Panasonic

DVD/CD PLAYER DVD-S27/S24

Operating Instructions



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Before connecting the device, operating it or adjusting settings please read these operating instructions completely; especially the safety precautions on pages 2-3.

Important Safety Warnings



- The moulded three pin mains plug is supplied for your safety and convenience and must NOT be cut off.
- A 5 amp fuse is fitted in the mains plug. If the fuse has to be replaced, it must be of the same rating and approved by ASTA or BSI to BS1362. Check for the ASTA mark ⊕ or the BSI mark ♥ on the body of the fuse.

To replace the fuse, open the fuse compartment with a screwdriver as shown and replace the fuse and the cover securely.



- To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service engineer only.
- WARNING: To reduce the risk of fire, electric shock or product damage, do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not insert metal object into the slots or openings of the unit.
- This unit is not disconnected from a.c. mains while it remains connected to a live mains outlet, even if it has been turned off.
- The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.
- · This unit is intended for use in moderate climates.







- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING

- VISIBLE AND INVISIBLE LASER BADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

 AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖI LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL

- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUI

打开时有可见及不可见激光辐射,避免激光束照

ここを開くと可視及び不可視レーザー光が出ます。

 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNE LINNGÅ FKSPONERING FOR STRÅLEN.

ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OLIVERTURE EXPOSITION DANGEREUSE AU FAISCEAU.

AR ÖPPNAD. BETRAKTA EJ STRÅLEN.

GEÖFFNET. NICHT DEM STRAHL AUSSETZEN

ビームを見たり、触れたりしないで下さい。

CAUTION

CAUTION

VAR01

VARNING

ADVARSEL

VORSICHT

注音

Caution

- Avoid exposing the unit to direct sunlight or other heat sources.
- Avoid sudden change in temperature or humidity, dew or condensation may form, causing malfunction.
- Dispose of batteries in accordance with the instructions given in this book.
- Place the unit on a flat, stable surface. Do not place heavy object on top of the unit.
- Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast materials may infringe copyright laws.
- This unit is designed for indoor use only.
- Do not use in area with strong magnetic fields, e.g. near transmitting antenna.
- This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation vents.
 - Do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
 - Do not place sources of naked flames, such as lighted candles, on the unit.
 - Dispose of batteries in an environmentally friendly manner.
 - This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Do not open covers and do not repair vourself. Refer servicing to gualified personnel.



Back of product, see page 5.



FDA 21 CER / Class

IEC60825-1 / Class 3

RQLCA014

Care and Maintenance

The cabinet can be wiped clean with a damp cloth, disconnect from mains before cleaning. Do not use detergent or solution containing benzol or petroleum.

Included Accessories



Check that you have the accessories and items shown



Panasonic Sales and Support Information

Customer Care Centre

- For UK customers: 08705 357357.
- For Republic of Ireland customers: 01 289 8333.
- Visit our website for product information **www.panasonic.co.uk**.
- E-mail: customer.care@panasonic.co.uk.

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon - Friday 9:00am - 5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at **www.panasonic.co.uk**.
- Most major credit and debit cards accepted.
- All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Rear Panel



Batteries



Inserting batteries into the remote control unit:

The batteries last for about a year, depending on how often you use the RC unit.

- Do not mix old with new batteries or batteries of different types.
- Only use batteries without any harmful substances (such as lead, cadmium, mercury).
- Do not use rechargeable type batteries.
- Remove the batteries if the remote control unit will remain unused for longer periods of time.
- Do not heat or short-circuit the batteries.
- Immediately remove used-up batteries and replace with batteries of type AA, UM3 or R6.
- Be sure to put in the batteries the right way round (+and -).

Dispose of **batteries**, packaging material and the unit **according to statutory regulations**. They must not be thrown into the household refuse.



Remote control unit

	G	eneral	control			
	Stand-by/on switch Press to switch the unit from on to stand-by mode or vice versa. In st by mode, the unit is still consuming a small amount of por	tand-	A ENTED P	 OSD menu selection buttons. Select Groups () or Titles (JPEG, WMA or MP3. ENTER: to accept the selected menu 		AV ENHANCER FL SELECT (PENICIOSE AVVANCED SURROUND ACTURE MODE REPEAT
	Opens and closes the disc tray.		PLAY SPEED	Playback speed control. Adapts to a factor between x0.6 and	x1.4.	
FL SELECT	Selects the display contents. (Title/Chapter or Time)		09/1	Numeric key pad; input of two-digit r	numbers.	CANCEL QUICK REPLAY
CANCEL	Discards entries.		SLEEP	Switches off the unit at the set time.		
		<u>Menu</u> o	ontrol			
AV ENHANCER	AV Enhancer.	8	RETURN	Quits a menu.		DIRECT NAVIGATOR
ADVANCED SURROUND	Produces an effect similar to surround sound.	21		Selects the language of subtitles.	22 28	
PICTURE MODE	Selects the picture mode.	23	AUDIO	Changes the audio track.	22	DISPLAY
DIRECT NAVIGATOR	Displays the DVD-RAM menu.	17 28	ANGLE/PAGE	ANGLE : Selects a camera angle. PAGE : Changes menu pages. Rotates JPEG images.	19 22	PLAY MODE SLEEP ZOOM GROUP
PLAY LIST MENU	Displays a play list.Displays the menu.	17 18 28	SETUP	Displays the SETUP menu.	11 24	Panasonic DVD PLAYER
DISPLAY	Displays the on-screen display.	21 23	GROUP	Displays the DISPLAY menu Group Search.	22	N2QAJB000091

