

The definition of fact - noun - a thing known to be true with complete certainty

fact<sup>®</sup> is a groundbreaking range of loudspeakers that provides just that.

The unadulterated essence of the recording delivered by wholly elegant form.



#### 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. 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.

#### **Company Details**

PMC LIMITED 43-45 CRAWLEY GREEN ROAD LUTON LU2 OAA UK T 0870 4441044 F 0870 4441045 email sales@promonitor.co.uk web www.pmc-speakers.com PMC USA LLC

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This document should not be construed as a commitment on the part of PMC. The information it contains is subject to change without notice. PMC assumes no responsibility for errors that may appear within this document. CE Conformity PMC passive loudspeakers conform to CE Directive LVD 73/23/EEC and EMC 89/336/EEC. WEEE European directive - PMC Limited 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. A message from Peter Thomas arguably the world's smartest loudspeaker designer ... and a truly obsessive audiophile.



Peter Thomas Owner & Chief Designer



Our sole aim while designing loudspeakers was to recreate the true essence of an artist's intention, combining an ultimate level in sonic resolution with solid engineering principles. We believe that the same loudspeaker can be used throughout the entire audio chain - from composer to studio or film stage, and then finally the consumer. Our unswerving passion for getting it right has made this goal possible.

Thank you for choosing PMC products. It is now time for you to read the user guide, press the play button, and realise just how much you've been missing.

#### Congratulations you have joined the elite

Prince

Stevie Wonder

Francis Rossi (Status Quo)

BBC

**Tony Bennett** 

JVC Studios

Tori Amos

Rough Trade

Coldplay

Damien Hirst

Monsters vs. Aliens, Finding Nemo, Pirates of the Caribbean III and during

Our loudspeakers were used in the

production of Titanic, Spiderman III,

t broadcasts of the Beijing Olympics, 2008.

Over two decades, PMC have earned

PMC, the authority for quality sound.

an unrivalled reputation for creating the

world's finest professional loudspeakers. Simply put, our loudspeakers provide a

reference for the world's highest profile

productions and events. They are found

at every stage of the creative process,

broadcast, and of course in, the home.

Our client list reads like a who's who of

Stevie Wonder, Coldplay, Robbie Williams, Brian May, Universal, Sony, Dreamworks,

Deutsche Grammophon and the BBC

among the makers of movies and music.

the sonically aware with Prince,

from conception to recording and

UNIVERSAL MUSIC GROUP

**Robbie Williams** 

Royal College of Music

Brian May

### Kraftwerk

Warner Music

#### Underworld

Emil Berliner/Deutsche Grammophone



Siemens

The combination of accumulated technical knowledge and the experience gained from being close to the creators of music has been distilled into the **fact**<sup>\*</sup> range - you will hear it exactly as the artist intended with all the passion and emotion of the performance.



### fact<sup>®</sup> user guide

### General usage guidelines

	Contents	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.
	9 General usage guidelines	3 Do not use the loudspeakers near water.
	10 PMC's <b>ATL</b> <sup>™</sup> approach	We have provided a high quality Microfiber cloth for cleaning. This is ideal as the cabinet
	11 Technically speaking	should only be cleaned with a dry, lint-free, cloth. Do not use solvents, abrasives, waxes
	12 Our attention to detail	or liquids as they may be detrimental to the finish.
	13 Unpacking	5 Floor spikes are sharp and should be treated with great care during installation and use.
	14 Spike Installation guide	b Do not install near any heat sources such as radiators, ovens or other equipment that produce excessive heat.
	15 Connections	7 Unplug this product from both source and power during electrical storms or when unused
	16 Connecting to amplifier	for extended periods of time.
	17 Running In	8 Packing material can pose danger to the young and vulnerable.
	18 Position	Ensure these items are kept or disposed of safely.
	20 Stereo set-up	9 High volume audio signals, however short their duration, have the potential to cause
	21) Surround sound specific set up	hearing damage. Use care when setting the system volume level to ensure playback
	22 Ideal 5.1 surround set up	sound pressure levels remain within safe comfortable limits.
	23 Ideal 7.1 surround sound set up	Do not attempt to service the equipment. There are no user serviceable parts inside. Please refer all servicing to PMC authorised personnel.
	24 Fine tuning for perfect sound	11 Servicing is required when the apparatus is damaged, exposed to moisture,
	27 Service	or exhibits a distinct or sudden change of operation or audio performance.
	28 Specifications	12 PMC has made efforts to provide accurate installation information and good quality
(	29 Warranty on-line	fixings. PMC LTD/PMC USA LLC 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
	30 Warranty certificate - Part 1 - Your copy	product safely and properly.
	3) Warranty certificate - Part 2 - Our copy	13 fact loudspeakers contain very powerful magnets and therefore may have
	32 Help us improve - Your Comments	a detrimental effect if left in close proximity to magnetically sensitive items such as;
	33 Inspection certificate	CRT (tube style) televisions or monitors and media such as floppy discs, cassettes and videotapes.

