

ARCAM (·M)

**Multichannel Power
Amplifier**

Using this handbook

This handbook has been designed to give you all the information you need to install, connect, set up and use the Arcam FMJ P7 Multichannel Power Amplifier.

It may be that the P7 has been installed and set up as part of your Hi-Fi or home cinema installation by a qualified Arcam dealer. In this case, you may wish to skip the sections of this handbook dealing with installation and setting up the unit. Use the Contents list to guide you to the relevant sections.

SAFETY

Safety guidelines are set out on the following page of this handbook.

Many of these items are common sense precautions, but for your own safety, and to ensure that you do not damage the unit, we strongly recommend that you read them. This is a class 1 product and requires an earth connection.

OTHER LANGUAGES

Check the Arcam website (www.arcam.co.uk) for further languages.

CONTENTS

Using this handbook	3
Safety guidelines	4
Safety instructions	4
Safety compliance.....	4
Getting started with your P7	5
Introduction	5
Speaker installation	5
Cables.....	5
Installation	6
Positioning the unit	6
Connecting to a pre-amplifier.....	6
Connecting to a loudspeakers	7
Connecting to a power supply	7
Operating your P7	8
Front panel layout	8
Operating procedure	8
Bi-wiring and bi-amping your loudspeakers	9
Before you start	9
Bi-wiring your loudspeakers	9
Bi-amping your system.....	9
Troubleshooting	10
Fault status indicators.....	11
Technical specification	12
Guarantee	13
On-line registration	13

Safety guidelines

SAFETY INSTRUCTIONS

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions:

1. Take heed of warnings and instructions

You should read all the safety and operating instructions before operating this appliance. Retain this handbook for future reference and adhere to all warnings in the handbook or on the appliance.

2. Water and moisture

The presence of electricity near water can be dangerous. Do not use the appliance near water – for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

3. Object or liquid entry

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid filled objects such as vases should not be placed on the equipment.

4. Ventilation

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm (2 inches) around the sides and top of the appliance to provide adequate ventilation. Do not place other equipment directly on top of the unit.

5. Heat

Locate the appliance away from naked flames or heat producing equipment such as radiators, stoves or other appliances (including amplifiers) that produce heat.

6. Climate

The appliance has been designed for use in moderate climates.

7. Racks and stands

Only use a rack or stand that is recommended for use with audio equipment. If the equipment is on a portable rack it should be moved with great care, to avoid overturning the combination. As this amplifier weighs 31kg, ensure that the equipment rack or stand is sturdy enough to support this weight.

8. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, damp, lint-free cloth. Do not use paint thinners or other chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks if the unit is subsequently wiped with a damp cloth.

Do not spray cleaning products into the ventilation slots on top of the unit.

9. Power sources

Only connect the appliance to a power supply of the type described in the operating instructions or as marked on the appliance.

10. Power-cord protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, and also the point where they exit from the appliance.

11. Grounding

Ensure that the unit is grounded properly at all times.

12. Power lines

Locate any outdoor antenna/aerial away from power lines.

13. Non-use periods

If the unit has a standby function, a small amount of current will continue to flow into the equipment in this mode. Unplug the power cord of the appliance from the outlet if left unused for a long period of time.

14. Abnormal smell

If an abnormal smell or smoke is detected from the appliance, turn the power off immediately and unplug the unit from the wall outlet. Contact your dealer immediately.

15. Servicing

You should not attempt to service the appliance beyond that described in this handbook. All other servicing should be referred to qualified service personnel.

16. Damage requiring service

The appliance should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the appliance, or
- C. the appliance has been exposed to rain, or
- D. the appliance does not appear to operate normally or exhibits a marked change in performance, or
- E. the appliance has been dropped or the enclosure damaged.

17. Lifting the unit

This amplifier weighs 31kg, so take extreme care when lifting or moving this unit. We recommend that two people are available to lift this unit.

SAFETY COMPLIANCE

This product has been designed to meet the EN60065 international electrical safety standard.

Getting started with your P7

INTRODUCTION

The P7 Multi-channel Power Amplifier is built to Arcam's traditional high quality design and manufacturing standards. It is an extremely high-performance multi-channel power amplifier, offering up to 150W per channel. It is obviously well suited to multi-channel home cinema amplification, and also provides superb quality stereo performance with two-channel sources. The P7 is an ideal partner for the FMJ AV8 Pre-amp Processor.

