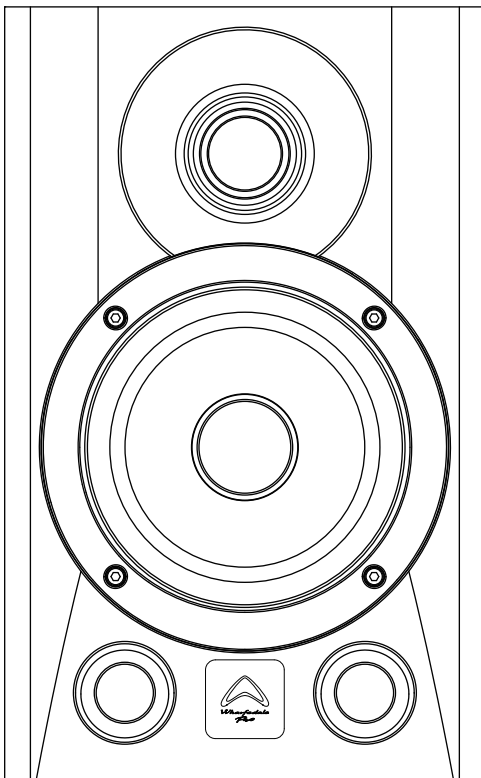




Diamond Studio 5

Diamond Studio 7

ACTIVE MONITOR



IMPORTANT SAFETY INFORMATION

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.

Electronic products :



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.

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, heaters, stoves, or other apparatus [including amplifiers] that produce heat.

Do not defeat the safety purpose of the polarized or grounding-type 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.

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

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

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.

Do not install electronic equipment in a confined or built-in space such as a bookcase or similar unit and keep well ventilated in open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains etc.


WARNING: Only use attachments/accessories specified or provided by the manufacturer [such as the exclusive supply adapter, battery etc).

WARNING: Please refer to the information on the exterior panel of the enclosure for electrical and safety information before installing or operating the apparatus.

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

WARNING: To reduce the risk of fire or electric shock, do not expose this product 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.

WARNING: For the terminals marked with symbol of "⚡" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.

 Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection. The product is designed to use in moderate / tropical climates.

Loudspeakers :

ACCESSORIES – Only use accessories which are designed for professional use or recommended by the manufacturer. If a cart, rack or tripod stand etc is used in conjunction with this product, care must be taken to avoid tip-over or fall risk.

POWER ON WORKFLOW – To avoid damage to drivers and other equipment, it is advisable to establish and follow a workflow for powering up and powering down a sound system. With all system components connected, turn on source equipment (mixers, signal processors, recording and playback units, etc.) BEFORE powering up amplifiers. Transient voltages from powering up source equipment can damage speakers if amplifiers are already turned on. Make sure that amplifier volumes are set to their minimum settings and power up any system amplifiers LAST. It is recommended that all system components be allowed to stabilize for several seconds before any source signals are introduced or level setting adjustments are made. Similarly, when shutting systems down, turn all amplifiers off first, before powering down any other system components.

CABLING - Do not use shielded or microphone cables for connection between amplifiers and speakers. Use only approved speaker cables with proper connectors. Do not defeat any grounding-type (Earthed) plugs on electronic products.

CAUTION - Professional loudspeaker systems can generate very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive volume levels. Permanent hearing damage can result when operated to extreme levels.

RIGGING - SUSPENDING - MOUNTING - Rigging suspending or mounting of speaker systems can expose members of the public to serious health risks and even death.

UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT LOUDSPEAKERS UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE.

Refer all servicing to qualified service 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, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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. Ensure that all devices in the system are correctly wired.
5. **DO NOT** use your equipment at full volume.
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 three years from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Pro dealer or distributor for information.

Please be aware that the warranty details may differ from country to country. Contact your dealer or distributor for information (available at www.wharfedalepro.com).

These terms do not infringe your statutory rights.

About the Diamond Studio Series

Diamond Studio 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.

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.

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 5 and Diamond Studio 7 can be tailored to personal taste too.

