

Model

No.

Hand built by

IMPORTANT - Complete your warranty certificate

Warranty Certificate

Please take a few moments to complete the warranty card at the back of this booklet or register at www.pmc-speakers.com (click on 'register a product'). This records the purchase of your loudspeakers and provides you, the customer an opportunity to make suggestions and provide feedback directly to PMC.

Product Support

For product support, accessories or servicing advice, please contact a PMC authorised dealer - See www.pmc-speakers.com.

THE PROFESSIONAL MONITOR COMPANY LIMITED

HOLME COURT, BIGGLESWADE, SG18 9ST, UK T +44 (0) 1767 686300 F +44 (0) 870 4441045 sales@pmc-speakers.com www.pmc-speakers.com

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What drives us

At PMC, we believe that music is what really matters; it's what moves us and gives us the passion for what we do. The company was founded because there wasn't a loudspeaker that was transparent enough to convey all of music's expressive power – and we knew we could remedy this.

One of our core beliefs has always been that the same loudspeaker can be used throughout the entire audio chain, from composer to studio or film stage, through post-production and mastering, right to the listener at home. Discerning listeners all over the world agree. Our designs are involved in every link of the music-making chain, from the recording studio to listening at home, which means we know exactly how to present music as transparently as possible, just as the artist intended. This knowledge, combined with our love for music, drives us to create products that you listen through rather than to. We want you to share the thrill of the original recording because there is nothing like the emotional impact of true musical communication.

Loudspeakers are where science meets art; we understand the science so that you can connect with the art.



Congratulations - You have joined the elite

ESPN

For over twenty-five years PMC has earned an unrivalled reputation for creating the world's finest professional loudspeakers. Simply put, our speakers provide a reference for the world's highest profile productions and events. They are found at every stage of the creative process, from conception to recording and broadcast and, of course, in the home.

UNIVERSAL MUSIC GROUP

BBC

Thomas Newman

Tony Bennett

JVC Studios

Kraftwerk

Royal College of Music

EMI

Our client list reads like a who's who of the sonically aware, with John Newman, Elbow, Stevie Wonder, Coldplay, Brian May, Universal, EMI, Sony, Pinewood Studios, Dreamworks, Deutsche Grammophon and the BBC among the makers of movies and music who use our products.

Warner Music

SONY

Coldplay

Our loudspeakers were also used in the production of Titanic, Spiderman III,

James Bond's Skyfall and Spectre, Finding Nemo, Pirates of the

Caribbean III, and during broadcasts elbow

Pinewood Studios

Capitol Studios

JOHN NEWMAN of the Beijing and London Olympics.

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General usage guidelines

- Read these instructions and keep them in a safe place for future reference.
- 2 Heed all electrical safety warnings, including any on the loudspeakers themselves.
- Do not use the loudspeakers near water.
- 4 The cabinet should only be cleaned with a dry, lint-free, cloth. Do not use solvents, abrasives, waxes or liquids as they may be detrimental to the finish.
- 5 Four soft, cork rubber disks are included with the all "XBD" systems these can be attached to the base of the unit to provide vibration-free operation.
- Floor spikes are sharp; treat with great care during installation and use.
- 7 Do not install near any heat sources such as radiators, ovens or other equipment that produce excessive heat.
- 8 Unplug this product from both source and power during electrical storms, or when unused for extended periods of time.
- Packing material can pose danger to the young and vulnerable. Ensure these items are kept or disposed of safely.
- High volume audio signals, however short their duration, have the potential to cause hearing damage. Use care when setting the system volume level to ensure playback sound pressure levels remain within safe comfortable limits.
- 11 Do not attempt to service the equipment. There are no user serviceable parts inside. Please refer all servicing to PMC authorised personnel.
- 12 Servicing is required when the apparatus is damaged, exposed to moisture, or exhibits a distinct or sudden change of operation or audio performance.
- 13 PMC has made efforts to provide accurate installation information and good quality fixings. PMC will not be held responsible or liable for injuries or property damage direct, indirect or consequential arising out of use or inability to use this product safely and properly.
- Series loudspeakers contain very powerful magnets and therefore may have a detrimental effect if left in close proximity to magnetically sensitive items.
- Do not use the vent as a grip to lift the loudspeaker as this may result in damage.