Each power amplifier module is identical, and is electrically isolated from the other modules by opto-isolated circuitry which ensures that each amplifier module has its own isolated supply. This allows the amplifier to give excellent channel separation and very low distortion.

The P7 also has input and output phono sockets for the signal being fed to each channel, to allow the signal to be passed on to additional power amplifiers to drive loudspeakers in other rooms or to bi-amplify any of the speakers. If the P7 is being used to drive a five-channel surround sound system, then the spare two modules ('L surround rear' and 'R surround rear') can be used in conjunction with the main ('L front' and 'R front') modules to bi-amplify suitable front left and right speakers.

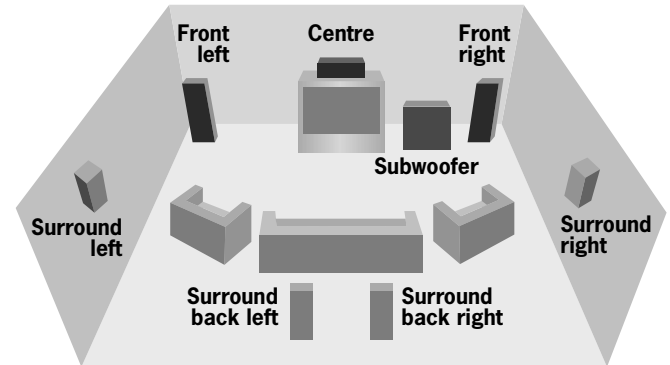
NOTE: For speakers to be suitable for bi-amping, they must have separate input terminals for bass (LF) and treble (HF) and any links between these terminals must be removed before using the P7 in this way.

The P7 can be easily integrated with various types of loudspeakers currently available, including those that are THX certified. Being THX certified means that the P7 has passed the rigorous THX Ultra2 specification enabling it to reproduce THX Surround EX signals from both Dolby Digital and DTS soundtracks, when fed from a THX Surround EX-capable processor, such as the Arcam AV8.

The customised installation of the P7 to a listening room is an important process which requires care at every stage. For this reason, the installation information is very comprehensive and should be followed carefully. This manual has been written with the assumption that the installer is familiar with the installation of audio/video systems.

SPEAKER INSTALLATION

The P7 allows connection of up to seven loudspeakers (for typical 5.1 and 7.1 installations). The speakers are distributed in the front left, centre, front right, surround left, surround right, surround back left, surround back right (see diagram below)



All speakers, with the exception of the subwoofer, should be arranged around your normal viewing/listening position (see diagram). The subwoofer can be placed almost anywhere and we recommend experimenting with it in various positions to obtain the best result.

Position your front left and right speakers to achieve a good stereo image for normal musical reproduction as well as for the multi-channel modes. If they are placed too close together there will be a lack of spaciousness. Alternatively if they are placed too far apart the stereo image will appear to have a large hole in the middle and will be presented in two halves.

The centre speaker allows for a more realistic reproduction of dialogue and centre sounds as well as wider and better imaging for stereo effects and background sounds for home cinema use. Do not compromise on the quality of your centre speaker as it carries all the dialogue for a home cinema system.

The surround left and right speakers reproduce the ambient sound and effects present in a multi-channel home cinema system.

The surround back left and surround back right speakers are used to add extra depth, a more spacious ambience and sound localisation.

A subwoofer will greatly improve the bass performance from your system. This is useful for reproducing special cinema effects, especially where a dedicated LFE (Low-Frequency Effects) channel is available, as with Dolby Digital or DTS Digital Surround encoded discs.