Diamond Studio 5

- 6.3 mm, XLR and RCA inputs
- 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

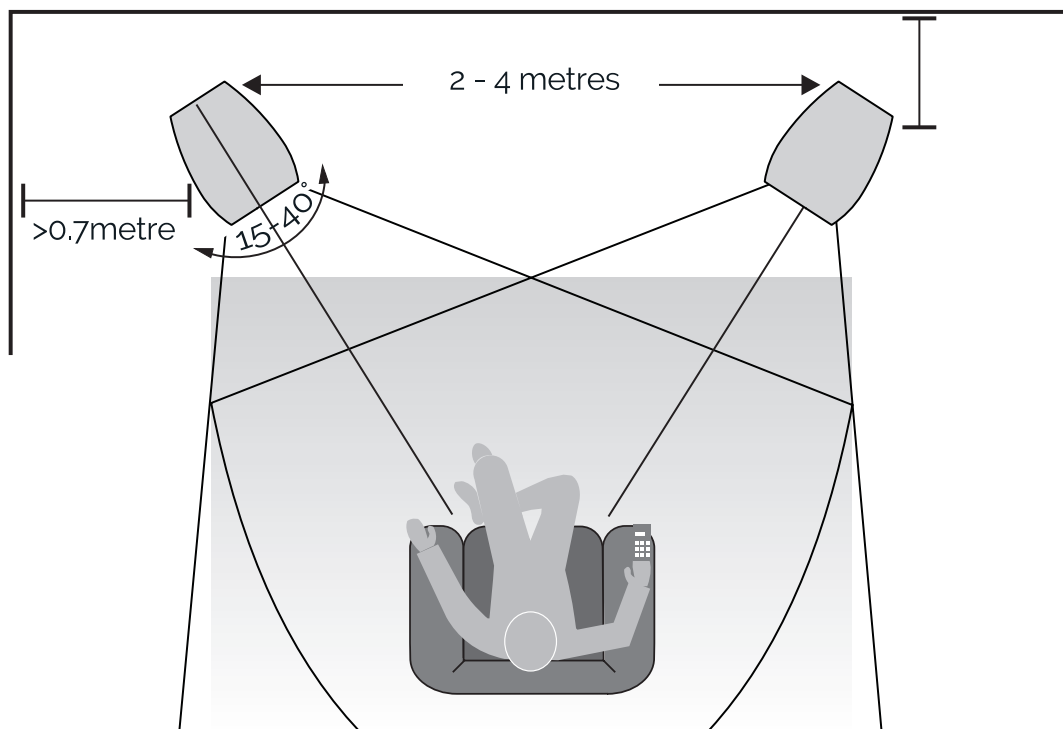
- 6.3 mm, XLR and RCA inputs
- 6.5" Custom fibreglass cone Wharfedale Pro LF driver
- Bi-amplified with two refined amplifiers
- Independent High and Low frequency level controls
- Honest, uncoloured sound
- 150 Watts Continuous
- 300 Watts Peak