Advanced Transmission Line

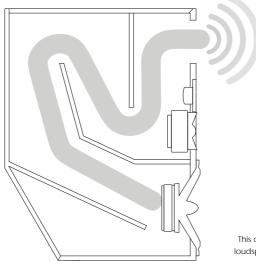
The source of PMC's legendary natural and wholly realistic sound is the Advanced Transmission Line (ATL™) bass-loading technology.

A7L™ is an ingenious design which uses energy generated by the bass unit in a much more intelligent and efficient way than speaker designs based on ported or sealed boxes.

In ATL™ loudspeakers, the highly braced cabinet is lined with a multitude of custom-designed acoustic materials that absorb all but the very lowest frequencies. These are guided to exit from a vent on the front-panel, extending the low-frequency response and creating the impression of a far larger speaker with an extra, ultra-high quality bass unit.

A7L™ improves more than just the bass response: because the low end is clean and clear it doesn't mask the rest of the music. Vocals in particular, are beautifully projected and ultravivid.

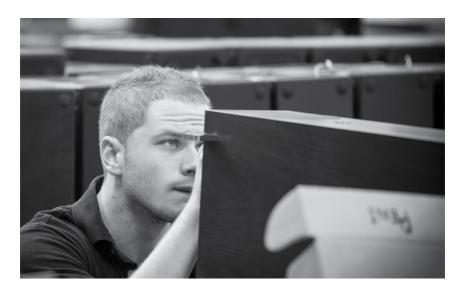
 ATL^{∞} loudspeakers offer another benefit. The ATL^{∞} bass extension does not change with volume level – so even when listening quietly the bass sounds balanced and well defined.



This cross-sectional view of the **BB5** loudspeaker shows the **ATL**™cabinet

Our meticulous attention to detail

All PMC loudspeakers are hand-built in the U.K. using individual components that are matched to our reference model; this includes the structural integrity of every cabinet and the testing and recording of each component. This guarantees it will be within our strict tolerances and ensures your purchase sounds identical to the original design. Each completed loudspeaker then undergoes a set of objective and subjective measurements - frequency response sweeps ensure that the design meets our exacting performance criteria, and then listening tests are conducted against the reference model using a wide variety of material, from a benchmark BBC speech test to classical music, pop and rock.



"Computers don't tell the full story. As well as a full frequency analysis, we listen to each speaker we make and run a benchmark BBC speech and music test on every single one."





Unpacking









Please retain your packaging for future use as all PMC cartons are durable, reusable and can be employed to safely transport your loudspeakers should they be relocated or returned for servicing.

Much of the packing is constructed from recyclable materials, so if you are to dispose of it please do so in an environmentally friendly manner.



Packing materials can pose danger to animals, the young and vulnerable. Ensure these items are kept or disposed of safely.

Resonance-absorbing stand installation

Resonance damping stands are provided with spikes to enhance the performance and stability of these models in the series range.

- 1 Carefully invert the loudspeakers stand so that its base is uppermost. Take care not to damage the top of the stand when it is upside-down; the use of a soft cloth or square of carpet is suggested.
- 2 Screw the proprietary stand spikes into the M8 threaded inserts in the base of the stand.
- 3 Rotate the stand so that spikes are on the floor, you are now ready to place your stands in situe and finish the installation of your loudspeakers.



N.B. Do not over-tighten. Over-tightening the spikes, over tightening of the spikes will result in failure of the mounting inserts.



Caution: The spikes are sharp and should be treated with great care; they may damage hard flooring if in direct contact.

Connections

Plugging them in

Caution



To avoid potential damage, please ensure that your power amplifier(s) or receiver is turned off before connecting or disconnecting your loudspeakers.