	Playback control						
PLAY	Start playback • Press PLAY ▶. Playback starts automatically.		Skip chapters, titles or framesPress SKIP during playback or in Pause mode.				
STOP	 Stop playback Press STOP ■ twice. Resume Press STOP ■ during playback to store the current position on the disc. Press PLAY ▶ while [▷] is flashing on the display. Playback is resumed at the point where you stopped it. 	SLOW/SEARCH	 Slow motion (backwards/forwards) Press SLOW in Pause mode. Keeping the button pressed increases the speed of search at 5 steps. Press PLAY ► to resume normal playback. * VCDs do not support reverse slow motion playback. 				
	 Cancel the Resume function Press STOP ■ until [▷] disappears from the display. * Opening the disc tray or the unit going into stand-by mode also clears the stored position on the disc. 	On-screen display	 Search Press SEARCH during playback. Keeping the button pressed increases the speed of search at 5 steps. 				
PAUSE	 Pause playback (still image) Press PAUSE II during playback. Playback stops at the current picture frame. Press PLAY ► to resume playback. 	REPEAT	Repeat • Press REPEAT during playback. There is no mode for repeatedly playing back entire discs.				
ZOOM	 Zoom Press ZOOM during playback. To fine-tune the zoom factor press ▼▲ To set the zoom mode: ENTER and ◀▶. 23 Restore factory setting Press ZOOM until x1.00 is shown. The zoom functionality may be restricted depending on the disc format. 	QUICK REPLAY	 Scene replay Press QUICK REPLAY during playback. Every push of the button replays a couple of seconds of the current track or programme. However, you cannot go back to before the beginning of a title. * QUICK REPLAY is not supported by all discs. 				
PLAY MODE	Random Playback/Program Play.	POSITION MEMORY	Resumes playback at stored [14] Position following an interruption.				

Front DVD-Player

Detailed information is available on the specified pages.



1	୯/୮	Stand-by/on switch ᠿ/I Press to switch the unit from on to stand-by mode or vice versa.		11	Pauses playback.
	In stand-by mode, the unit is still consuming a small amount of power.		6	•	Starts playback.
2		Stand-by indicator O When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.		44/44	SKIP: Skips chapters, titles or frames. SLOW/SEARCH (keep button pressed) Slow motion/search function.
3		Opens and closes the disc tray.			AV-Enhancer: Automatically optimises and adapts the audio and video
4		Stops playback.			settings to the disc used. The Picture and Audio menus are not available when this function is enabled.

Your DVD player provides a perfect digital DVD video output. Depending on the type of DVD, your hi-fi equipment or your stereo TV set you can play back stereo sound or digital multi-channel sound in excellent cinema quality. DVD video also features options for selecting the audio channel, the synchronised language, the language of subtitles and for choosing from various camera pick-up angles.

All basic functions of your DVD player can be controlled either via the unit or by means of the remote control.

However, these operating instructions will make reference to the remote control symbols only.

The remote control lets you make any changes to the device settings which will be retained when you switch off the player unit.

Connections

Before connecting

· Verify that all devices to be connected up are unplugged from the AC mains.

Note on all connections shown

Attach the unit directly to the TV set. If you let the player connection go through a video recorder you will experience a disturbed picture when playing copy-protected DVDs.



Home cinema





Enjoy the powerful theater sound available with multiple channel audio found on DVDs by connecting an amplifier and speakers.

Analogue connection (AUDIO OUT)

To be able to hear sound in stereo or Dolby Pro Logic quality, attach an amplifier or an analogue audio component supporting these features.

Analogue amplifier or analogue audio component (example)	

- Connect the analogue outputs (L and R) with a "Dolby Pro Logic amplifier", for example (see illustration).
- Connect the audio cables as shown on the illustrations. Make sure not to confuse the colours of cables or the labels of sockets (white/L, red/R).
- To avoid sound quality problems deactivate function Advanced Surround when you attach an amplifier with Dolby Pro Logic functionality. Please refer to page 21.

Digital connection (COAXIAL)

For optimum surround sound, connect a digital amplifier or a digital audio component.

 To play programmes with a 5.1-channel surround sound, connect the digital audio output (COAXIAL) with an external "Multichannel Dolby Digital Decoder", for example.



