

ARCAM f·M·J

Progressive scan DVD player
DV27

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 DV27 DVD player. The remote control handset supplied with the equipment is also described.

It may be that the DV27 has been installed and set up as part of your Hi-Fi 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.

DISC TYPES SUPPORTED

The Arcam DV27 DVD player plays a range of disc types including DVD-video (single region, set at factory) as well as CD audio, CD-R, CD-RW including the decoding of HDCD material. It also plays Video CD, including CVCD, SVCD, DVCD variants, and some MP3 audio files (*.mp3) in CD-R/CD-ROM format.

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Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'Standard Definition' output. If there are questions regarding TV set compatibility with this model 525p DVD player, please contact Arcam Customer Support Department.

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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.

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.

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.

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 the point where they exit from the appliance.

11. Grounding

Ensure that the grounding means of the appliance is not defeated.

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

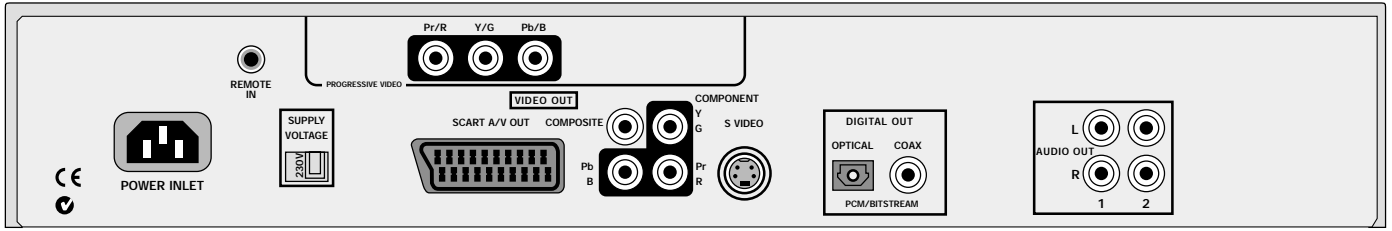
The appliance should be serviced by qualified service personnel when:

- 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.

SAFETY COMPLIANCE

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

Installation



POSITIONING THE UNIT

Place the DV27 on a level, firm surface and ensure that there is adequate ventilation for the unit.

CONNECTING OUTPUTS: VIDEO

To view the pictures from the DVD player you need to connect one of its video outputs to a TV, monitor or projector.

The DV27 has five video outputs:

- Component video
- RGB
- S-video
- Composite video
- Progressive scan component (525P(480P)) video.

You only need to use **one** type of video from the list. Choose a type that your TV supports.

NOTE: If your TV supports none of these types of video then it's time to purchase a new TV!

Note that you may connect equipment such as AV receivers in the signal path between the DVD player and the TV, so long as that equipment supports the correct type of video signal. For instructions on how to connect AV equipment, consult the manual for that equipment.

COMPONENT VIDEO

Use three phono cables to connect the Component Y, Pb, Pr outputs of the DVD player to the Y, Pb, Pr inputs of the TV. Ensure that the cables are suitable for video use and that they are approximately the same length. Some component video interfaces are labelled in different ways: see the table below if your TV's component inputs are not labelled 'Y, Pb, Pr'.

DV27 player	alternative	alternative	alternative
Y	Y	Y	Y
Pb	Cb	(B-Y)	U
Pr	Cr	(R-Y)	V

NOTE: Component video DVD players and TVs are not generally available in Europe.

RGB OUTPUT

RGB output is available on both the SCART and Component/RGB sockets and offers picture quality equal to component video.

Use appropriate cables to connect either the SCART connector or RGB phonos to the TV. Note that if you are using RGB output via phono connectors, you will also need to use **COMPOSITE** as a sync signal.

If you are using a SCART connection to your TV, it is best to mute your TV's speakers because SCART also carries stereo audio signals; this prevents audio coming through the TV.

AV control: The SCART output has a control signal that switches your TV to its SCART input when the DV27 is turned on. It will also signal to wide screen TVs the correct aspect ratio (16:9 or 4:3), provided these features are supported by the TV.

S-VIDEO

The S-Video output (also known as S-VHS or Y/C) is commonly supported by TVs worldwide. Connect the **SVIDEO** output of the DVD player to the S-Video input of the TV using an appropriate cable.

COMPOSITE VIDEO

If your TV only offers a composite input (sometimes labelled CVBS or just 'video'), connect this to the **COMPOSITE** video output of the DVD player using a phono cable suitable for video use.

PROGRESSIVE VIDEO (525P(480P))

If your television is capable of accepting a progressively scanned video signal you may wish to connect the progressive (525P(480P)) video output from the DV27. This is a second, higher quality, component video connection that outputs a video signal when the DV27 is playing 525 (NTSC) source material. Note that progressive video output is switched off whenever the DV27 is giving out 625 (PAL) video. If you are unsure if your TV can accept a progressive video output, please refer to its instruction manual or consult your dealer.

NOTE: The DVD player can only support Component video *or* RGB video at any one time. This is specified in the setup menu. If you use either of these outputs with an incorrect menu setting, the picture will be coloured in a strange way. Similar effects result from cross connection of the three signals.

CONNECTING DIGITAL AUDIO

If you have an external surround sound decoder, receiver or D-A converter that you wish to use with the DVD player, then you will need to connect it using either a coax or optical lead. These digital outputs provide 2-channel PCM, Dolby Digital, DTS or MPEG multi-channel audio, depending on the source material. It is also possible to set the digital output to always output 2-channel PCM (stereo mix-down) using the setup menu.