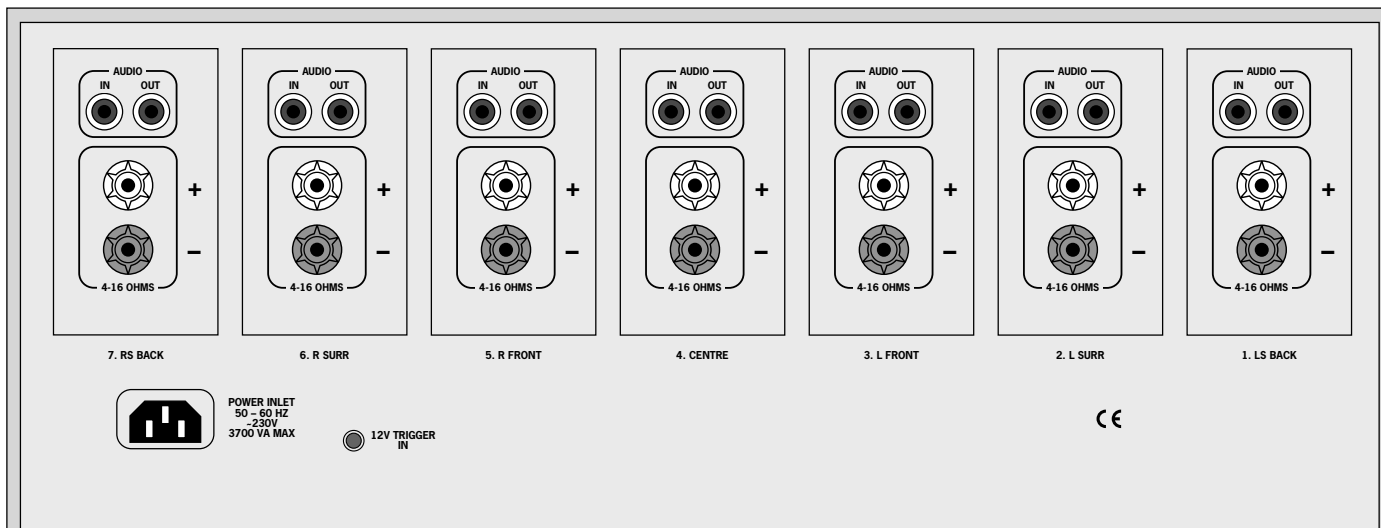
CABLES

We recommend the use of high quality screened analogue, digital and video cables as inferior quality cables will degrade the sound and picture quality of your system. Only use cables that are designed for the particular application as other cables will have different impedance characteristics that will degrade the performance of your system. Speaker cable length should be minimized and low resistance wire should be used throughout to ensure efficient power transmission and avoid audible distortion.

For optimum soundstage imaging, try to keep the right and left speaker cables the same length. You are also advised to route the signal cables, speaker cables and mains power cables away from each other to minimize interference.

Contact your Arcam dealer or installer for details of suitable cables.

Installation



POSITIONING THE UNIT

- Place the amplifier on a level, firm surface.
- Avoid placing the unit in direct sunlight or near sources of heat or damp.
- Do not place the unit on top of a power amplifier or other sources of heat.
- Ensure adequate ventilation.

The P7 has a variable speed fan for cooling. If the unit is placed in an enclosed space, such as a bookcase, equipment rack or cabinet, ensure that there is adequate space and ventilation in the enclosure for air to flow through the ventilation slots and cool the amplifier. Inadequate cabinet ventilation may cause the P7 to shut down due to thermal overload.

The amplifier is designed to run warm during normal operation.

- Ensure that the equipment rack or stand can support the 31kg weight of the unit.

CONNECTING TO A PRE-AMPLIFIER

ANALOGUE AUDIO INPUTS

It is imperative to connect the pre-amplifier outputs to the module for that particular channel, e.g. connect the left surround output to the module that will be driving the left surround speaker.

All modules are identical, however, we advise you to make connections corresponding to rear panel labelling, since the amplifier modules are muted in pairs. Due to the layout of the power supply circuitry in the P7, you should connect the correct input signal and loudspeaker to the recommended channel, or the left/right stereo imaging will not be optimum.