Connect 3 or more speakers to produce surround sound

Prerequisites for making recordings with an external digital recorder

- The original disc must not be copy-protected.
- The recorder must be able to process signals with a scanning frequency of 48 kHz/16 bit.
- You cannot make MP3/WMA recordings.
- Adapt the Audio SETUP menu settings (see page 24) to the following: PCM Digital Output: [up to 48 kHz] Dolby Digital / DTS Digital Surround / MPEG: [PCM]
- * Deactivate function Advanced Surround (see page 21).

QUICK SETUP

● S	Setup		
	QUICK S	SETUP	
	Select the me	nu language.	
	English	Français	
	Deutsch	Italiano	
	Español	Português	
	Svenska	Nederlands	
	▲▼ to select and press ENIER RETURN to return		

The navigator keys of the remote control unit allow you to move between menus and to accept or change the selected settings.



Press **ENTER** to store a change. Press **RETURN** to go back to the previous screen.

Press **SETUP** to quit the menu.

- Switch on the TV set and set it to the video input that matches the connection between player and TV set.
- Press the Stand-by/on button to switch on the DVD player.
- Press **SETUP** to display the QUICK SETUP menu.
- Use the navigator keys ◄►▲▼ to select a menu language, then press ENTER to confirm.
- To continue with setting the defaults, press ▲▼ to select [Yes] and ENTER to confirm. You can later go to the Setup menu to run QUICK SETUP again.
- Use the Setup menu options to adapt the default settings below to your appliance. Every menu item provides further information on the options you have.
- * Please refer to the operating instructions of your TV set to read more about the best settings.

Select the type of TV you have connected.

Optimise the picture settings of the connected appliance.

Select your TV's aspect ratio.

The format of TV screens is either 4:3 (standard) or 16:9 (wide-screen). Select the aspect ratio that matches the screen setting of your TV set.

Select the signal type output from the SCART terminal.

Before you proceed please check which setting is supported by your TV set.

To improve the picture quality, you can set the AV scart socket output to a variety of video signals:

[Video] = standard picture quality

[S-Video] = enhanced picture quality

[RGB] = best picture quality

S-Video and RGB: Requires a 21-pin scart cable.

Following QUICK SETUP, you can use the options of the Setup menu to make further settings. Press **RETURN** or **SETUP** to quit the Setup menu.

24

25

DVD-Video Video CD CD RAM MP3 WMA JPEG

17



Playback

- Press OPEN/CLOSE ▲ to open the disc tray.
- Place the disc on the disc tray.
- Press PLAY .

The disc tray closes and disc playback starts automatically.

* The player may take some time to read all of the disc information!

MP3, WMA, JPEG:

The Playback menu appears on the screen.

SUBTITLE

- Subtitles/information: 28 Press SUBTITLE to show or hide the text. Pause playback (still image) 7 Press PAUSE II during playback. Interrupt playback 7 Press STOP Press PLAY b to resume playback. Stop playback 7 Press STOP I twice. Playback of a particular DVD-Video Video CD CD RAM MP3 WMA JPEG track or title Type in a number using the RC unit's numeric key pad.
- For example, to select title 23:
 - 0 0 DVD/RAM/VCD/CD : Press 🕫 + 2 + 3.
 - MP3/WMA/JPEG : Press 2 + 3 + ENTER.
 - The unit automatically starts playing the selected track.
 - * Certain discs may not provide this function at all or only if the appliance is in stop mode.

Repeat



REPEAT

• Press **REPEAT** during playback. You can choose from the following settings, depending on the disc you use:



* The repeat function is available only if the disc runtime is displayed during playback. There is no mode for repeatedly playing back entire discs.

Repeating a VCD using playback control (PBC)

- Press **STOP** during playback until [PLAY] is no longer displayed.
- Type in the number of the CD track using the RC unit's numeric key pad.
- Press **REPEAT**. The display shows [TRK] or [ALL].

Single frame mode

DVD-Video Video CD RAM

In pause mode, press remote control buttons \blacktriangleleft or \blacktriangleright .

Every push of one of these buttons takes the film a single frame forwards or backwards.Keeping one of these buttons pressed continuously displays the next single frame in the chosen direction. You can also press **PAUSE II** to move the film forward a single frame at a time.

* VCDs do not support a backward motion by single frames.

Chapter review

This function lets you browse back through the chapters of a DVD-V by playing the first couple of seconds of every chapter.

- Press STOP during playback.
- Press PLAY ▶.

A message appears: Press PLAY to Chapter Review.

- Press PLAY ▶ again. The first couple of seconds of every chapter are played back. Normal playback is resumed at the point where you stopped it.
- * Do <u>not</u> press **PLAY** ► if you do not wish to browse back through the chapters. After a couple of seconds, normal playback will be automatically resumed at the point where it was stopped.