Cable & connectors

When selecting cables for use with your Se series loudspeakers, ensure that their construction is of a high enough standard to withstand the rigors of everyday use and that they are suitably terminated. While bare wire can be accommodated by the Se series binding posts, we recommend the use of either spade lugs or 4mm 'banana' plugs in order to maintain an electrical connection of the highest integrity and avoid the possibility of short circuits. Please consult your dealer for more information regarding cable lengths and termination options.



Do not use tools to tighten the binding posts

Polarity + & -

It is of vital importance to observe the polarity markings and maintain positive-to-positive and negative-to-negative connections from amplifier or receiver to the loudspeaker. The series terminals are colour-coded to aid in their identification: positive terminals are red, negative terminals are black.

Running in or breaking in

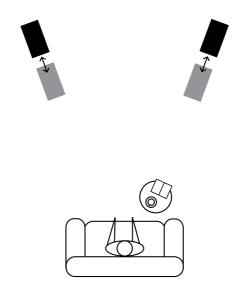


When loudspeakers are new they will take time to reach their full potential. It is often debated whether any solid-state equipment, such as CD players or transistor-based power amplifiers change with use, but the characteristics of mechanical devices such as loudspeakers do alter and improve their performance significantly after a short 'running in' period.

The science is simple; as the soft material surrounding the dome or woofer cone is flexed it will eventually reach a point where it has optimum compliancy allowing the drive unit to move more freely. This translates to greater accuracy and speed of attack in the bass region and the mid and high frequency produces a far more vivid audio picture. This short 'running in' period takes approximately 50 hours of normal use.

50+ hours to run-in

Positioning



With their unique ATL™ Advanced Transmission Line design, wide dispersion, ultra low distortion and smooth bass roll-off, PMC loudspeakers are more forgiving of difficult room conditions and placement constraints than conventional designs so you will be able to achieve a superb sound throughout the room with little effort. We do encourage you to spend some time experimenting in your own room in order to achieve the very best results. Remembering that small changes in location can often influence system performance.

Room shape, size, construction and interior decoration vary immensely and therefore influence sound in different ways. The following guidelines are suggestions for the starting point to locate your new speakers. Fine-tuning of their positioning can start from here.

Positioning

- Place the speaker so the front face is slightly forward of any large object that protrudes into the room – eg. a fireplace, bookcase or television.
- Tip See stereo set up diagram
 - Ensure that stereo pairs of loudspeakers are equidistant from the listening position.
 - It is best to position the front left/right pair (and centre channel loudspeaker if you
 have a surround system) at the same height, usually at ear-level when seated at
 the listening position.
- If any of the speakers are mounted above or below ear level, then angle the speaker towards the listening position.
 - The distance between your left/right speakers and the listening position should
 ideally be equal. As a general rule, the width of the audio picture will be narrow
 if the speakers are too close together. If they are too far apart the picture will be
 wide but there will be less central definition.
- Tip Use a well recorded vocal track to judge the ideal spot.
 - To enhance the audio picture/soundstage and sound balance, the speakers can be angled/toed-in. With the speakers facing straight ahead play a well recorded vocal track. Gradually toe-in both speakers by small increments (max 5° at a time) (see stereo set-up diagram) until the voice is vivid and centrally placed. You can ensure this is best position by going 'one step too far' then returning. Then, use a track with extended high frequencies such as cymbals, check that they sound clear but not overpowering. If they sound too loud or harsh subtly toe the speakers out by very small increments until you achieve the ideal balance; then repeat both listening tests to confirm.
- Tip A simple, well-recorded band with vivid vocals will help to find the best position.

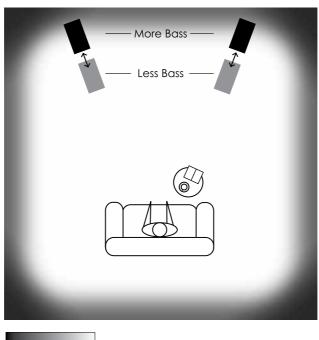
Fine tuning for perfect bass

Bass / LF (Low Frequency adjustment)

Solid boundaries (i.e. walls, ceilings and floors) reflect sound and help to contain it within a room. They make a speaker sound louder the closer they are to them, especially in the low frequency (bass) region.