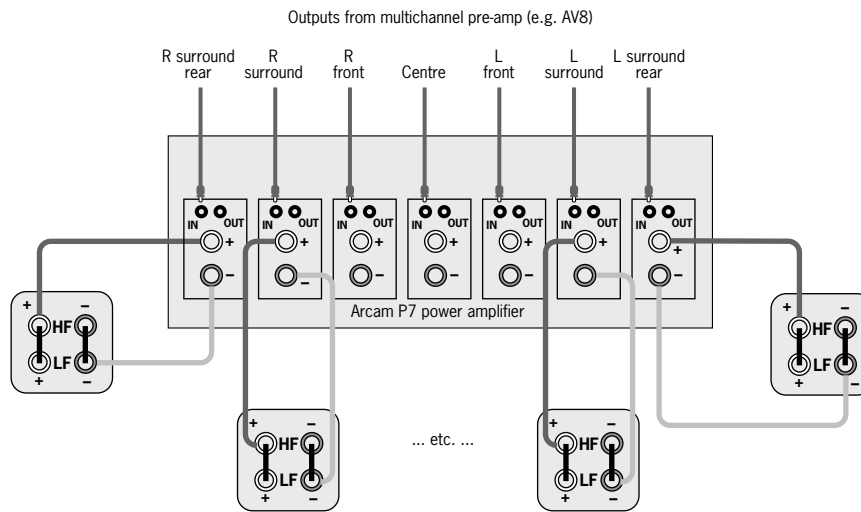
The outputs from the pre-amplifier should be connected to the **AUDIO IN** inputs on the P7. Be sure to note which channel from the pre-amplifier is connected to which power amplifier module, so that the correct speaker can be connected to that module and the correct channel identity can be maintained.

If you wish to use four modules to bi-amplify a pair of speakers, or would like to bi-amplify using another power amp, then you can take the signal for that channel and feed it on to the additional modules using the **AUDIO OUT** phono socket on that module. The signal is then fed in to the first module, but also fed on to the second module so that both modules can bi-amplify the loudspeaker.

12V TRIGGER INPUT

If your pre-amp provides a 12V Trigger output, it can be connected to the **12V TRIGGER IN** socket using a 3.5mm jack. This enables the P7 to be turned on remotely from the pre-amp.

Note that the trigger input is only active when the central power button on the front panel is depressed.



Basic wiring of loudspeakers (three channels omitted for clarity)

CONNECTING TO LOUDSPEAKERS

The speakers should be connected to the loudspeaker terminals, as per the correct input signal. In other words, the Centre channel speaker should be connected to the module that is being fed the signal for the Centre channel, and so on, for all the channels.

As with all speaker connections, ensure that polarity is maintained when connecting the speakers (i.e. red (+) to red; black (-) to black).

To bi-wire or bi-amplify your speakers, refer to the section towards the end of this Handbook where diagrams are provided. If you are unsure as to how your system should be connected, or need advice on bi-amping, please consult your Arcam dealer.

CONNECTING TO A POWER SUPPLY

WRONG PLUG?

Check that the plug supplied with the unit fits your supply and that your mains supply voltage agrees with the voltage setting (100V, 115V or 230V) indicated on the rear panel of the unit.

If your mains supply voltage or mains plug is different, consult your Arcam dealer or Arcam Customer Support on +44 (0)1223 203203.

MAINS LEAD

The appliance is normally supplied with a moulded mains plug already fitted to the lead. If for any reason the plug needs to be removed, it must be disposed of immediately and securely, as it is a potential shock hazard when inserted into the mains socket. Should you require a new mains lead, contact your Arcam dealer.