POSITION MEMORY

DVD-Video Video CD CD RAM MP3 WMA JPEG

DVD-Video

Use the **Position Memory** function to resume disc playback at a set position. You can tag and directly access up to 5 discs.

The position tag is retained when you change discs or when the unit goes into stand-by mode.

POSITION MEMORY



 Press POSITION MEMORY during playback. A message appears: Position memorized. You can now change discs or go into stand-by mode.

- Press **PLAY** ► to play back the disc again. Playback is resumed at the stored position and the position tag is cleared.
- * Some discs do not fully support all of this function.



SLEEP

Random playback

All chapters/tracks are played

once each in a random order.

- Press PLAY MODE while the disc is stopped. The Program Play screen is displayed.
- Press **PLAY MODE** again. The Random Playback screen is displayed.
- Press **PLAY** ► to start random playback.
- To deactivate the function, stop the disc and press PLAY MODE.

stand-by mode after approx. 30 minutes in Stop mode.

* DVD-V, MP3, WMA, JPEG: Press A or the numeric keys of the remote control unit to select or specify the track/group to be played in a random order.

DVD-Video Video CD

CD

MP3

WMA JPEG

)	Automatic switch-off DVD.Video Video CD CD RAM MP3 VMA JPEG • Press SLEEP to display that menu. • Select a switch-off timer option pressing ▲: Off → AUTO → 60 min → 90 min → 120 min [SLP] appears on the display. After the set time, the appliance goes into stand-by mode.	
	 Choose [Off] to disable the function. Choose [Auto] to have the appliance switch itself off 5 minutes after the end of the available runtime. [Auto] is not available if you press STOP, MENU or TOP MENU. Press SLEEP to check the time remaining until switch-off. 	
	* If Auto Power Off is activated, the player automatically goes into	

P	rogran	n Play			
		Chc	oose a title a	and chapter.	
	No.	Title	Chapter	Time	
Î	1				Play
					Clear
					Clear all
₩					
	_	_	_	_	
AV()	to sele	ect and	press ENT	R	PLAY to start

Program play

You can programme up to 32 chapters/tracks to be played in any order.

- Press **PLAY MODE** while the disc is stopped. The Program Play screen appears.
- * Use the numeric keys to specify the Group/Title (not with CDs) and the Content/Chapter. In the case of MP3 or WMA discs or if you select the numbers using ▲▼, press ENTER to confirm every entry.

DVD-Video Video CD CD MP3

- Repeat this procedure to make further entries.
- Press **PLAY** . The unit starts to play the programme.
- * Some discs may not provide this function.
- To clear an entry, press ▼▲ to select it first.
- Press ▶ and ▼ to select [Clear], then press ENTER.
- Choose [Clear all] and press ENTER to clear all entries.
- To change an entry, press **AV** to select it, then press **ENTER** to confirm.
- Press ENTER to confirm any changes to the Group/Title and Content/Chapter objects.

To quit the Program Play mode

- Stop the disc and press PLAY MODE until Program Play disappears from the display. The actual programme is retained.
- * To clear the programme, switch off the appliance or remove the disc.



WMΔ

JPEG

PI AY MODE

Dire		vigator				5
	No.	Date	On	Title	Conte	ents
ĥ	1	9/12 (THU)	16:48	Friends		
	2	9/12 (THU)	20:00	News		▶
H						
	0~9	to select an	d press	ENTER	RETURN to	exit

Your player can play DVD-RAM discs recorded in the video recording format, version 1.1, by a DVD video recorder, DVD video camera, computer etc.

Total 260
Total 0
IUldi U
Total 260
ER

DVD-RAM Direct Navigator

- Press **DIRECT NAVIGATOR** to enter or exit the menu screen. Programme names are shown only if they were entered when the RAM was produced.
- Press ▶ to display the programme information.
- Press ◀► to browse.
- Press **RETURN** to go back to the previous screen.
- Press **V** or use the numeric keys to select a programme. Playback starts in the background.
- Press ENTER to hide the menu screen.

To play tracks from a play list

You can play tracks contained in a play list recorded on a DVD video recorder, for example.

- Press PLAY LIST. The Playlist screen is displayed if the disc has a play list on it. Press PLAY LIST again to quit the menu.
- Press **A** or use the numeric keys to select a play list, then press **ENTER** to confirm. Playback starts.
- Press SKIP to leave out tracks down a play list.

Playback Menu

- The Playback Menu appears on the screen when you insert a JPEG, WMA, MP3 or HighMAT disc.
- Press AV to select the contents you wish to play, then press ENTER or PLAY to confirm.
- * To display the Navigation Menu when playing HighMAT discs, go to the Setup menu, pick item Others and set HighMAT to [Enable]. Or select in STOP-Mode in the Other Menu [Play as Data Disc].