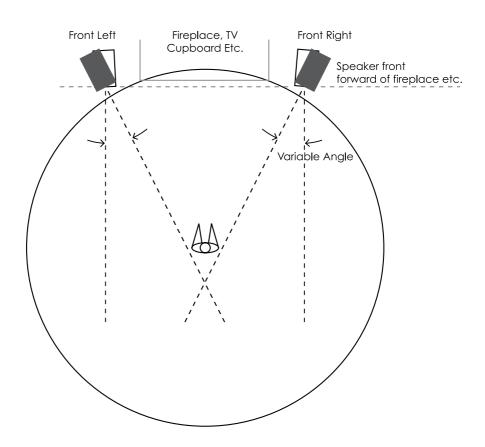
This diagram shows the areas, that if a speaker is positioned, will either increase or decrease bass – The darker the shading the more bass will be heard. Placing the speakers in the corners will generate the most bass, and in the centre of the room, the least bass.

Fine tuning for perfect bass





Stereo set up



Surround sound specific set up

5.1 Systems

The **See** series has been designed for perfect multi channel music or movie playback and the following diagrams display the ideal layout for the speakers.

- No doubt the constraints of room size and shape will vary the distances from the listener to the speakers. Therefore use of the time alignment function of your surround processor will be important.
- The guidance given in the 'Stereo set up' and 'Fine tuning for perfect bass' also apply to the set up of a surround system.

7.1 Systems

In a system capable of full 7.1 Dolby $^{\circ}$ Digital Surround EX $^{\circ}$, DTS $^{\circ}$ ES $^{\circ}$, Blu-ray $^{\circ}$ or HD DVD $^{\circ}$ playback there will be two sets of surround speakers. The first pair should be positioned at 100 $^{\circ}$ and the second set at 150 $^{\circ}$. (The centre is considered 0 $^{\circ}$ while directly to the rear of the room is 180 $^{\circ}$). See Ideal 7.1 surround set up diagram.

Other Immersive Surround Formats

DTS:X[™], Dolby Atmos[™], Auro 3D® – we have models to suit every format. With our vast array of product options it is easy to create a bespoke state-of-theart home cinema to take full advantage of the latest surround sound formats, regardless of the number of channels or placement of the speakers. In addition to the choices from the Se series we produce in-wall and on-wall wafer models and both active and passive subwoofers. See www.pmc-speakers.com for more information.

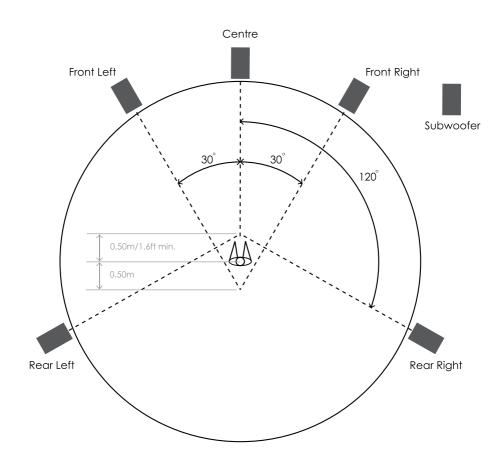
Dolby* Digital Surround EX** and Dolby Atmos are registered trademarks of Dolby* Laboratorie DTS* ES** and DTX:X** are registered trademarks of DTS*, Inc.

Auro 3D* us a registered trademark of Aurio Technologies

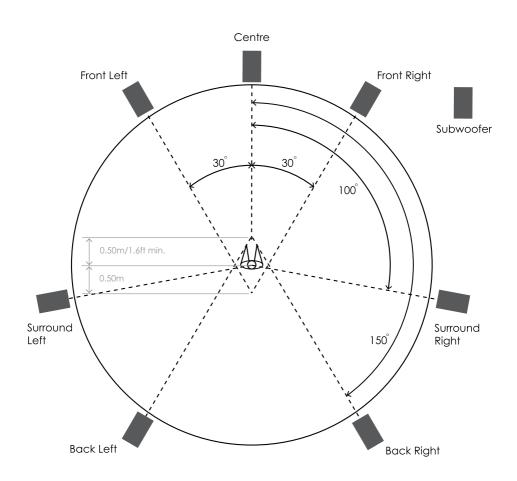
Blu-ray** is a trademark of the Blu-ray** Disc Association