Monitor positioning

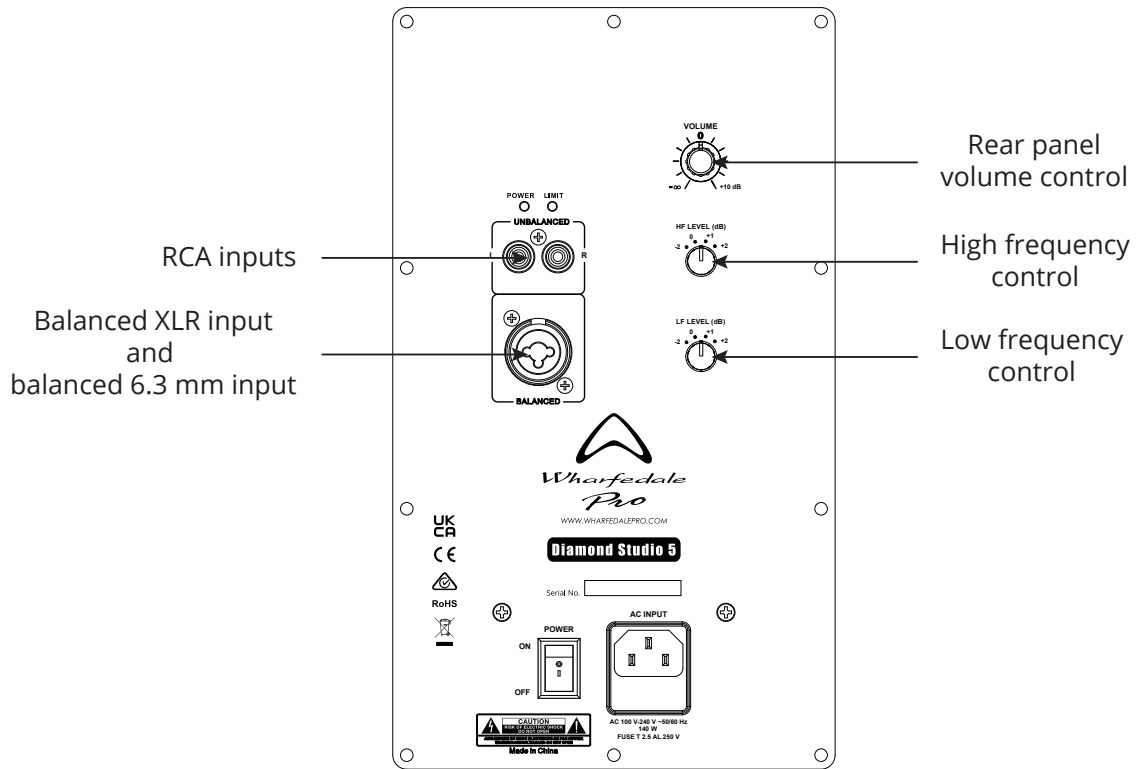
The Diamond Studio monitors are a 'bookshelf' design and can be used on monitor stands or on a rigid bookshelf. We suggest that they are positioned at least 200mm from the rear walls and 700mm from the side walls, facing slightly inwards.

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.