WMA

MP3

JPFG

RAM

TOP MENU

25

23

Navigation Menu



To display the selection menu

 Display the Navigation Menu and DISPLAY press DISPLAY. The Selection menu is displayed.



• Press **A** to select a menu item, then press ENTER to confirm or **RETURN** to guit the Selection menu.

Navigation Menu	©1 ©1∹
Group 1 Group 2 Group 4 Group 5	J01 ✓Multi J02 List J04 Tree J05 Previous group J07 ✓All J08 Audio J09 Picture J1 Help display J12 Find
Group 001/011	Content 0001/0003
▲▼ to select and press ENTER	RETURN to return

To display the Navigation Menu

- Press MÉNU. The Navigation Menu is displayed.
- Press **AV** to select a title, then press **ENTER** to start playing it.
- Press MENU to guit the menu.

Navigation Menu / Selection menu options

-	-
Multi	The [Group] and [Content] panels are tiled vertically. • Press ◀► to move the cursor from [Group] to [Content] and back.
List	Shows the [Content] of the selected [Group].
Tree	Displays a tree view of the groups. Press A and ENTER to select a [Group]. The Group's contents is shown.
Thumbnail	Displays the JPEG Thumbnail Menu.
Next group Previous group	Moves to the next or previous group.
All / Audio / Picture	Selects the formats shown on the Navigation Menu.
Help display	Displays help on the menu control or the status indicator.
Find *A Find	 To find groups or content Press I to enter the target word into the text box. Press I to make corrections. Press I to select [Find] and ENTER to confirm. The match list contains the matching entries. If there are no matching entries, you will see: [Not found]. Press I and ENTER to start playing the track you looked for. * In the [Multi] view press I to select the Group or Content panel. The search is performed in the selected area. Search with asterisk: The match list covers all entries containing the word you specified. Search without asterisk: To look for the first work in a title press I to delete the asterisk.

Navigation Menu



WMA / MP3 / CD-Text

Group : Songs 3 Content : 01 - Title 1

JPEG

Group Pictures 5 Content P1010002 Date 2004/01/25 17:26 Camera DMC-LC20

JPEG Thumbnail Menu

Pick **DISPLAY** from the Navigation Menu and press to select [Thumbnail].



• Press **A •** to select a picture.

Press \blacktriangle \checkmark \checkmark to page up or down. When you have browsed the pictures of a group, the pictures of the next group are shown.

• Press ENTER to confirm. The selected picture is shown full size.

Rotate pictures

• Press **ANGLE/PAGE** while the picture is shown. The picture is rotated clockwise by 90 degrees.



- Press ▲▼ to select the [Group], press ◀► to select the [Title].
- * WMA: You cannot play copy-protected WMA files.
- * MP3: The appliance is incompatible with ID3 tags.
- * WMA, MP3, JPEG (CD-R / CD-RW): Make sure the discs are compatible with ISO 9660 (level 1 or level 2).



JPEG

DISPLAY

HighMAT



Playlist	Sorted according to artist Acapella
<mark>배당</mark> Playlist Group Content	No. Playlist title 1 Sorted according to artist ↓ 2 Sorted according to sampler ↓ 3 Sorted according to category ↓ 4 Acapella ↓
▲▼∢► 0~9 to sel	ect ENTER to play RETURN to exit

CD Text



HighMAT (High Performance Media Access Technology) is a joint Panasonic and Microsoft technology development. Diverse HighMAT-level 2 format data (WMA, MP3 and/or JPEG) stored on a disc by a PC can be quickly played back by the appliance with the additional help of a menu.

While the HighMAT menu is displayed:

Press ▲▼ ▲► to select and ENTÉR to confirm.

Menu: Takes you to a sub-menu containing further play lists or menus.

Playlist: Starts playback

- Press TOP MENU to show or hide the HighMAT menu.
- Press **RETURN** to go back to the previous menu.
- Press DISPLAY to show or hide the background stored on the disc.
- Press SUBTITLE to show or hide information on the track.

Selecting from a Playlist

- Press MENU during playback. The play list appears (4 indicates the currently playing item).
- Press

 and then ▲▼ to move from [Playlist] to [Group] and [Content] and back.
- Press ▶ and then ▲▼ to select an item, then press ENTER to confirm.
- · Press MENU to quit the Playlist screen.

CD Text menu

Press MENU.

The CD Text menu appears on the screen.

The screen contains information on the disc and a list of tracks.

- Press **A** to select a title.
- To play the selected track, press ENTER.
- Press RETURN to quit the menu.

CD-Text

DISPLAY menu

Playback status indicator (DVD-S27 only)



- Press DISPLAY twice to activate the playback status indicator.
 - Press ◀ ► to change the playback speed.
 - Press I to display the current and the remaining playback time.
 - Press DISPLAY again to hide the status indicator.

Advanced Surround

DVD-Video Video CD RAM

Requires 2 or more audio channels.

- Press ADVANCED SURROUND
- Press VA to select any of the menu items.