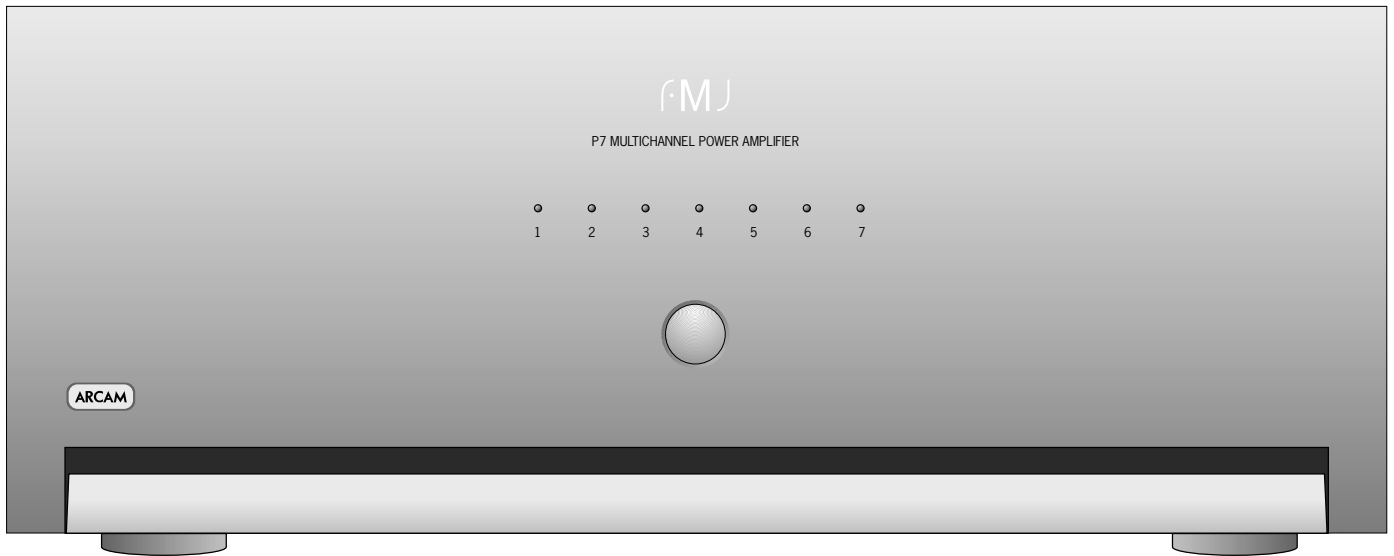
PLUGGING IN

Push the plug (high current IEC line socket) of the power cable supplied with the unit into the **POWER INLET** socket in the back of the unit. Make sure it is pushed in firmly.

The P7 has been designed so that a standard-rating IEC cable (which has insufficient current rating) cannot be plugged into the P7. Only high current power cables can be connected.

Put the plug on the other end of the cable into your power supply socket and switch the socket on.

Operating your P7



FRONT PANEL LAYOUT

The P7 front panel has a single control: a centrally located power on/off button.

POWER

Switches the unit on and off. Note that the modules are turned on individually to stagger the surge created when a powerful amplifier is switched on (i.e. it provides a 'soft start'). This reduces the surge current drawn from the domestic power supply.

POWER/STATUS LEDS

A separate LED indicates the status of each of the seven channels of the P7.

The LEDs cycle through red, orange, then green to indicate the status from powered-up (initialised), stabilised and active respectively.

All LEDs are off in standby mode.

OPERATING PROCEDURE

Once the relevant connections have been made, the P7 can be switched on using the central button on the front panel.

SWITCHING ON

It is recommended that you switch on your pre-amp or controller before powering up the P7 power amp.

Normal powering up is indicated by the following sequence of front panel LED indicators:

1. On pressing the power switch, all LEDs turn red.
2. After approximately half-a-second, the centre LED turns amber.
3. The LEDs continue turning amber from the centre to the edges in pairs, with intervals of approximately one second.
4. The centre LED turns green and a relay 'click' is heard.
5. The LEDs continue turning green from the centre to the edges in pairs, along with relay 'clicks', with intervals of approximately one second.

If the LEDs do not follow this sequence when the P7 is powered up, or behave abnormally at any time during use, then consult the table of 'Fault status indicators' on page 11 to discover why the amplifier is in protection mode.

NOTE: It is recommended that if the unit is switched off, then it should not be switched on again for at least 20 seconds from when it was turned off. This allows the amplifier's power supply to discharge fully before it is switched on again.

SWITCHING OFF

To shut down, switch the P7 power amp off first, followed by the pre-amp or controller:

This eliminates the chance of any 'thumps' or power spikes being fed through to the power amplifier and potentially causing damage to the system.

Bi-wiring and bi-amping loudspeakers

BEFORE YOU START

WARNING: Do not make any connections to your amplifier while it is switched on or connected to the mains supply.

Before switching on please check all connections thoroughly, making sure bare wires or cables are not touching the amplifier in the wrong places (which could cause short circuits) and you have connected positive (+) to positive and negative (-) to negative.

Always ensure that the volume control on your amplifier is set to minimum before starting these procedures.

BI-WIRING YOUR LOUDSPEAKERS

Bi-wiring improves the sound of your system because it divides the high and low frequency signal currents into separate speaker cables. This avoids signal distortions arising from the high and low frequency currents interacting with one another within a single cable, as in conventionally wired systems.

You will need:

Speakers – with four input terminals each: these will be marked HF (High Frequency + and -) and LF (Low Frequency + and -).