### 

### Basically speaking

The world's leading professionals rely on the accuracy of PMC's designs everyday to create much of the music and sound you hear. You can rest assured that what you hear from a PMC speaker is identical to the version approved by the artist themselves.

#### What they offer above a standard HiFi speaker

**Detail** - They are extremely detailed and sound natural -

As if the musicians are with you in the room

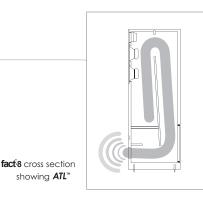
**Room filling** - The sound they produce covers a massive area, so wherever you sit you still hear everything

Full, rich sound at any volume - You can listen at low level

and still hear bass - Ideal for low level or late night listening

**Reliability** - all the components are tried and tested in the professional world

10



Ease of drive - They are efficient and therefore can be driven by the vast majority of good quality amplifiers

Ideal for surround - They all have an identical tonal balance and can be mixed and matched to create the ultimate surround sound system

Easy to position - They sound superb in a vast array of rooms, large and small

Feel good - They are made in England by hand, by nice people who care, and love audio

Boast - You have joined the long list of world famous music makers and recording studios using PMC's **ATL™** technology -See www.pmc-speakers.com and click on key clients

### Technically speaking

PMC's **ATL**<sup>\*\*</sup> (Advanced Transmission Line) enclosures have taken loudspeaker design to the highest level.

A PMC transmission line design utilises \_\_\_\_\_\_ sophisticated cabinet construction, propriety drive units and patented absorption materials and techniques.

The benefits are enormous compared to the relatively simple sealed and ported models currently available elsewhere.

The bass driver is placed at one end of a long tunnel (the transmission line), which is heavily damped with absorbent acoustic material. This material is specified to absorb the upper bass and higher frequencies that radiate from the rear of the bass driver. The lowest frequencies, which remain in phase, then emerge from the large vent at the end of the line, which essentially acts as a second driver. One advantage to this approach is that the air pressure loading the main driver is maintained, thus controlling the driver over a wide frequency range, which in turn significantly reduces distortion. A spin-off from the lack of distortion is that the upper bass and midrange detail is not masked by harmonic distortion residing in the very low frequencies. The result is PMC's characteristic transparent midrange and fast, attacking bass notes, all reproduced with outstanding clarity.

A further advantage of the transmission line approach is a cabinet that produces a higher volume and greater bass extension than a ported or sealed design of a similar size, even if identical drivers were used. Moreover, as the loading on the main driver is maintained at all volumes, the frequency response also remains consistent regardless of listening level.

Casual late night listening or analytical studio sessions can be conducted without the need for high volumes to achieve maximum bass response. A characteristic that is especially suited to both the home enthusiast and recording professional alike.

'No other technology provides such a huge, rich room filling sound'

### Our meticulous care & attention

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.









### 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.

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.



### Spike installation guide



Spikes are used to enhance performance and allow the loudspeaker to be levelled perfectly. **fact** spikes are reversible, with spike or ball tips for use on either carpeted or more sensitive hard flooring.

Note: If you require additional protection when using the ball ended tips on hard flooring then use the handy protection caps.included.

- Carefully invert the loudspeaker so that its base is uppermost. Take care not to damage the top of the loudspeaker when it is upsidedown, the use of a soft cloth or square of carpet is suggested.
- 1 Thread each spike with one of the supplied knurled collars.
- 2 Select the type of tip you wish to use. Generally spikes are used for carpeted floors and ball ends for hard floors
- 3 The spikes can then be inserted into the threaded hole.

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

- 4 Re-invert the loudspeaker
- Once in position, level the loudspeaker by adjusting each spike in turn using the spirit level on the top of the cabinet to confirm. While this might seem a time-consuming exercise, it is important both in terms of system performance and the stability of the loudspeaker.



The final step is to tighten each knurled collar; this will ensure that the spike and loudspeaker are as rigid as possible.

### Connections



#### Caution

To avoid potential damage, please ensure that your power amplifier(s) or receiver is turned off before making or breaking any loudspeaker connections.

#### Cable & connectors

When selecting cables for use with your **fact** 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 **fact** Ag 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.