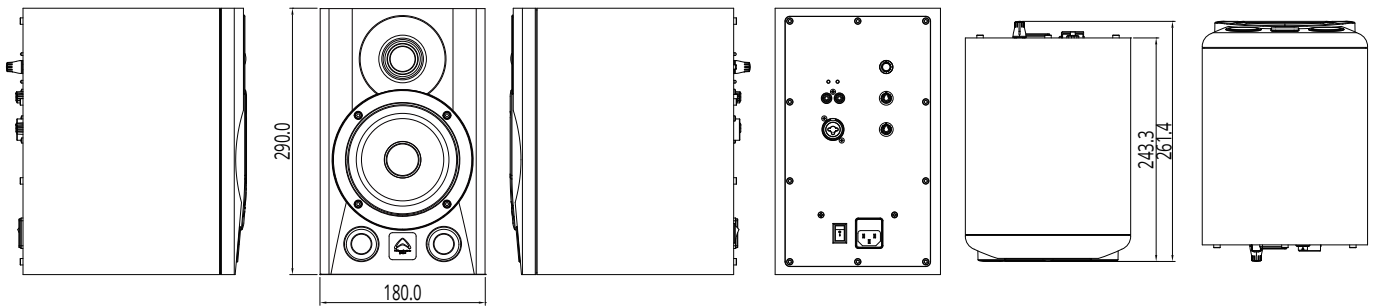


Rear panel inputs and controls



Dimensional Drawings

Diamond Studio 5

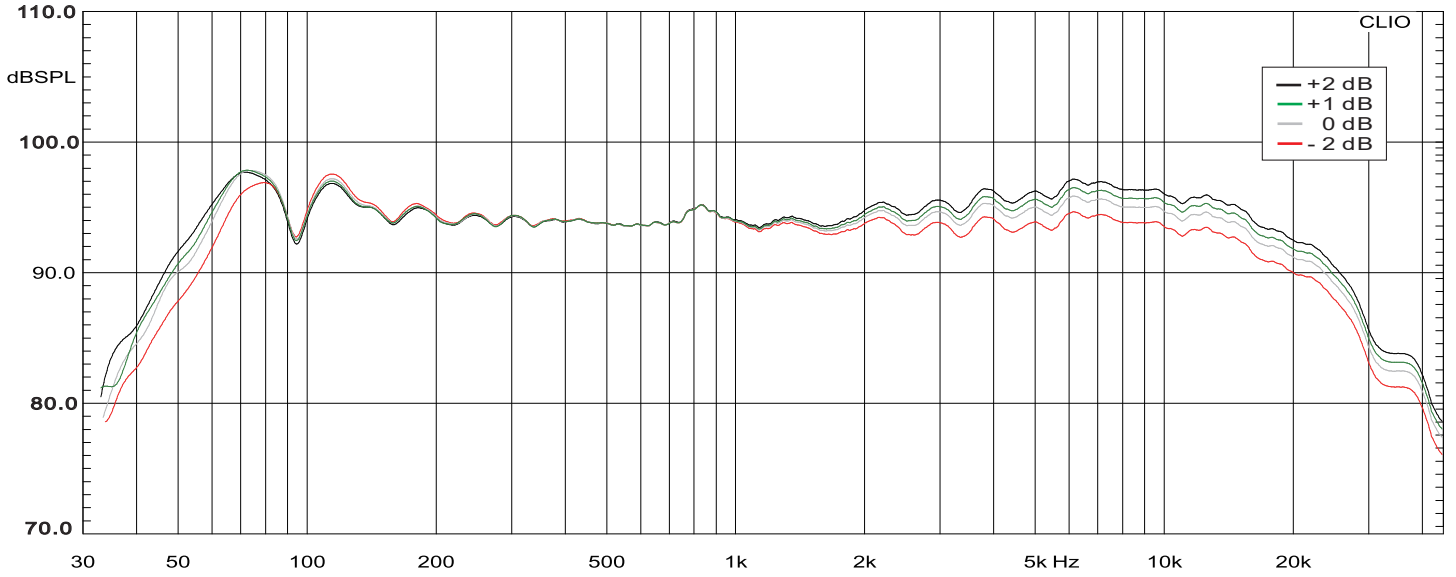


Diamond Studio 7

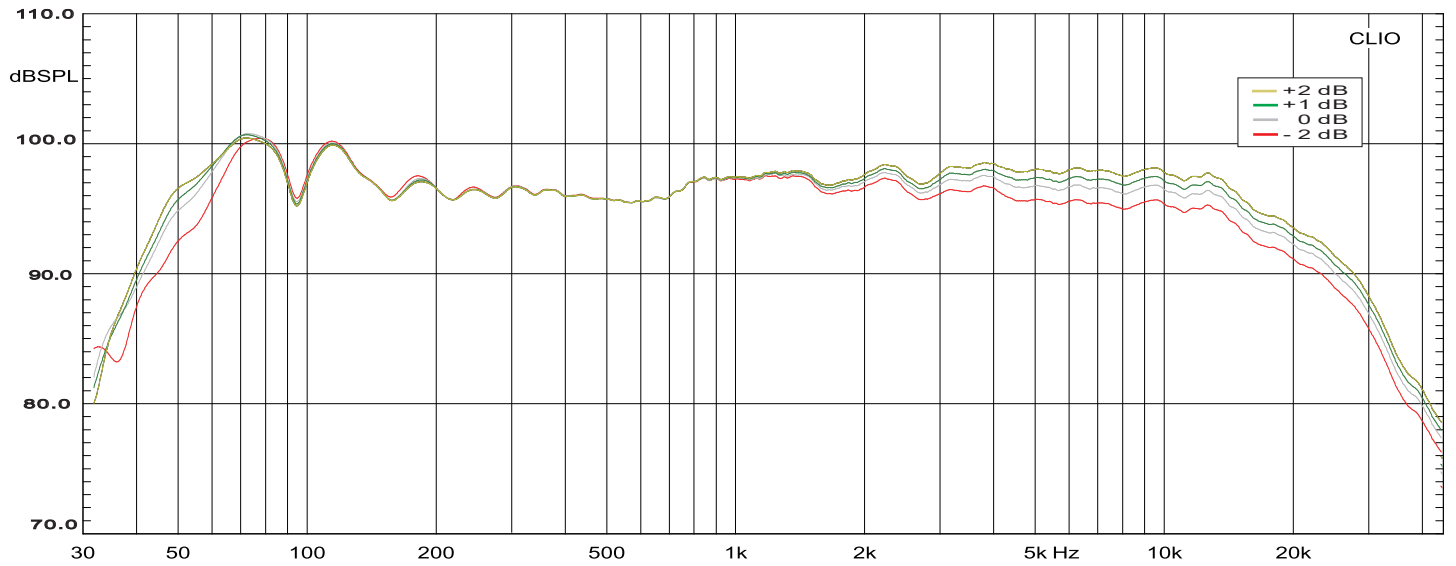


Frequency Response Graphs

Diamond Studio 5



Diamond Studio 7



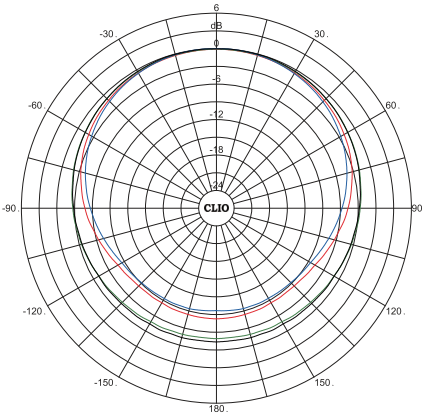
Diamond Studio 5 Polar Plots

200Hz

250Hz

315Hz

400Hz

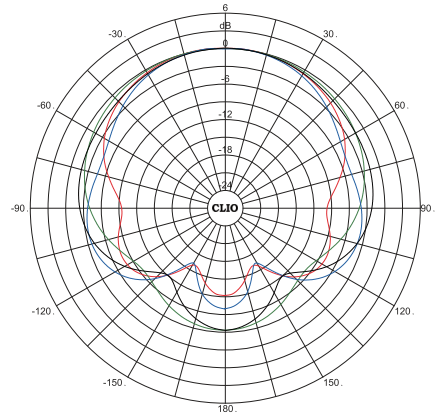


500Hz

630Hz

800Hz

1000Hz

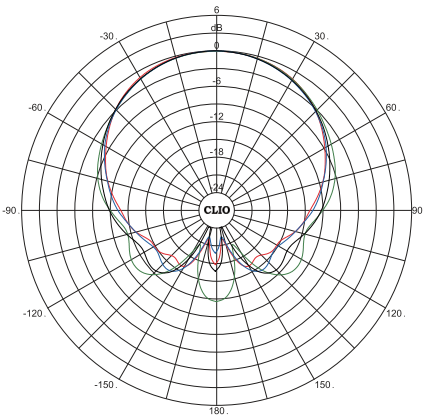


1250Hz

1600Hz

2000Hz

2500Hz

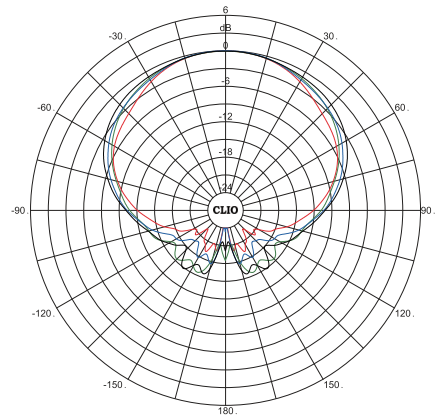


3150Hz

4000Hz

5000Hz

6300Hz