If possible, use the coax connection as this may offer slightly better performance. Connect the coax output of the DVD player to the digital audio coax input of the decoder/D-A converter or receiver using a phono cable designed for digital audio interconnection.

Alternatively, connect the optical output of the DVD player to the optical input of the decoder/D-A converter or receiver using a TOSLINK optical lead.

CONNECTING ANALOGUE AUDIO

If an external decoder is not available then the DVD player's analogue audio outputs will need to be used. You may also wish to use the analogue outputs when listening to CDs, to take advantage of the DVD player's high quality D-A converters.

Two pairs of identical outputs are provided. Connect one of these to your amplifier's input using a suitable pair of interconnect cables.

The second set of audio outputs can be used to connect to a second amplifier setup for 'multi-room' use or routed to a tape recorder for making recordings.

REMOTE CONTROL INPUT

The **REMOTE IN** input can be used to pass RC5 code to the DV27 if it is installed in a position (or system) where infrared cannot be used.

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

Configuring your DVD player

INTRODUCTION

Congratulations – if you have followed the installation instructions then the required connections to other equipment will have been made. It is now essential to go through an initial set up procedure to ensure the DVD player is configured correctly for use.

SWITCHING THE POWER ON

Press in the **POWER** button on the front panel: the power LED lights green.

OBTAINING A TV PICTURE

Ensure the TV is switched on and that you have selected the correct TV input. You should see the following image. This is the image that the DVD player gives whenever there is no movie playing.



To protect your screen from damage caused by persistent static images, a 'screen saver' facility moves the Arcam and DVD logos around the screen after a certain delay.

USING THE SETUP MENUS

If you have not already done so, now would be a good time to fit the two AAA batteries in the remote handset, taking care to get them the correct way round. Select 'DVD' using the **CD/DVD** button on the remote control.

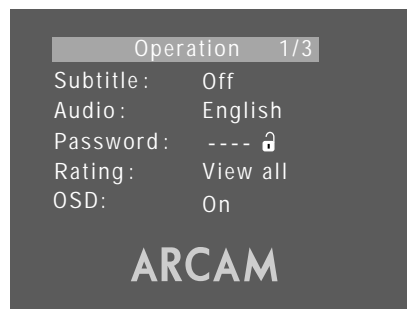
Ensure that no disc is playing and press **SETUP** on the remote control: a menu appears on the TV screen.

The 'Setup' menu is arranged into three pages. The top line of each shows the current page. To make a change, use the **UP/DOWN** controls to highlight the item, then use the **LEFT/RIGHT** controls to change the setting.

To change page, highlight the page bar at the top of the screen and use the **LEFT/RIGHT** controls to move through the pages.

In the 'Setup' menu, the **LEFT/RIGHT/UP/DOWN** controls 'wrap around', so that with the highlight bar at the bottom of the screen, pressing **DOWN** takes the bar to the top of the screen.

OPERATIONAL SETUP



SUBTITLE

This setting controls the subtitles displayed on the TV.

- Off** No subtitles
- Auto** Subtitles for the Primary language on the disc
- English** English subtitles
- Arabic** Arabic subtitles, etc... (17 languages are supported)

Note that some discs may force the subtitles on regardless of how this is set.

The default setting for this is 'Off'. Alternatively, choose the setting for the language you prefer. Note that not all discs will have your preferred language as a subtitle.

AUDIO

This controls the default audio track, when there is more than one audio track present.

- English** English language, if available
- Arabic** Arabic language, if available, etc... (17 languages are supported)

The default setting is 'English'. Choose the setting you would like as a default.

PASSWORD

The password setting works in conjunction with the rating setting (the next menu item), to provide a means of limiting content playback by children (parental control).

You will see there are four dashes and a padlock symbol. Normally the padlock symbol will be open and this means the parental control is unlocked. Under this condition the rating setting may be freely changed.

To lock the parental control, choose a suitable four digit number. Don't forget your password as you will need to know it to unlock the player. Highlight 'Password' and enter your four digit number using the numerical keys on the handset.

When all four digits have been entered, press **OK** on the handset. The player is now locked and you will not be able to change the rating setting.

To unlock the parental control, highlight 'Password' and enter your four digit number, followed by **OK**.

NOTE: You can change the password any time you lock the player.

RATING

The rating setting is used in conjunction with the password to restrict the content of DVD titles that may be played. To change this setting the parental control must be unlocked.

The term '**Parental level**' refers to a standard defined for DVDs. DVD movies have a parental level between 1 and 8. Note that this only applies to DVD video discs that have the parental level correctly implemented. Some DVD video titles do not respond to parental control settings, and Video CDs have no mechanism for parental control.

- View All** Titles of all parental levels will be played
- No Adult** Only material of parental level 4 or less may be played. This corresponds to the MPAA (Motion Picture Association of America) rating of PG-13
- Kids Only** Only material of parental level 1 may be played. This corresponds to MPAA rating G.

Once the rating level has been set, DVD titles with parental level higher than the setting will not play. Sometimes DVD video titles may be produced that have the parental level set for specific scenes, so a disc will play but skip or substitute certain scenes.

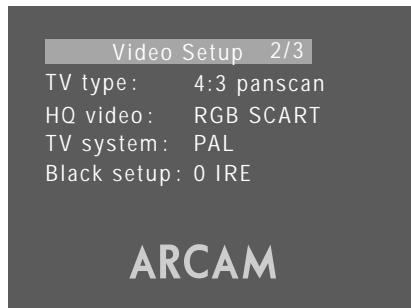
OSD (ON SCREEN DISPLAY)

This setting controls the 'pop up' messages that appear on screen.