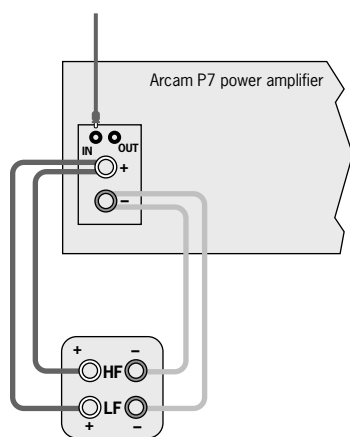
Loudspeaker cables – two pairs of cables per loudspeaker (which may be joined at the amplifier end if your amplifier has only one pair of output terminals per channel, as is the case with P7). Or, a suitably terminated cable set (a loom, probably prepared by your dealer and capable of being used for bi-wiring in one length).

How to bi-wire loudspeakers

1. Remove the terminal links on the rear of your loudspeakers.

NOTE: If you do not remove the shorting links from the speaker terminals, the speakers will still be single-wired!

2. Connect the cables as shown in the diagram below, ensuring correct polarity at all times.



Bi-wiring using one set of connections on amplifier

BI-AMPING YOUR SYSTEM

The performance of your system can be further enhanced over that achieved with bi-wiring, by extending the principle one stage further to include separate amplification for the low and high frequency drive units in each loudspeaker enclosure.

To bi-amplify your speakers, connect the speaker terminals from one module to one pair of terminals on the speaker. Connect another module, or one channel of a separate power amp, to the other pair of terminals on the speaker, so that two amplifier channels are connected to that speaker; one for low frequencies and one for high frequencies.

Ensure that in all cases, the positive terminals on the speakers are connected to the positive (red) terminals on the amplifier, and similarly for the negative (black) terminals.

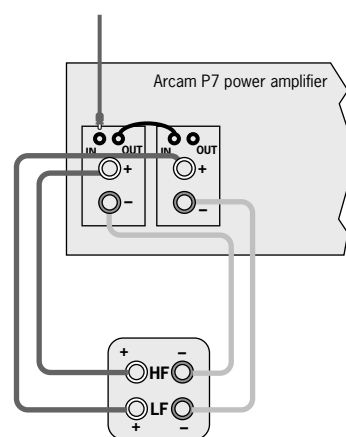
NOTE: In order to bi-amplify your speakers, your speakers will need to be bi-wirable, and have positive and negative terminals for both high frequency (HF) and low frequency (LF) information. If your speakers are bi-wirable, ensure that the links between the HF and LF terminals are removed.

How to set up a bi-amped system

1. Remove the terminal links on the rear of your loudspeakers.

WARNING: This step is essential or damage to your amplifier may result which is not covered under warranty.

2. Connect the cables as shown in the diagram below, ensuring correct polarity at all times.
3. Use interconnect cables to connect the OUT socket of the first channel to the corresponding IN socket of the adjacent channel of the power amplifier.



Recommended bi-amping configuration

Troubleshooting

NO LIGHTS ON THE UNIT

Check that:

- the power cord is plugged into the P7 and the mains socket outlet it is plugged into is switched on.
- the plug fuse has not failed, or a circuit-breaker earlier in the power supply path has not opened.
- the power button is pressed in.

RED LED PRESENT

Refer to the 'Fault Status Indicators' table if you have an unusual sequence of LEDs.

NO SOUND IS PRODUCED

Check that:

- the correct input has been selected on the pre-amp.
- you have assigned the digital input to the correct input source.
- the volume is turned up to a reasonable level and 'MUTE' is not displayed on the front panel display on the pre-amp.
- your power amplifier(s) are turned on and working correctly.

SOUND IS POOR AND BADLY DISTORTED

Check that:

- all cables are making a good connection. If necessary withdraw the cable from the connector and plug it back in again. (Turn the power off before doing this)
- you have selected the correct size of speakers to suit your system in the setup menu of the processor or pre-amp.

SOUND ONLY COMES FROM SOME OF THE SPEAKERS

Check that:

- all speakers in the system are connected to the P7.
- you have configured your pre-amp to include all the speakers in your system.
- you have an appropriate surround sound source selected and playing through the pre-amp.
- for digital sources, check the player is outputting multichannel data. With some DVD players you are able to select in what format multi-format encoded discs are outputted, and whether multichannel data is down mixed to PCM (stereo).
- the disc you are playing is a multichannel recording and that the processor is outputting multichannel audio.
- your speaker balance is correct.
- all amplifiers are turned on and all channels are working correctly.
- all units are turned on. If the audio is 'daisy-chained' from the P7, make sure that the unit being fed is turned on.