BD DVD** is a trademark of the DVD Format/Logo Licensing Corporation (DVD FLLC)

Ideal 5.1 surround set up



Ideal 7.1 surround sound set up



Service

We are confident your **Solution** loudspeakers will afford many years of trouble-free listening of the highest order. But in the unlikely event that one or more requires repair, our unique manufacturing procedure, wherein the precise value of each component together with the response of the system as a whole is recorded, will ensure that any replaced parts will exactly match the performance of those originally included within each individual loudspeaker.

For any issues that might arise, or for advice and service requirements, the primary point of contact should be your knowledgeable and authorised PMC dealer/distributor.

If you do not have a local representative please see www.pmc-speakers.com and click on 'where to buy'.

Alternatively you can view our FAQ's (Frequently Asked Questions) and servicing section on our website. (Click on the contacts section and select FAQ).



Important Note: Please do not return any products to PMC directly without first contacting our service department.



IB2se 25Hz - 25kHz Freq response Sensitivity 89dB 1W 1m Effective ATL™ 2.4m (8ft) Impedance 4 Ohm LF PMC 10" 250mm Carbon Fibre Nomex™ Piston Drive units MF PMC 75 20 75mm soft dome **HF** PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled 380Hz - 3.8kHz Crossover freq Input connectors Three pairs 4mm binding posts Dimensions H 740mm (29.1") + 50mm Spikes **W** 330mm (12.9") **D** 438mm (17.2") 49kg (108lbs) + 13kg (28.6lbs) Stand Weight MB2 se Freq response 20Hz - 25kHz Sensitivity 90dB 1W 1m Effective ATL™ 3m (10ft) Impedance 8 Ohm **Drive units** LF PMC 12" 310mm Radial™ driver MF PMC 75 Se 75mm soft dome **HF** PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled Crossover freq 380Hz - 3.8kHz Input connectors Three pairs 4mm binding posts **Dimensions** H 870mm (34.2") + 50mm spikes W 380mm (14.9") **D** 535mm (21.1")

58kg (128lbs) + 17kg (37.5lbs) Stand

Weight

Weight

MB2 XBDse Freq response 28Hz - 25kHz Sensitivity 93dB 1W 1m 2 x 3m (10ft) Effective ATL™ Impedance 4 Ohm **Drive units** LF 2 x PMC 12" 310mm Radial™ driver MF PMC 75 80 75mm soft dome **HF** PMC/SEAS[®], 27mm SONOLEX[™] soft dome Ferrofluid cooled Crossover freq 380Hz - 3.8kHz Input connectors Three pairs 4mm binding posts **Dimensions** H 907mm (35.7") + 50mm spikes W 162mm (6.4") **D** 330mm (13.0") Weight 116kg (255.7lbs) BB5 se Freq response 17Hz - 25kHz Sensitivity 92dB 1W 1m Effective ATL™ 4m (13ft) Impedance 4 Ohm LF PMC 15" 380mm Radial™driver **Drive units** MF PMC 75 Se 75mm soft dome **HF** PMC/SEAS[®], 27mm SONOLEX™ soft dome Ferrofluid cooled Crossover freq 380Hz - 3.8kHz Input connectors Three pair 4mm binding posts **Dimensions** H 1040mm (41.0") + 50mm Spikes W 432mm (17.0") **D** 790mm (31.1") \$ 500mm (19.7") Stand Height