- On** Pop-up messages are enabled
- Off** No pop-up messages, only menus when required.

Certain messages, such as 'No Disc' are always shown regardless of how this is set.

VIDEO SETUP



TV TYPE

This needs to be set correctly for the type of TV you have and the type of display you prefer.

- 4:3 Letterbox** Use this setting if you have a conventional 4:3 TV, and you prefer to view wide screen movies in letterbox format (with black bars at the top and bottom)
- 4:3 Panscan** Use this setting if you have a conventional 4:3 TV, and you prefer to view wide screen movies in Pan & Scan format (cropping the sides of the image)
- 16:9** Use this setting if you have a wide screen (16:9) TV. Material in 16:9 format is displayed so as to fill the screen.

If you have a 4:3 TV and you have set a preference for Panscan, it does not mean you will always see movies in this format, since the Panscan display must be supported on that disc.

HQ VIDEO (HIGH QUALITY VIDEO)

This setting controls the type of video given out on the Component and SCART video outputs. It is set at the factory to be appropriate for the type of TV used in your country, so it is best not to change it. If it gets set incorrectly then the picture shown on the TV will have strange colouring.

- Component** The video output on both the Component video (3 phonos) and SCART is Y, Pb, Pr component video.
- RGB SCART** The video output on both the Component video (3 phonos) and SCART is RGB. Note that if you are using RGB output via phono connectors, you will also need to use COMPOSITE as a sync signal.

TV SYSTEM

This is set at the factory to be appropriate for the type of TV used in your country. Should you need to change this setting, the options are explained below.

NOTE: PAL and NTSC refer to the video standards used in Europe and North America respectively.

- Auto** The video output is taken from that recorded on the disc. When no movie is playing, the logo screen is displayed using the standard from the last movie.
- NTSC** NTSC discs will be played as NTSC, and PAL discs will not play at all, since the unit cannot convert PAL to NTSC. This is the best setting to use if your TV can only accept NTSC video (this is generally the case in North America).
- PAL** PAL is always used as the video standard. Note that NTSC titles are converted to PAL, but this may cause some reduction in smoothness of movement. Better results may be obtained using AUTO; however your TV must then support NTSC.
- PAL60** This is '60Hz PAL'. This setting may allow NTSC titles to be played on certain PAL TVs that do not support NTSC.
- PAL-M** A variation of PAL that is used in Brazil
- PAL-N** A variation of PAL that is used in Argentina, Paraguay and Uruguay.

BLACK SETUP (PEDESTAL)

This setting controls the 'pedestal' signal or black level when the NTSC video standard is used. Note that it does not affect PAL video in any way.

- 0 IRE** This removes the pedestal from NTSC video. This setting should be used in Japan, and also if you are using RGB video, whatever the country.
- 7.5 IRE** This is the standard pedestal level that should be used in all countries that use NTSC video, with the exception of Japan.

AUDIO SETUP



DIG OUT (DIGITAL OUTPUT)

This needs to be set correctly if you are using an external audio decoder, receiver or D-A converter.

Bitstream – The DVD player outputs several different types of audio signal. The 'Bitstream' setting supports the following audio standards:

- 2 channel PCM (on CDs or DVDs)
- Dolby Digital
- MPEG multi channel
- DTS multi channel

Use the Bitstream setting if you have an external decoder that supports Dolby Digital.

Stereo PCM – All audio material played is down-mixed to stereo and output as stereo PCM. Use this setting if you have an external D-A converter that only supports 2-channel PCM. Note that DTS audio tracks cannot be converted to PCM.

OSD LANG (LANGUAGE)

Sets the language for the on-screen display. The options are English, French, Spanish or German.

AUDIO DELAY

Because progressive scan video processing takes several pictures (frames) to produce a higher quality video output, the audio signal needs to be delayed so that video and audio remain synchronised.

The audio delay needs to be set according to whether you are using standard outputs, or the progressive output from your DV27.

Normal Choose this setting if you are using one of the standard video outputs.

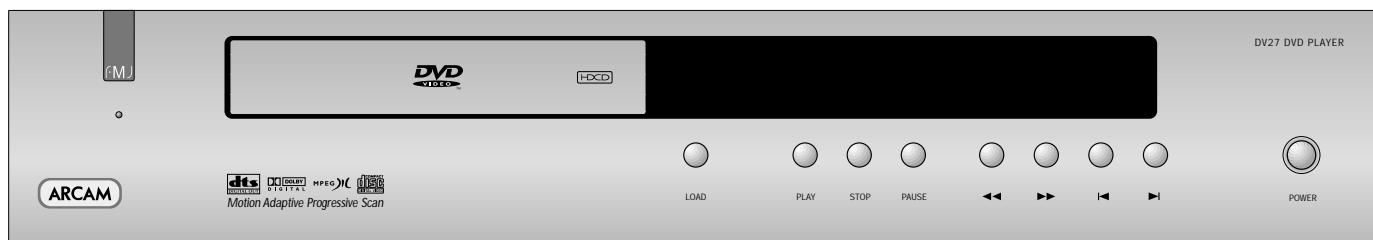
Progressive Choose this setting to watch video via the progressive video output of the DV27.

COMPLETING THE SETUP

Complete the setup procedure by pressing **SETUP** on the remote control. This saves all the data and closes the setup menu. You can press **SETUP** at any time while in a menu to quit from it.

To return to the setup menu at any time, ensure that there is no disc playing and press the **SETUP** button.

Basic use of your DVD player



INTRODUCTION

'Basic operation' explains how to play a DVD, CD or other type of disc, including the use of the CR-314 remote control.