#### 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 **fact** Ag terminals are colour-coded to aid in their identification, positive terminals are red, negative terminals are black.

# Plugging them in

### Connecting to amplifier

#### Standard / Single wiring connection

This is the most common using a single cable with two conductors. Connect using any of the two pairs of RED+/BLACK- terminals. Ensuring the **fact Ag** silver linking bars are secure and the binding posts are finger tight.

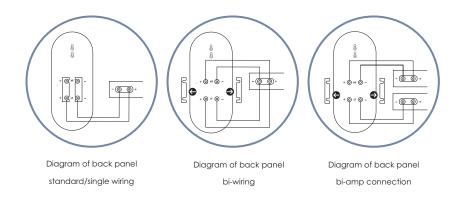
#### Advanced connection / Bi-wiring & Bi-amping

fact models with four binding posts can be bi-wired or bi-amped.

By loosening all four rear binding posts, the silver bridging plates can be removed thus enabling separate signals to be fed to the low (Woofer) and high frequency (Tweeter) drivers. Ensure the binding posts are re-tightened after the bridging bars are removed. Both bi-wiring and bi-amping require the use of two lengths of cable per speaker. Bi-amping requires two separate amplifiers; one for each driver. Please consult your dealer regarding the benefits and the correct procedure.

#### **Terminal identification**

Top pair of terminals - HF / High Frequency / Tweeter Bottom pair of terminals – LF / Bass Frequency / Woofer



### Running in or breaking in

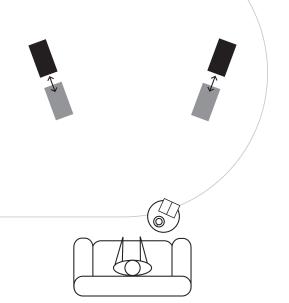


When loudspeakers are new they will take time to reach their full potential. It is often debated whether any solid-state equipment, such as CD players or transistor-based power amplifiers change with use, but the characteristics of mechanical devices such as loudspeakers do alter and improve their performance 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 15 hours of normal use.

## 15+ hours to run-in

### Positioning

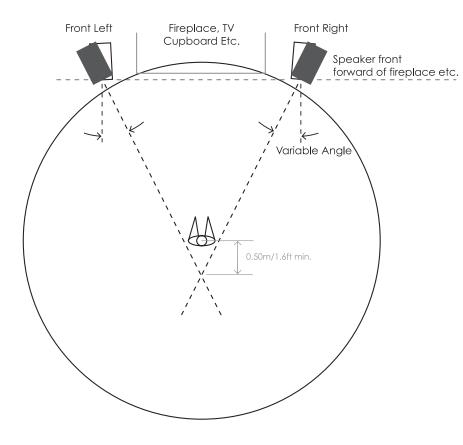


With their unique **ATL**<sup>™</sup> Advanced Transmission Line design, wide dispersion, ultra low distortion and smooth bass roll-off, PMC loudspeakers are more forgiving of difficult room conditions and placement constraints than conventional designs you will be able to achieve a superb sound throughout 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.

- Place the speaker so the front face is slightly forward of any large object that protrudes into the room this could be a fireplace, bookcase or television for example.
- Tip See stereo set up diagram
- Ensure that stereo pairs of loudspeakers are equidistant from the listening position.
- Tip Some arrival time differences can be accommodated within modern home theatre receivers and processors (see the instruction manuals provided with such equipment for more on time alignment).
  - 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.
- Tip If any of the speakers are mounted above or below, then angle the speaker towards the listening position.
  - The distance between your left/right speakers and the listening position should ideally create an equilateral triangle. 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 further enhance the audio picture or soundstage the speakers can be angled/toed-in'. Start with the speakers angled so they will cross approximately 50cm (2ft) behind the listening position. (See stereo set-up diagram) Varying this angle will also subtly affect the vividness of the audio picture, so again experiment.
- Tip A simple well recorded band with vivid vocals will help to achieve the best position

### Stereo set up



### Surround sound specific set up

#### 5.1 Systems

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

- Tip 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.