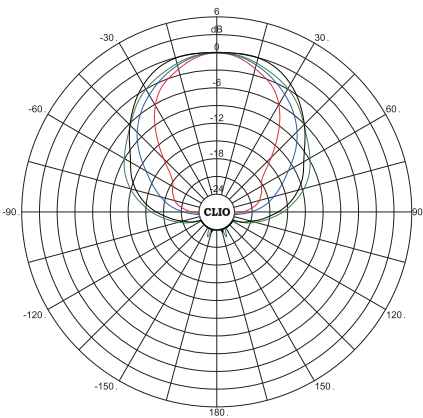


8000Hz

10000Hz

12500Hz

16000Hz



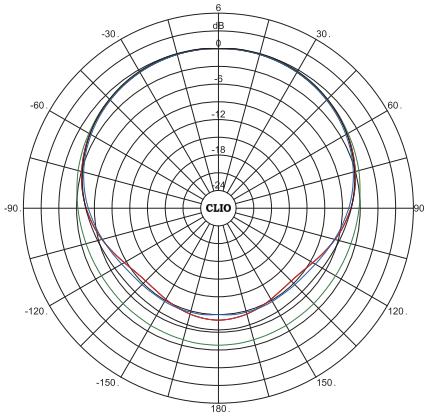
Diamond Studio 7 Polar Plots

200Hz

250Hz

315Hz

400Hz

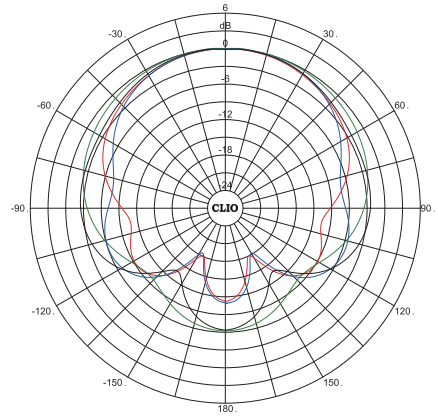


500Hz

630Hz

800Hz

1000Hz

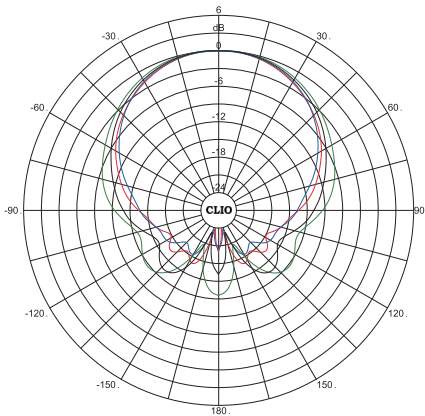


1250Hz

1600Hz

2000Hz

2500Hz

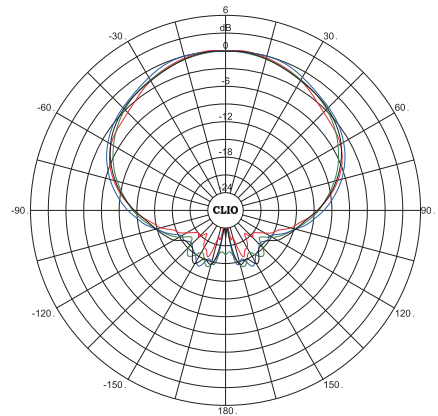


3150Hz

4000Hz

5000Hz

6300Hz

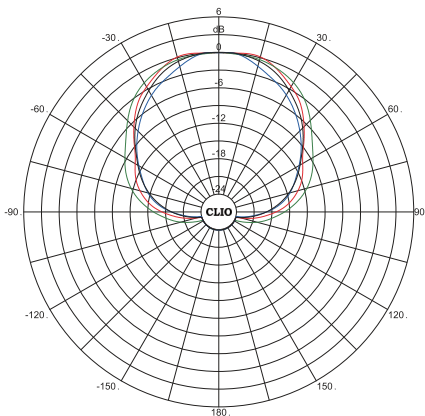


8000Hz

10000Hz

12500Hz

16000Hz



Specifications

Model Name	Diamond Studio 5	Diamond Studio 7
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
LF Transducer	5" Fiberglass composite woofer	6.5" Fiberglass composite woofer
HF Transducer	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°
Total Power Amplifiers	140 W	150 W
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
Controls		
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	Balanced / Unbalanced
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
Dimensions (Unpacked):		
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"
Dimensions (packed):		
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"
Weight		
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

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