More sophisticated features – such as special playback modes and using Bookmarks – are described later, in 'Advanced operation'.

FRONT PANEL CONTROLS

SWITCHING ON

Switch the unit on by pressing the **POWER** button. The status LED glows green when the unit is powered up and red when in standby mode (standby is operated from the remote control).

Note that the remote control sensor is located behind the FMJ badge. Do not obstruct this or the remote will not work.

HDCD INDICATOR

HDCD (High Definition Compatible Digital) encoded CDs are recognised automatically by the DV27. To indicate that an HDCD disc is currently playing, an LED beneath the FMJ badge lights.

PLAYING A DISC

LOADING A DISC

Press **LOAD** on the front panel (or **OPEN** on the handset) and place the disc on the tray, with the playback side facing down. Some discs are double sided, in which case the side labelled 'side A' should face up, to access side A.

Press **LOAD** on the front panel to close the tray. The disc loads after a pause of a few seconds.

PLAYING A DISC

Most DVDs begin playing automatically, but some titles begin by displaying a menu. Select the menu item 'Play movie' (or similar) using the cursor pad, then press **OK** to start playback.

For CDs and VCDs (and DVDs that do not play automatically), press **PLAY**.

Note that when playing DVDs, the drive mechanism operates at much higher speeds compared with CDs and may produce more noise when loading and playing initial chapters.

FAST PLAY

Press **▶▶** or **◀◀** on the front panel or remote control to play fast forward or backwards. There are four speeds for fast playback: x2, x4, x8 and (except for audio CDs) x20. Press the button repeatedly to cycle through the different speeds. To resume normal playback speed, press **PLAY**.

SKIPPING CHAPTERS/TRACKS

To skip chapters (or tracks on a CD), press **▶** or **◀**.

When skipping back, the first button press takes you to the beginning of the current chapter. Pressing the button again takes you to the start of the previous chapter.

Note that it is common for Video CDs to have only one track.

PAUSING PLAYBACK

Press **PAUSE** on the front panel or **||** on the remote control to pause playback. To resume playback, press **PLAY** on the front panel or **▶** on the handset.

STOPPING PLAYBACK

Press the **STOP** button on the front panel or **■** on the remote control to stop playback.

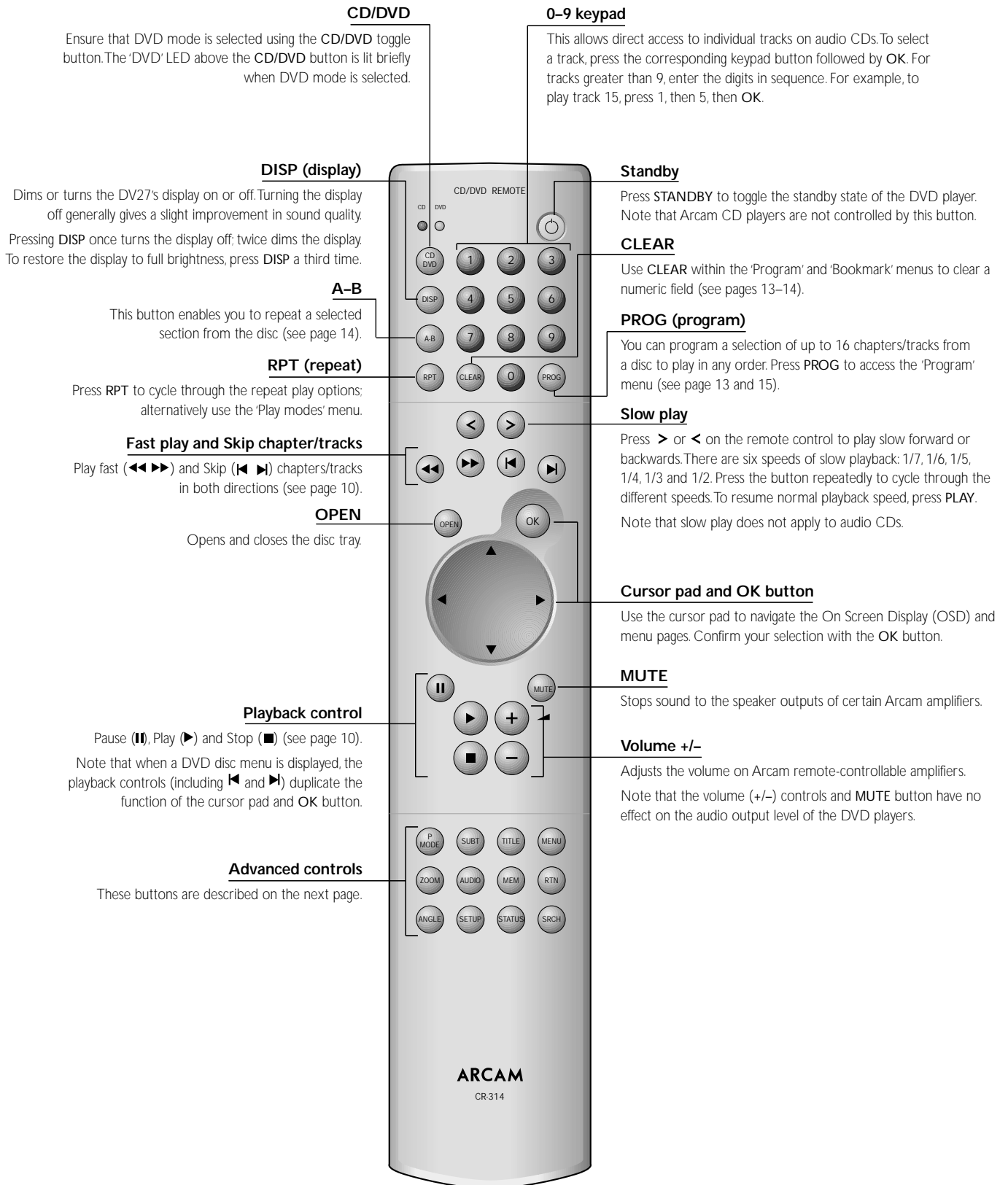
When playing a DVD, pressing **STOP** once performs a 'resume stop'. If you now press **PLAY**, playback resumes from the point it was stopped.