#### Note

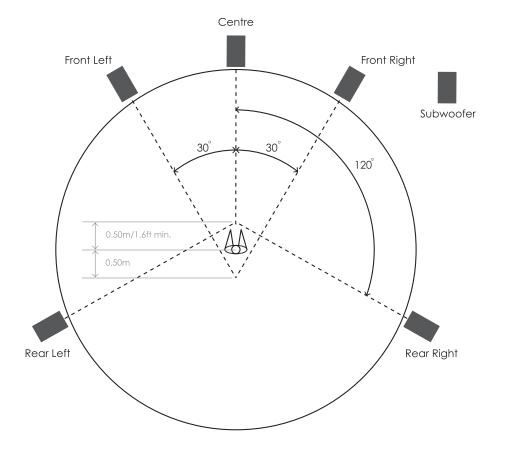
#### 7.1 Systems

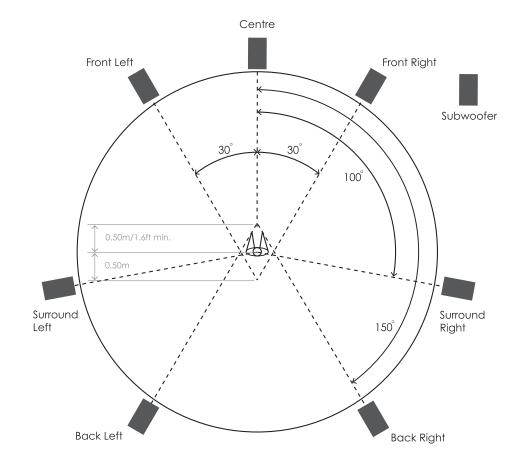
In a system capable of full 7.1 Dolby<sup>®</sup> Digital Surround EX<sup>™</sup>, DTS<sup>®</sup> ES<sup>™</sup>, Blu-ray<sup>™</sup> or HD DVD<sup>™</sup> playback there will be two sets of surround speakers. The first pair should be positioned at 100° and the second set at 150°. (The centre is considered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

Dolby® Digital Surround EX<sup>™</sup> is a registered trademark of Dolby® Laboratories DTS<sup>®</sup> ES<sup>™</sup> are registered trademark of DTS<sup>®</sup>, Inc Blu-ray<sup>™</sup> is a trademark of the Blu-ray<sup>™</sup> Disc Association HD DVD<sup>™</sup> is a trademark of the DVD Format/Lago Licensing Corporation (DVD FLLC)

### Ideal 5.1 surround set up

### Ideal 7.1 surround sound set up





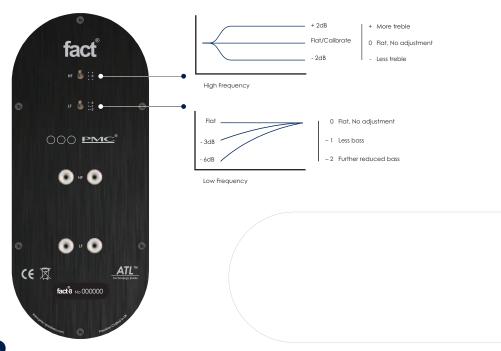
### Fine tuning for perfect sound

#### Take control

One of the most common questions asked by clients; will these loudspeakers integrate well in my room?

With fact the answer will always be yes.

With **fact** the problems of combining the various sound signatures of electronics, cables and above all room acoustics are now resolved. Our design team have engineered an elegant and effective solution to this previous insurmountable issue. Set within the solid, brushed anodised rear panel are audiophile grade switching that allow the tailoring of the loudspeaker's bass and high frequency response. This fine-tuning will ensure the perfect sound balancein any room and with any source combination.



### Fine tuning for perfect sound

Ensure both HF & LF adjustment switches are in the zero position on the rear panel of both loudspeakers (See **fact** back panel diag.)

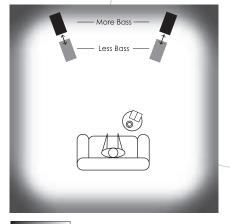
TIP If your amplifier has tone controls set them in the flat/zero position, or if your amplifier features a defeat/direct button use this function. This will ensure there is no addition or reduction in bass or treble before the loudspeaker which would make the fine tuning process confusing.

#### 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 from 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



### Fine tuning for perfect sound

- Position your speakers so the bass is clear and defined as possible using various styles of well recorded music - remembering that more bass isn't necessarily better.
- 2 You now have the option to fine tune the bass response using the LF (Low Frequency) response switch. If you require a subtle reduction then use the first position or for a greater effect use the second position.
- Again, repeat the process by checking how the bass sounds using various styles of music and adjust accordingly.

#### Treble / HF (High Frequency adjustment)

The HF adjustment switching on the **fact** models will compensate for the following:

#### In the + position

This will subtly increase the HF/High frequency output to compensate for softer sounding source equipment or dull absorbent rooms i.e. rooms with an abundance of soft furnishings, carpets etc

#### In the – position

This will subtly decrease the HF/High frequency output to compensate for bright sounding source equipment or lively highly reflective rooms i.e. minimally furnished rooms with hard flooring and very little soft absorbent materials.