HUM ON AN AMPLIFIER OUTPUT

Check that:

- all cables are making a good connection. If necessary withdraw the cable from the connector and plug it back in again. (Turn the power off before doing this)
- if the hum originates from a ground loop caused by an aerial, satellite dish or cable supply, you should contact your aerial contractor.
- the signal (interconnect) leads are not wrapped around a mains lead.
- try switching the ground lift on the back panel of the processor (if available).

THERE IS RADIO/TELEVISION RECEPTION INTERFERENCE

The P7 has been designed to a very high standards of electromagnetic compatibility.

Check that:

- the aerial/dish cable is routed as far as possible from your P7 and its cabling.
- the cabling used from the aerial/dish is of high quality and screened.
- repositioning the receiving aerial/dish as far as possible from your P7 and its cabling may bring an improvement.
- if the problem persists, contact your aerial contractor.
- you are using high quality screened audio cable between your equipment and that no cables are broken or damaged.

FAULT STATUS INDICATORS

The LED patterns below indicate the following fault conditions:

LED status	Description	Amplifier action
All LEDs are green	This is the normal operating state of the amplifier.	None
During power up all LEDs stay red for an extended time	The amplifier is waiting for the DC offset fault lines to clear. A DC offset fault can occur if an excessive DC voltage is present at the output of the pre-amp feeding the P7. Normal operation resumes if the lines clear in 20 seconds.	To verify excessive DC offset voltage, remove the interconnect leads (with the P7 switchd off) and turn on the P7. The fault should have cleared.
During power up or normal operation, one or more LEDs are flashing green , with the remaining LEDs solid red	The DC fault cannot be cleared. The channels with the flashing green LEDs represent the amplifier modules that have a DC offset fault. Alternatively, a DC offset fault has reoccurred on the same channel within 12 seconds of a previous DC offset fault clearance.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger does NOT reset the amplifier).
During power up or normal operation, one or more LEDs are flashing green , with the remaining LEDs NOT solid red	The amplifier is attempting to clear a DC offset fault on a channel with the flashing green LED.	The amplifier mutes the channel with the fault and its paired channel. The amplifier stays in this state for up to two seconds or until the fault clears (whichever is sooner).
During power up or normal operation, one or more LEDs are flashing red , with the remaining LEDs solid red	A short circuit fault cannot be cleared. The flashing red LEDs represent the amplifier modules with a short circuit fault. Alternatively, a short circuit fault has reoccurred on the same channel within 12 seconds of a previous short circuit fault clearance.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger resets the amplifier).
During power up or normal operation, one or more LEDs are flashing red , with the remaining LEDs NOT solid red	The amplifier is attempting to clear a short circuit fault on a channel with the flashing red LED.	The amplifier mutes the channel with the fault and its paired channel. The amplifier stays in this state for up to half-a-second or until the fault clears (whichever is sooner).
During power up or normal operation, one or more LEDs are flashing amber	The amplifier is attempting to clear an over temperature fault on a channel with the flashing amber LED.	The amplifier mutes the channel with the fault and its paired channel and the fan is set to maximum speed. The amplifier stays in this state until the channel has cooled.
During power up or normal operation, one LED is flashing amber , with the remaining LEDs solid red	An over temperature fault has reoccurred on the same channel within 12 seconds of a previous over temperature fault clearance. The flashing amber LEDs represent the amplifier modules with an over temperature fault.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger resets the amplifier).
During power up or normal operation, all the LEDs are flashing amber	The amplifier is attempting to clear an over temperature fault on more than one channel, or the power transformers have overheated.	The amplifier mutes all channels and the fan is set to maximum speed. The amplifier stays in this state until all channels have cooled, or the transformer has cooled.
During normal operation, all the LEDs are solid red	An over temperature fault has reoccurred on one or more channels, or the power transformers have overheated within 12 seconds of a previous over temperature fault clearance.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger resets the amplifier).
During power up or normal operation, one or more LEDs are flashing amber , with the remaining LEDs flashing green	A DC offset fault occurred on one or more channels while attempting to clear a multiple over temperature fault.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger does NOT reset the amplifier).
During power up or normal operation, one or more LEDs are flashing amber , with the remaining LEDs flashing red	A short circuit fault occurred on one or more channels while attempting to clear a multiple over temperature fault.	The amplifier shuts down. The power switch must be cycled to reset the amplifier (cycling the trigger resets the amplifier).