If you press **STOP** twice, this is a 'complete stop', and playback resumes from the beginning of the disc.

FRONT PANEL MENU NAVIGATION

Should you need to navigate a disc or title menu from the front panel, use **PAUSE** for 'up', **STOP** for 'down', **▶** for 'right', **◀** for 'left' and **PLAY** for 'OK'.

Using the remote control



NOTE: Remember to install the two AAA batteries supplied before trying to use your remote control.

Do not place anything in front of the FMJ badge on the left of the front panel (where the IR receiver is located), or the remote control may not work.

Advanced controls

MEM (memorise)

It is possible to 'bookmark' up to three points on a DVD title, so you can jump quickly to those parts of the title in the future. Press **MEM** to access the 'Bookmark' menu (see page 14).

TITLE

Press **TITLE** to access the DVD's 'Title' menu. Note that this feature only applies to multi-title discs.

MENU

Press **MENU** to access the DVD 'Disc' menu.

This navigation menu is specific to a disc and varies for each title, but typically offers facilities to select chapters, languages, and view extra material such as trailers or documentaries.

Once the menu has been accessed, use the cursor pad to move around the menu and press **OK** to activate a menu 'button'.

RTN (return)

Press **RTN** to move back through the DVD 'Disc' and 'Title' menus. Note that this feature is only of use with discs using multi-level menus.

SUBT (subtitle)

Press **SUBT** on the remote control to cycle through the available subtitle languages, including 'OFF'. Some discs force subtitles on, over-riding player set up.

P MODE (play modes)

To set repeat or random playback, press **P MODE** to access the 'Play modes' menu (see page 13)

ZOOM

Press **ZOOM** to enlarge a particular area of the picture. Up to three levels of zoom are available, but the amount of zoom possible varies depending on the type of disc: in some cases no zooming is possible (in which case a hand symbol appears).

If available, pressing **ZOOM** cycles through levels 1, 2 and 3, returning to normal size with a further press.

While using the zoom function, the cursor pad can be used to move around within the image. The zoom function can also be used when the player is paused.

ANGLE

Some DVDs offer the facility to select different camera angles. If this feature is available the 'camera' symbol lights in the display.

Press **ANGLE** to cycle through the available angles.

SETUP

'Setup' allows you to configure the DV27 for use in your system. Ensure that no disc is playing and press **SETUP** to access the 'Setup' menu (see page 7).

AUDIO

Some DVDs offer the facility to select different audio tracks. Press **AUDIO** to cycle through those available.

The TV displays the number, language and type of audio track, e.g. '1 Eng DD 6CH'.

SRCH (search)

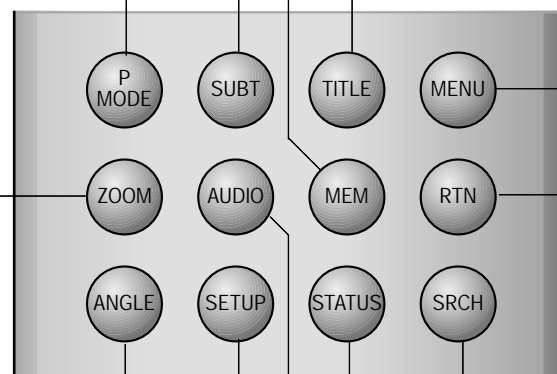
It is possible to access any point on the disc directly using the 'Search' menu.

Press **SEARCH** to access the 'Search' menu (see page 13).

STATUS

Press **STATUS** once to show the elapsed and remaining time of the disc. Press **STATUS** a second time to give information about the current disc. Press **STATUS** a third time to close the status display.

The status information displayed varies depending on the type of disc – DVD, CD or VCD.

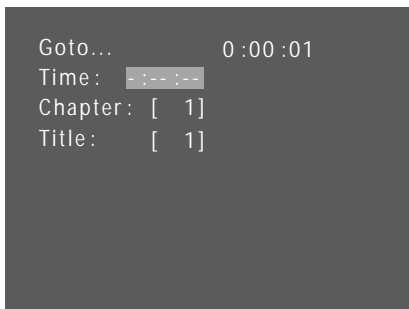


Advanced DVD features

This section explains the more sophisticated DVD features, such as special playback modes and using Bookmarks.

JUMPING TO A PARTICULAR POINT

Press the **SEARCH** button on the remote control to open the 'Search' menu:



The elapsed time on the disc is shown in the top right of the page (e.g. 0:00:17).

There are three ways of accessing a specific part of the disc: Time, Chapter and Title.

TIME

Highlight the Time field, enter the time in hours, minutes and seconds, and press **OK**. Invalid time entries are ignored.

CHAPTER

Highlight the Chapter field, enter the chapter number and press **OK**.