87kg (192lbs) + 19kg (42lbs) Stand

MB2-A <i>se</i>	Freq response	20Hz – 25kHz
	Effective ATL	3m (10ft)
	Drive units	LF PMC 12" 310mm Radial™ driver MF PMC 75 € 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled
	Crossover freq	380Hz - 3.8kHz
<u>u - u</u>	Input connectors	Neutrik NL8
	Dimensions	H 907mm (35.7") + 50mm spikes
		W 162mm (6.4")
	Weight	D 330mm (13.0") 116kg (255.7lbs)
BB5-A <i>se</i>	Freq response	17Hz - 25kHz
(a)	Effective ATL [~]	4m (13ft)
.	Effective ATL Drive units	4m (13ft) LF PMC 15″ 380mm Radial™driver
		LF PMC 15" 380mm Radial™driver
		LF PMC 15" 380mm Radial [™] driver MF PMC 75 \$2 75mm soft dome
		LF PMC 15" 380mm Radial™driver MF PMC 75 €€ 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome
	Drive units	LF PMC 15" 380mm Radial™driver MF PMC 75 € 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled
	Drive units Crossover freq	LF PMC 15" 380mm Radial™driver MF PMC 75 €€ 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled 380Hz - 3.8kHz
	Drive units Crossover freq Input connectors	LF PMC 15" 380mm Radial™driver MF PMC 75 €€ 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled 380Hz - 3.8kHz Neutrik NL8,
	Drive units Crossover freq Input connectors	LF PMC 15" 380mm Radial™driver MF PMC 75 €€ 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled 380Hz - 3.8kHz Neutrik NL8, H 1040mm (41.0") + 50mm Spikes
	Drive units Crossover freq Input connectors	LF PMC 15" 380mm Radial™driver MF PMC 75 → 75mm soft dome HF PMC/SEAS®, 27mm SONOLEX™ soft dome Ferrofluid cooled 380Hz - 3.8kHz Neutrik NL8, H 1040mm (41.0") + 50mm Spikes W 432mm (17.0")

MB2 XBD-A se	Freq response	20Hz – 25kHz		
	Effective A⊺L [™]	2 x 3m (10ft)		
	Drive units	LF 2 x PMC 12" 310mm Radial™driver		
		MF PMC 75 Se 75mm soft dome		
		HF PMC/SEAS®, 27mm SONOLEX™ soft dome		
		Ferrofluid cooled		
	Crossover freq	380Hz - 3.8kHz		
	Input connectors	Neutrik NL8, NL4 Cabinet		
	Dimensions	H 1740mm (68.5")		
<u> </u>		W 380mm (14.96")		
		D 535mm (21.0")		
	Weight	116kg (255.7lbs)		
BB5 XBD-A se	Freq response	17Hz - 25kHz		
	Effective AIL	2 x 4m (13ft)		
	Drive units	LF 2 x PMC 15" 380mm Radial™ driver		
		MF PMC 75 Se 75mm soft dome		
		HF PMC/SEAS [®] , 27mm SONOLEX [™] soft dome		
		Ferrofluid cooled		
	Crossover freq	380Hz - 3.8kHz		
	Input connectors	Neutrik NL8, NL4 Cabinet		
	Dimensions	H 2080mm (81.9")		
		W 432mm (17.0")		
 - 		D 790mm (31.0")		
		77011111 (31.0)		

Warranty on-line

SIMPLY ACTIVATE YOUR WARRANTY ON-LINE

GO TO WWW.PMC-SPEAKERS.COM AND CLICK ON REGISTER PRODUCT



If you do not have access to the internet fill in the warranty form found on pages 29 & 30 and post it to us.

WARRANTY CERTIFICATE - PART 1



Please complete and retain this page for your own records

Product
Serial nos
Date of purchase
Dealers name
Dealers address
Town
County
Postcode
Dealers telephone no

Servicing and warranty issues - Please read the following carefully.

Non UK clients: Contact your local dealer/distributor for the details of warranty repairs - see www.pmc-speakers.com and click on 'where to buy' for their details.

UK clients: In the unlikely event of a fault occurring with your The Professional Monitor Company Limited (PMC) product firstly contact your

dealer where the product was purchased.

Do not return a product to PMC without firstly contacting our technical dept. If the product must be returned for service you will be issued.

with a 'Returns Authorisation Number'.