Technical specifications

All measurements are with 230V/50Hz mains power

Continuous output power

All channels driven, 20Hz—20kHz, 8Ω	150W per channel	1.05kW total
All channels driven, 20Hz—20kHz, 4Ω	230W per channel	1.62kW total
One or two channels driven at 1kHz, 8Ω	160W per channel	
One or two channels driven at 1kHz, 4Ω	250W per channel	
One or two channels driven at 1kHz, 3.2Ω	300W per channel	

Peak output current capability

±25A per channel

Total harmonic distortion

At any level up to rated power, into 4 or 8Ω
<0.05% (20Hz—20kHz)
typically <0.005% at 1kHz

Frequency response

±0.2dB (20Hz—20kHz)
-1dB at 1Hz and 100kHz

Residual hum and noise

Ref. full power -122dB, 20Hz-20kHz, unweighted

Voltage gain

× 28.3 (1V input gives 100W/8Ω output)

Input impedance

22kΩ in parallel with 470pF

Output impedance

50mΩ at 20Hz, 1kHz
120mΩ at 20kHz

Power requirements

115V or 230VAC, 50/60Hz, 3kW maximum via heavy duty IEC mains inlet
A soft start system eliminates large inrush currents at switch on

Physical

Dimensions: W430 × D450 × H180 mm
Weight: 31kg (68 lb) nett; 35kg (77 lb) packed

E&OE

CONTINUAL IMPROVEMENT POLICY

Arcam has a policy of continual improvement for its products. This means that designs and specifications are subject to change without notice.

NOTE: All specification values are typical unless otherwise stated.

RADIO INTERFERENCE

The P7 is an audio device which has been designed to very high standards of electromagnetic compatibility.

The unit can radiate RF (radio frequency) energy. In some cases this can cause interference with FM and AM radio reception. If this is the case, keep the P7 and its connecting cables as far from the tuner and its aerials as possible. Connecting the P7 and the tuner to different mains sockets can also help to reduce interference.

EC COUNTRIES – These products have been designed to comply with directive 89/336/EEC.

USA – These products comply with FCC requirements.

Guarantee

WORLDWIDE GUARANTEE

This entitles you to have the unit repaired free of charge, during the first two years after purchase, at any authorised Arcam distributor provided that it was originally purchased from an authorised Arcam dealer or distributor. The manufacturer can take no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorised adjustment and/or repair, neither can they accept responsibility for damage or loss occurring during transit to or from the person claiming under the guarantee.

THE WARRANTY COVERS:

Parts and labour costs for two years from the purchase date. After two years you must pay for both parts and labour costs. The warranty does not cover transportation costs at any time.

CLAIMS UNDER GUARANTEE

This equipment should be packed in the original packing and returned to the dealer from whom it was purchased, or failing this, directly to the Arcam distributor in the country of residence. It should be sent carriage prepaid by a reputable carrier — NOT by post. No responsibility can be accepted for the unit whilst in transit to the dealer or distributor and customers are therefore advised to insure the unit against loss or damage whilst in transit.

For further details contact Arcam at:

Arcam Customer Support Department,
Pembroke Avenue, Waterbeach, CAMBRIDGE, CB5 9PB, England

Telephone: +44 (0) 1223 203203
Fax: +44 (0) 1223 863384
Email: support@arcam.co.uk

PROBLEMS?

Always contact your dealer in the first instance.

If your dealer is unable to answer any query regarding this or any other Arcam product please contact Arcam Customer Support on +44 (0) 1223 203203 or write to us at the above address and we will do our best to help you.

ON LINE REGISTRATION

You can register your Arcam product on line at:

www.arcam.co.uk/reg

ARCAM

PEMBROKE AVENUE, WATERBEACH, CAMBRIDGE CB5 9PB, ENGLAND

telephone +44 (0)1223 203203 fax +44 (0)1223 863384 email support@arcam.co.uk website www.arcam.co.uk