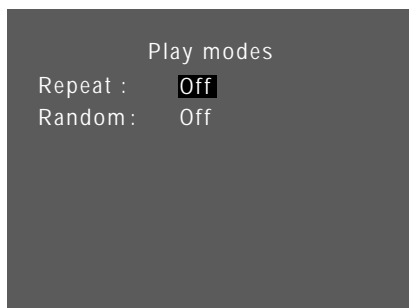
TITLE

Highlight the Title field, enter the title number and press **OK**. Most discs are arranged with the bulk of the material on one title, but this feature may be useful with specialist DVDs.

SPECIAL PLAYBACK MODES

There are some special playback modes available that allow repeat of the chapter or title, random play and programmed playback.

To set Repeat or Random playback, press the **P MODE** button on the remote control to open the 'Play modes' menu:



REPEAT

Use the cursor pad to highlight the 'Repeat' field, and cycle through 'Off', 'Chapter' and 'Title'. Press **P MODE** to exit.

When 'Repeat: Chapter' is set, the loop symbol lights in the display and the current chapter is repeated. When 'Repeat: Title' is set, the loop symbol and 'ALL' lights in the display and the current title is repeated.

To cancel repeat, press **STOP** or return to the 'Play mode' menu and switch it off.

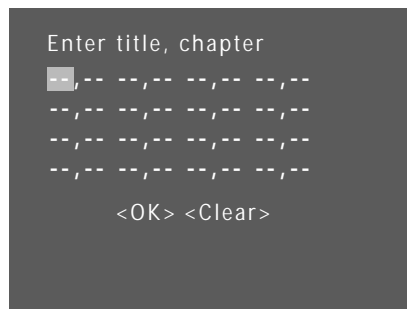
RANDOM

Use the cursor pad to highlight the 'Random' field, and toggle between 'Off' and 'On'. Press **P MODE** to exit. The 'RAND' indicator shows in the display, and the chapters are played in random order.

To cancel random play, press **STOP** or return to the 'Play mode' menu and switch it off.

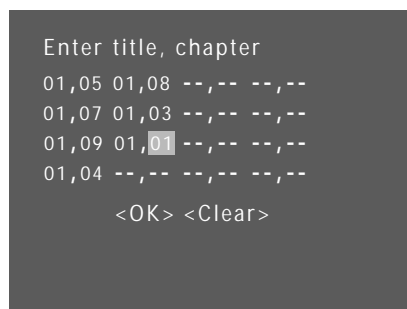
TO PROGRAM A SPECIAL SEQUENCE

Press **PROG** on the remote control to open the 'Program' menu:



You can enter a sequence of up to 16 chapters for programmed playback. Enter both title and chapter numbers for each. If you enter data that is invalid for the current disc, the field reverts to '.'.:

Enter the programme sequence, starting in the top left corner and going down each column in turn. For example, if you want to play chapters 05, 07, 09, 04, 08, 03, 01 in that order (and the movie was on title 01), enter:



Highlight **<OK>** and press **OK** to finish. The 'PROG' indicator shows in the display and the programmed sequence begins.

If you make a mistake programming, you can clear a single field by highlighting it and press **CLEAR**. To clear all the fields while in the menu, highlight **<CLEAR>** and press **OK**.

To stop the programmed sequence and return to normal playback, press **STOP**.

Note that skipping forward or back through tracks while in programmed play mode skips through the programmed sequence.

PERFORMING AN A-B REPEAT

The DV27 can repeat a specific section of a movie: this is called an A-B repeat.

To perform an A-B repeat, wait until the movie is at the point where you want the repeat to start, and press **A-B**. The TV display will say 'Repeat A-', and the front panel display will say 'A-'. Press **A-B** again at the point you want the repeat to end. 'Repeat A-B' is displayed on the TV monitor, and the front panel display says 'A-B'. The selected section is repeated in a loop.

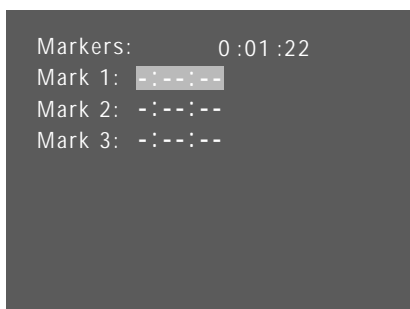
To cancel the A-B repeat, press **A-B** again. The TV display confirms 'Repeat A-B cancelled'.

BOOKMARKS

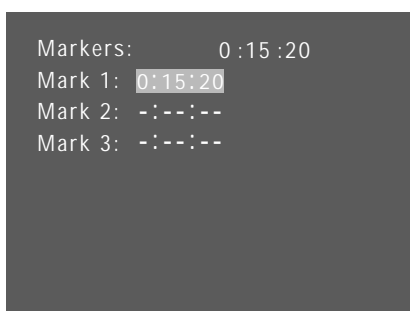
SETTING BOOKMARKS

It is possible to 'bookmark' up to three points on a DVD title, so you can jump quickly to those parts of the title in the future. Bookmarks for up to 100 discs can be stored: when this limit is exceeded, new bookmarks will overwrite those set earlier. Note that double-sided discs are treated as two separate discs for the purposes of setting and clearing bookmarks.

To set a bookmark, wait until the film has played nearly to the point you wish to mark, and press **MEM**. The bookmark menu is superimposed on the picture:



The time field for 'Mark 1' is highlighted. At the exact moment you wish to mark, press **OK**. Bookmark 1 has now been set.