Good quality speech or a well recorded vocal should sound defined and completely natural and free from sibilance when the HF switch is in the correct position.

You will often find good quality speech on an FM broadcast by a national broadcaster.



### Service

We are confident your **fact** 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 distribution.

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 support department and obtaining a Return Authorisation Number.

### fact.8 Specifications

Freq response	28Hz – 30kHz
Sensitivity	88dB 1w 1m
<b>Effective <u>ATL™</u></b> (Advanced Transmission Line Length)	3m 9.8ft
Impedance	8 Ohms
Drive Units	LF 2 x fact <sup>®</sup> 140mm/5 ½" precision drivers
	HF 1 x fact <sup>®</sup> 22mm high res SONOMEX <sup>™</sup> soft dome ferro-fluid cooled
Crossover Freq	2 kHz
Input connectors	2 pairs 4mm PMC <b>Ag</b> terminals (Bi-wire or Bi-amp)
Dimensions	H 1030mm + 25mm spikes W 155mm + 80mm ingot feet D 380mm + 23mm Ag terminal
Weight	20.0 kg 44lbs each

### Warranty On-line

### SIMPLY ACTIVATE YOUR 5 YEAR 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 31 & 32 and post it to us.

### WARRANTY CERTIFICATE - PART 1

### Your Copy to KEEP

#### Please complete and retain this page for your own records

Product	$\square$
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 distribution for their details.

#### UK clients

In the unlikely event of a fault occurring with your PMC product firstly contact your dealer where the product was purchased. Do not return a product to PMC Ltd 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 Ltd 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.

This product is warranted 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 Ltd to dismantle, repair or modify any part of the product.

Ensure that it is properly packaged. 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 Ltd. Allow minimum of 14 working days for return of warranty repairs.

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

PMC LIMITED 43-45 Crawley Green Road Luton LU2 0AA UK T +44 (0) 870 4441044 F +44 (0) 870 4441045

### WARRANTY CERTIFICATE - PART 2

## Our Copy

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

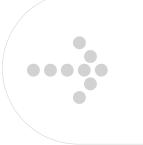
Your address

Town

County

Postcode/Zip code

Help us improve our products see over



### Help us Improve Your Comments

We value all our client's comments. Please take a moment to help us improve:

If there is one thing we should change, what would it be?

Please tell us how your new PMC's perform. Your comments may appear on the customer quotes section for this product on our site. N.B. Don't worry the comments will be anonymous; your personal details will not appear.

What	magazines	do	you	read?
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HiFi	Pro	Lifes style	Online
HiFi Choice	Future Music	T3	mixonline.com
What HiFi	Sound on Sound	d 🔵 Stuff	gearslutz.com
Stereophile	🔵 Audio Media	GQ	avreview.co.uk
HiFi World	Pro Sound News	s 🔵 Boys Toys	avforums.com
HiFi Critic	Resolution	FHM	🗌 HiFi WigWam.com
HiFi News	Audio Fanzine	Shortlist	What HiFi.com
HiFi+	IBE	O Maxim	Other
Grammophone	C Line Up	Esquire	
Other	Other	) Other	

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

### Inspection Certificate

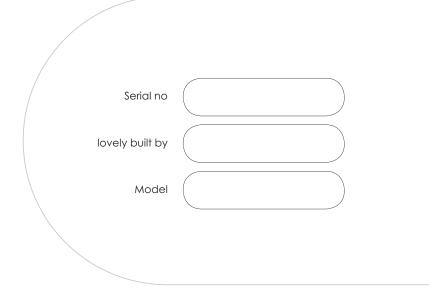
Every component that appears in a PMC product is measured, tested, matched and recorded by hand. This analysis also applies to the final product we to ensure you receive an identical replica of the reference model.

$\square$	Crossover matching	)
$\square$	Enclosure finish	)
$\square$	Assembly & Wiring	)
$\square$	Driver Installation	)
$\square$	Enclosure seal	)
$\square$	Level - Frequency	)
$\square$	Impedance - frequency	)
$\square$	Pair matching	)
$\square$	Listening test 1	)
$\square$	Listening test 2	)
$\square$	Final inspection	)
$\square$	Accessory pack	)
(	User Guide	



All the above has been carefully checked by the builder of your **fact** loudspeakers

Date	(	)
Dale		1





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The Professional Monitor Company Limited will not assume responsibility for errors that may appear in this document.

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