Menu	Off
Advanced Surround SP1	✓ SP1 Natura
Advanced Sunound Sr T	SP2 Enhan
	HP1 Natura
	HP2 Fnhan

- Effect off (factory default). Normal degree of effect on loudspeakers. Enhanced degree of effect on loudspeakers.
- Normal degree of effect on headphones.
- Enhanced degree of effect on headphones.
- * Advanced Surround is not supported by all discs.
- * Deactivate the Advanced Surround effect if you experience distorted sound.
- * Deactivate Advanced Surround if you are also using Dolby Pro Logic Amplifier, Dolby Pro Logic will not work properly if Advanced Surround is on.

To display the DISPLAY menu. DISPLAY

- Press **DISPLAY** to invoke the DISPLAY menu of the current disc. The available options depend on the current disc.
- Press ▲▼ to select a sub-menu, then press ▶ or ENTER.
- Press I to select a setting as described on pages 22 and 23.
- Press ENTER to confirm.
- Press ▶ to display another sub-menu.
- Press IV to select a setting as appropriate. (Press ◀ to move to the previous menu.)
- Press ENTER to confirm your selection.

(The items of the menus may vary depending on the contents of the disc)

Press RETURN or DISPLAY to guit the menu.

Menu Program 1/ 1 Time:: Audio Subtitle Marker (VR)	Play Speed AV Enhancer Off Play Menu Picture Menu Audio Menu	
Other Settings	Display Menu Other Menu	
DVD-RAM menu illustration DVD-RAM		

DISPLAY menu

Menu Title 1/36 Chapter 1/27 Time: Audio Subtitle Subtitle -/- Other Settings	DVD-Video
Menu Track 1/ 2 Time 48:10 Audio L R Other Settings	Video CD
Menu Playlist 1/38 Group 1/20 Content 2/12 Time 0:39 Audio 96kbps Other Settings	HighMAT
Menu Group 1/11 Content 1/12 Time: Audio Other Settings	WMA/MP3
Menu Group 1/ 6 Content 1/68 Thumbnail Rotate Picture Slideshow On Other Settings	JPEG
Menu Track 1/14 Time 48:10 Other Settings	CD

Title/Track Search: Allows you direct access to a title/track if the disc hosts several.	
Program Search: Allows you direct access to a program if the disc hosts several.	
Chapter Search: Allows you direct access to a chapter if the disc hosts several.	
Group Search: Allows you direct access to MP3/WMA tracks or JPEG images defined to make up a group.	GROUF
Content Search: Directly select a MP3/WMA track or JPEG image stored on the disc.	
Playlist Search: Directly select a play list stored on the disc.	
 Time: Display/select playback time: Alternative display of current or remaining playback time. MP3, WMA, SVCD: Shows the playback time only. Shows the current playback time or the remaining playback time. Time Slip: Press ▲▼ to select the interval by which playback is to move back or forward. Time Search: Use the numeric keys to specify the time at which playback is to be resumed. 	
Audio/Karaoke: Allows you to alter the pre-set language of synchronisation provided the disc gives you an alternative. In the case of VCDs, you can change the left/right audio channel setting.	AUDIO
Subtitle/Language: Selects the language of on-screen subtitles. [Off]: No subtitles displayed.	SUBTIT
Marker (VR): Select the marker tags set on a DVD-RAM by a DVD recorder.	
Angle: Change between camera angles of films recorded from various camera locations.	IGLE/PA
Thumbnail: Displays the thumbnail menu. Press ▲▼ ◀ ► to select a JPEG image.Press ENTER to show the selected image full screen.	19
Rotate Picture: Select [Right] or [Left] to rotate the image on the screen in the selected direction.	
Slideshow: Starts and stops the on-screen slideshow. Choose [Interval] to set the time every slideshow picture remains on the screen (0 to 30 seconds).	

DISPLAY menu

These settings are not available for every disc.