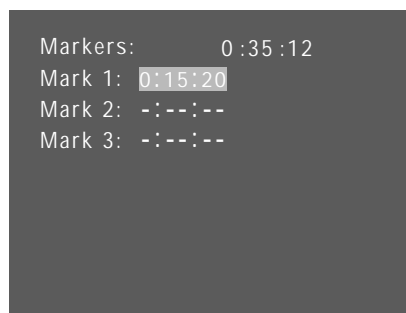


To close the bookmark menu, press **MEM** again.

Alternatively you may set bookmarks 2 and 3 on the same disc by highlighting the appropriate time field and marking the position(s) by pressing **OK**. To close the bookmark menu, press **MEM** as before.

JUMPING TO BOOKMARK POSITIONS

If a disc has bookmarks set, you can jump quickly to those points using the 'Bookmark' menu. Press **MEM** to open the menu:



Highlight the bookmark using the cursor pad, and press **OK**. The menu closes and the player jumps straight to the bookmark position.

CLEARING BOOKMARKS

It may be necessary to clear bookmarks if you have used the three markers on a particular disc and now wish to mark different points on the DVD, or if you have set bookmarks for 100 discs and wish to set new bookmarks without overwriting others. You will need to clear all the markers from a disc in order to release any space.

To clear a bookmark, open the bookmark menu by pressing **MEM**. Highlight the bookmark you wish to clear using the cursor pad and press **CLEAR** on the remote control.

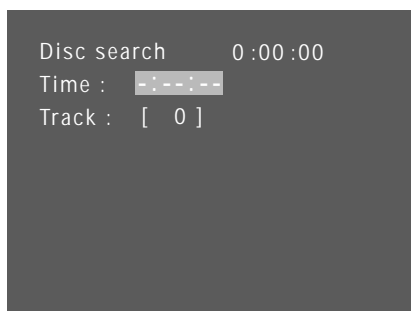
Advanced CD and VCD features

This section explains the more sophisticated CD and VCD features, such as special playback modes. The operations described here differ slightly from DVD but are similar for CDs and VCDs. Note that many VCDs have a single track, so some operations involving tracks are not appropriate for VCDs.

Many of these advanced features use on-screen menus, so a TV monitor is required.

JUMPING TO A PARTICULAR POINT

Press the **SEARCH** button on the remote control to open the 'Search' menu:



The elapsed time on the disc is shown in the top right of the page (e.g. 0:00:17).

There are two ways of accessing a specific part of a CD or VCD: Time and Track.

TIME

Highlight the Time field, enter the time in hours, minutes and seconds, and press **OK**. Invalid time entries are ignored.

TRACK

Highlight the Track field, enter the track number and press **OK**. Note that VCDs are likely to have only one track.

SPECIAL PLAYBACK MODES

There are some special playback modes available that allow repeat, random play and programmed playback.

To set Repeat or Random playback, press the **P MODE** button on the remote control to open the 'Play modes' menu:



REPEAT

Use the cursor pad to highlight the 'Repeat' field, and cycle through 'Off', 'Track' and 'All'. Press **P MODE** to exit and **▶** to start playing.

When 'Repeat:Track' is set, the loop symbol lights in the display and the current track is repeated. When 'Repeat:All' is set, the loop symbol and 'ALL' lights in the display and the whole disc is repeated.

To cancel repeat, press **STOP** or return to the 'Play mode' menu and switch it off.

Note that the 'Repeat:Track/All' modes can be directly controlled by pressing **RPT** on the remote control.

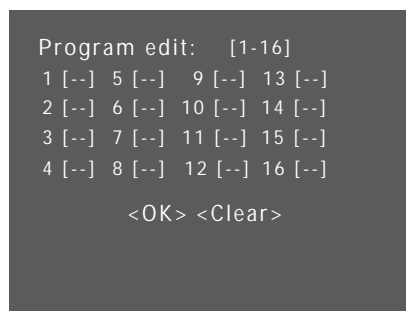
RANDOM

Use the cursor pad to highlight the 'Random' field, and toggle between 'Off' and 'On'. Press **P MODE** to exit and **▶** to start playing. The 'RAND' indicator shows in the display, and the tracks are played in random order.

To cancel random play, press **STOP** or return to the 'Play mode' menu and switch it off.

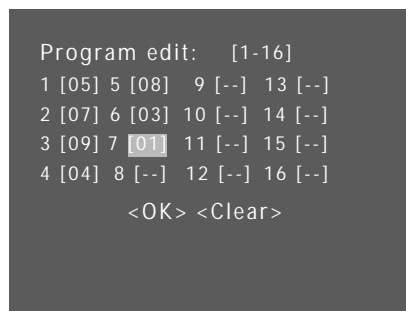
TO PROGRAM A SPECIAL SEQUENCE

Press **PROG** on the remote control to open the 'Program' menu:



You can enter a sequence of up to 16 tracks for programmed playback. If you enter data that is invalid for the current disc, the field reverts to [-].

Enter the programme sequence, starting in the top left corner and going down each column in turn. For example, if you want to play tracks 05, 07, 09, 04, 08, 03, 01 in that order, enter:



Highlight **<OK>** and press **OK** to finish. The 'PROG' indicator shows in the display and the programmed sequence begins.

If you make a mistake programming, you can clear a single field by highlighting it and press **CLEAR**. To clear all the fields while in the menu, highlight **<CLEAR>** and press **OK**.

To stop the programmed sequence and return to normal playback, press **STOP**.

Note that skipping forward or back through tracks while in programmed play mode will skip through the programmed sequence.

PERFORMING AN A-B REPEAT

The DV27 can repeat a specific section of a CD or VCD: this is called an A-B repeat.

To perform an A-B repeat, wait until the disc is at the point where you want the repeat to start, and press **A-B**. The TV display will say 'Repeat A-', and the front panel display will say 'A-'.