If a product is returned to PMC and subsequently is found to have no fault or a non-warranty fault it will be subject to a minimum of £50.00 plus the carriage for its return.

Proof of purchase is required for any claim covered by this warranty.

Passive products are warranted for a period of 20 years & Active products for a period of 5 years from the date of purchase or upon receipt of 'our copy' overleaf or on-line registration within ten days of purchase or receipt.

The warranty covers defects due to faulty materials or workmanship but does not cover defects arising from accidental damage, misuse or wear and tear. The warranty is void if any attempt has been made by persons not authorised by PMC to dismantle, repair or modify any part of the product.

Products must be returned using original packing material. This warranty does not cover damage in transit.

Note that the cost of the carriage to PMC is not covered by the warranty

Returned products that are defective that are covered by warranty will be repaired or replaced at the discretion of PMC.

PMC has made efforts to provide accurate installation information and good quality fixings. However, PMC will not be held responsible or liable for injuries or property damage

(direct, indirect or consequential) arising out of use or inability to use this product safely and properly.

NOTE: This product contains nuts

Allow minimum of 14 working days for return of warranty repairs.

This warranty does not effect your consumer rights under statutory law. This warranty is only valid in the United Kingdom.

WARRANTY CERTIFICATE - PART 2



Please complete and return this section – or simply complete the on-line registration at www.pmc-speakers.com and click on register product.

Product		
Serial nos		
Date of purchase		
Purchased from		
Your name		
Your email address		
Your address		
Town		
County		
Postcode/7ip code		

Help us improve our products see over



Help us Improve Your comments

_	we should change, whent's comments. Please		t to help us improve:
the customer quot	your new PMC's perforn es section for this produ anonymous; your persor	ct on our site. N	B. Don't worry the
What magazines do	you read?		
HiFi	Pro	Lifes style	Online
HiFi Choice	Future Music	T3	mixonline.com
What HiFi	Sound on Soun	d Stuff	gearslutz.com
Stereophile	Audio Media	GQ	avreview.co.uk
HiFi World	Pro Sound New	s EVO	techradar.com
HiFi Critic	Resolution	FHM	HiFi WigWam.com
HiFi News	Audiofanzine	Shortlist	What HiFi.com
HiFi+	IBE	Maxim	the-ear.net
Gramophone	Tape Op	Esquire	Other
Other) (Other	Other	

We hope you enjoy your latest purchase as much as we enjoyed designing and building them - Thank you.

Inspection certificate

Every component that appears in a PMC product is measured, tested, matched and recorded by hand. This analysis also applies to the final product we build to ensure you receive an identical replica of the reference model.

Crossover matching

Enclosure finish

Assembly & Wiring

Driver installation

Enclosure seal

Level - frequency

Impedance - frequency

Pair matching

Listening test 1

Listening test 2

Final inspection

Accessory pack

User Guide



All the above has been carefully checked by the builder of your \ref{eq} series loudspeakers detailed on the front of this user guide.

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This document should not be construed as a commitment on the part of The Professional Monitor Company Limited (PMC). The information it contains is subject to change without notice. PMC assumes no responsibility for errors that may appear within this document. Information subject to change.

ATL, and Se are trade marks of The Professional Monitor Company Limited.

CE Conformity PMC passive loudspeakers conform to CE Directive LVD 73/23/EEC and EMC 89/336/EEC.
WEEE European directive - PMC is a member of a National Compliance scheme and have gained the associated certification of compliance and the following registration number from the Environment Agency WEEE/GJ0101WU

WEEE EU Directive

This symbol on the product or in/on its packaging indicates that this product must not be disposed of with other household waste. It is the responsibility of the owner to dispose of waste equipment via a designated collection point for the recycling of waste electrical and electronic equipment. The recycling of your waste equipment is an attempt to conserve natural resources and ensures that it is recycled in a manner that protects human health and the environment. For more information about where you dispose of your waste equipment for recycling, please contact your local waste/recycling authority or the dealer from whom you purchased the product.







designed, made & tested in the UK