Other Settings Play Speed x14	AV-Enhancer: Automatically optimises and adapts the audio and video settings to the disc used. ^A The Picture and Audio menus are not available when this function is enabled.	AV ENHANCER
Play Speed x1 a AV Enhancer Off Play Menu x1 a Picture Menu x0 a Audio Menu x0 a Display Menu x0 a Other Menu x0 a AV Enhancer Off Other Menu x0 a AV Enhancer Off On On	A-B Repeat: Playback repeats a defined section between positions A and B of a title. Press ENTER to set starting point A and end point B. If you do not set point B, the end of the track is used as the end point. Press ENTER to terminate this function. Repeat: Allows you to repeat the current track or chapter. Marker: Up to 5 positions can be tagged pressing ENTER. Press CANCEL to delete any mistakes. Select a marker and press ENTER Playback starts at the marker tag. The markers are cleared by opening the disc tray or switching off the appliance.	
Play Menu Repeat Off A-B Repeat ** Marker	Picture Mode Factory default Cinema1: Factory default Enhances brighter areas of dark scenes. Cinema1: Cinema function for viewing in dark rooms. Bright picture areas are dimmed down. Cinema2: Enhances brighter areas of dark scenes.	PICTURE MODE
Picture Menu Picture Mode Normal Audio Menu Advanced Surround Off	Advanced Surround: Produces an effect similar to surround sound at the two front speakers (SP) or the headphones (HP). Deactivate this function if the sound becomes distorted. Dialogue Enhancer: Puts up the volume of feature film dialogues. Attenuator: Adapts the volume to the TV set connected (e.g. after sound problems).	
Dialogue Enhancer Off Attenuator Off Display Menu Subtitle Position Subtitle Brightness Just Fit Zoom Manual Zoom x1.00 GUI See-through Off GUI-Brightness 0	Subtitle Position : Subtitle Brightness:Vertically moves the subtitle shown. Modifies the brightness of the subtitle shown. Allows you to select a pre-defined picture size.Just Fit Zoom: Manual Zoom: GUI See-through: GUI-Brightness:Allows you to select a pre-defined picture size. Zooms into the image to enlarge it by up to twice its original size. The background of OSD text becomes transparent. User-defined brightness of OSD text.	ZOOM
Other Menu Sleep Off Play as Data Disc	Sleep: After the set time, the appliance goes into stand-by mode. Choose Auto to have the appliance go into stand-by mode 5 minutes after the end of the available runtime. Play as HighMAT / Play as Data Disc: Stop the HighMAT disc and choose to play it as a data disc or as a HighMAT-format disc. Play as DVD-VR / Play as Data Disc: Stop the DVD-RAM and choose to play JPEGs or the programme.	15 17 17

Play Speed: Select a factor by which to change the playback speed.

The digital audio output switches to PCM.

PLAY SPEED

 \bigcirc

SETUP menus

To display the Setup menu

- Press **SETUP** to display the Setup menu.
- Press ▲▼ to select a sub-menu, then press ►.
- Press AV to select the option to be changed, then press ENTER to confirm.
- Press AV to select a setting option, then press ENTER to confirm.
- Press **I v** to select the next menu item.
- Press **RETURN** to quit the menu.

Setup		
Disc Video Audio Display	Audio Subtitle Menus	English Automatic English
Others	Ratings	Level 8 🔒
▲▼◆ to select and press ENIER RETURN to exit		

4:3 TV aspect ratio

Letterbox:





Menu Disc	
Audio Subtitle Menus	Disc's Audio Preference / Subtitle Preference / Menu Preference. Select the preferred language of either of the items. If the language you want is not on the list, select [Other] and type in the appropriate country code (see last page).
Ratings	 Assign a ranking to disallow the viewing of some scenes [1-7] or the entire DVD video disc [0] and specify a password to guard access to the disc contents. This feature is not supported by all DVD video discs. Type in a 4-digit code using the numeric key pad of your remote control unit, then press ENTER to confirm it. Press ◀ or CANCEL to delete any mistakes A closed padlock icon is displayed while this feature is enabled. Make sure not to forget your password code. To change the setting Enter your password code and press ENTER to confirm. Change the setting as appropriate and press ENTER to confirm.

Menu Video **TV Aspect** Sets the aspect ratio to 16:9 or 4:3 (Pan&Scan/Letterbox). 11 **TV** Type Selects the connected type of TV set. When using an audio amplifier together with a plasma TV or a digital TV, the picture can be delayed in relation to the sound signal. You can **Time Delay** synchronize the picture signal with the sound using the Time Delay setting. **AV Output** Selects the video signal from the scart socket (Video, S-Video, RGB). Select a picture quality for still image mode: Automatic: The unit selects the optically better type of image. Still Mode Field: Poorer quality than a picture frame. Frame: Although the image may be somewhat fuzzy, its quality is better than that of a field-based still image. To play a NTSC disc, select a colour rendition standard (NTSC/PAL60) NTSC Disc Output that matches the function of your TV set.

SETUP menus

Dolby Digital / DTS Digital Surround / MPEG: Please choose the correct settings matching your audio system:

	Your equipment can not decode the signal	Your equipment can decode the signal
Dolby Digital	PCM	Bitstream
DTS Digital Surround	PCM	Bitstream
MPEG	PCM	Bitstream