Press **A-B** again at the point you want the repeat to end. 'Repeat A-B' is displayed on the TV monitor, and the front panel display says 'A-B'. The selected section is repeated in a loop.

To cancel the A-B repeat, press **A-B** again. The TV display confirms 'Repeat A-B cancelled'.

Troubleshooting

Problem	Cause	Solution
Remote control not working	<ol style="list-style-type: none"> 1. DVD not selected 2. Batteries not installed, incorrectly installed, or flat 3. Obstruction between IR lens and remote control 	<ol style="list-style-type: none"> 1. Select DVD using the remote's CD/DVD toggle switch 2. Check battery compartment and reinstall batteries if necessary 3. Remove any obstruction
No picture	<ol style="list-style-type: none"> 1. Incorrect input selected on the TV 2. Bad video connection from DV27 to TV 	<ol style="list-style-type: none"> 1. Select the appropriate video input on the TV (consult your TV handbook) 2. Check connections at both ends and, if necessary, try an alternative cable
Picture does not fit screen	<ol style="list-style-type: none"> 1. 'TV type' is set incorrectly in 'Setup' menu 2. TV is set incorrectly 	<ol style="list-style-type: none"> 1. Enter the 'Setup' menu and check the 'TV type' setting (see page 8) 2. Select the appropriate aspect ratio setting (consult your TV handbook)
Picture is coloured strangely	<ol style="list-style-type: none"> 1. 'HQ video' is set incorrectly in 'Setup' menu 2. Component or RGB video leads are crossed 3. 'TV system' is set incorrectly in 'Setup' menu 	<ol style="list-style-type: none"> 1. Enter the 'Setup' menu and check the 'HQ video' setting (see page 8) 2. Check wiring between the DV27 and the TV monitor 3. Enter the 'Setup' menu and check the 'TV system' setting (see page 8)
Picture is "jerky"	Playing NTSC disc with 'TV system' set to 'PAL'	Enter the 'Setup' menu and change the 'TV system' setting to 'Auto' (see page 8)
No sound	<ol style="list-style-type: none"> 1. Incorrect input selected on audio device (decoder, receiver, amplifier, etc.) 2. Bad audio connection (analogue or digital) from DV27 to audio device 	<ol style="list-style-type: none"> 1. Select the appropriate input on the audio device (consult that product's handbook) 2. Check connections at both ends and if necessary, try an alternative cable
Player loads disc but will not play	Not all discs play automatically when loaded	Press PLAY
Player does not play disc after PLAY button is pressed	Temporary software problem	Switch player off, wait thirty seconds and restart
DVD disc does not play and "Parental lvl err" is displayed	Parental lock has been set	Unlock Parental control and change level (see page 7)
DVD does not play and "Invalid Region" is displayed	Disc has an invalid region code. The DV27 can only play discs from one region.	Only use discs for your region.
Disc does not play and "bad disc" is displayed	The disc is damaged or dirty	Remove disc from tray and check surfaces for damage or dirt.
Cannot enter 'Player setup' menu	Disc still playing	Stop disc, and press SETUP on remote control (see page 7)
Remote control is lost or unavailable and you need to navigate a DVD menu		<p>When the disc menu is displayed, use the following front panel controls to navigate the menu:</p> <ul style="list-style-type: none"> For 'UP' use PAUSE For 'DOWN' use STOP For 'RIGHT' use ▶ For 'LEFT' use ◀ For 'OK' use PLAY
No progressive video output	Video source is PAL (region 2)	Player cannot output progressive video from PAL source. Use a different video output for PAL discs.

NOTE: If any problem persists or cannot be cured using the advice given, either contact your Arcam dealer or Arcam customer support.

Technical specifications

General

Power Requirements	115V or 230V AC, set by voltage selector switch on rear panel
Power consumption	<30W
Dimensions	430mm x 90mm x 280mm
Weight	net: 6.2kg packed: 7.8kg

Video outputs

Composite video	1 x gold plated phono: 1V pk-pk into 75 Ω
S-Video	1 x 4-pin mini-DIN: Y 1V pk-pk in 75 Ω , C 0.3V pk-pk into 75 Ω
Component video	3 gold plated phono sockets: Y 1V pk-pk into 75 Ω ; Pb 0.7V pk-pk into 75 Ω ; Pr 0.7V pk-pk into 75 Ω .
SCART socket with RGB video	All 0.7V into 75 Ω , composite video 1V into 75 Ω , and stereo audio. Auto switching of TV with aspect ratio control
Progressive scan video	Pure Progressive™ motion adaptive 4-field processing by Silicon Image Corporation 3 gold plated phono sockets: 525P component video. Y 1V pk-pk into 75 Ω ; Pb 0.7V pk-pk into 75 Ω ; Pr 0.7V pk-pk into 75 Ω

Audio outputs

Analogue audio outputs	Two pairs of stereo outputs on gold plated phono sockets
Output level	2.2V rms at 0dB signal
Frequency response	20Hz to 20kHz (+0.1db, -0.5dB)
THD+N	<0.005% for 1kHz 0dB signal, measured 22Hz–22kHz, unweighted
S/N	105dB, measured 20Hz–20kHz, unweighted
Digital audio output (IEC958)	PCM/Dolby digital/MPEG/DTS on gold plated phono (coaxial) and TOSLINK (optical)

Accessories supplied

CR-314 remote control
2 x AAA batteries
Mains lead

E&OE

NOTE: All specification values are typical unless otherwise stated.

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.

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?

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.

Other languages

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

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