Menu Audio		
PCM Digital Output	PCM is the standard method used to record digital music signals on Audio CDs. For reasons of copyright protection, the digital output of PCM audio signals may be limited to 48 kHz/16 bit. Choose [Up to 48 kHz] if the digital audio outlet is used to connect your player to an amplifier that only processes sampling frequencies of up to 48 kHz.	
Dolby Digital DTS Digital Surround MPEG	Change the setting to PCM if the connected equipment fails to decode the relevant signal. High noise levels may otherwise damage your ears or the loudspeakers. Adapt the settings to the ratings of your audio system.	
Dynamic Range Compression	Available in the Dolby Digital (DVD) format only. The volume range is compressed by dynamically putting up the level of soft passages and lowering the level of loud passages.	
Audio during Search	Choose to have the sound on or off during the search.	
Menu Display		
Menu Language	Select the language of the appliance's menus as appropriate.	
On-Screen Messages	Select [No] to suppress the display of OSD text.	
Menu Others		
FL Dimmer	You can set the display panel brightness to [Bright], [Dim] or [Automatic]. Choose [Auto] to dim the display panel during playback and restore its full brightness when the function keys are pressed.	
Auto Power Off	On: If no disc is playing, the appliance goes into stand-by mode after approx. 30 minutes.	
HighMAT	Enable: Activates HighMAT playback Disable: Plays HighMAT discs in the MP3/WMA/JPEG format.	
QUICK SETUP	Lets you change the basic settings or your appliance.	
Re-initialize Setting	Resets the appliance to factory defaults. Following reset and initialisation, press SETUP to run the QUICK SETUP utility again.	

Before requesting service

GENERAL	PROBLEMS
The player does not respond to function key commands:	Unable to change the audio track or the subtitle language:
 Certain control operations are not available with some discs. There may be interference caused by lightning or static charge. Press [O/I] to put the player into stand-by mode. Restart the player. 	 You can only choose from the languages actually recorded on the disc. Some discs require you to change the setting via the Disc menu.
Playback does not start after pressing PLAY:	The subtitles are not shown:
 Condensation has accumulated inside the player. Wait for 1 to 2 hours. The player only supports DVDs with regional code 2, ALL or from a group of regional codes containing regional code 2. The disc is dirty or damaged. The disc is in the wrong way round. The label of the disc you wish to play must face up. 	 The disc does not provide any subtitles. You deactivated the display of subtitles. The subtitles are at the wrong position. Move the position of subtitles. The audio track or subtitles do not use the language selected from the menu: The disc does not provide the language you selected.
The remote control unit does not work:	You forgot your password:
 Verify that the batteries are in the right way round (+ and -). Point the RC unit at the front of the appliance. 	 Stop the player and keep pressing player button together with and also together with the screen. This restores all factory defaults. When you are done switch
Unable to change the aspect angle:	off the unit and back on afterwards. Afterwards, display the QUICK SETUP menu to re-initialise
 It depends on the disc whether this function is available. 	the appliance to your preferences.

Before requesting service

SOUND AND PICTURE PROBLEMS	DISPLAYED PROBLEMS
There is no audio output and the sound is distorted:	Message [Disc is incompatible with this player] is displayed:
 Check the connections. Deactivate the Advanced Surround effect. 	 The player cannot play discs of the current format. The disc contains no recorded material.
The loudspeakers emit loud noise:	No messages are output to the screen:
Go to the Setup screen and check the Audio menu settings of [Dolby Digital], [DTS Digital Surround] and [MPEG].	Go to the Setup menu and change Display menu setting [On-Screen Messages] to [On].
The picture is disturbed when searching:	The OSD displays are cut off along their top edge:
This is a technical issue and not indicative of a malfunction.	Check the [TV Aspect] setting.
No picture appears on the screen:	Error code [U 🗆 🗆] or [H 🗆 🗆] appears:
Check the connections.Verify that the correct video input of the TV set has been selected.	 U11: Disc is dirty. Wipe it clean. U15: You inserted a DVD-R that has not been finalized.
The picture is cut off at its left or right edge:	H □ □: This is indicative of a malfunction. The digits following "H"
 Check the Video menu's [TV Aspect] setting on the 24 Setup screen. Check that the player is directly plugged into the TV set's [AV Output] and not to a video cassette recorder between the two units. Check the Zoom setting. 	 depend on what state your player is in. Press O/I to put the player into stand-by mode, then briefly unplug and re-attach the AC mains cable. Contact the aftersales service if this does not remove the problem. Please state the error code displayed by the set.

Information

Title Title Title Disc-Top menu Menu Menu Menu MENU TOP MENU





Plaving DVDs and VCDs

The producer of the programme material can define the way in which the disc is played. Consequently, you may sometimes find that, in some cases, you cannot control the playback the way you wish using all of the functions and operations described in these operating instructions. We therefore recommend that you always read the reference material delivered with the disc. Press **SUBTITLE** to display/quit the track information on TV screen. The player may take some time to read all of the disc information!

DVD menu

Some DVDs have multiple menus. Pressing **TOP MENU** to display the main menu may take to another menu than pressing **MENU** to display the menu screen.

* The functions assigned to these buttons depend on the disc. Please refer to the disc documentation leaflet.

Decoder

This appliance features an internal Dolby Digital decoder and a DTS decoder. You can enjoy these systems in stereo quality without the need of a separate decoder.

Problem caused by a disc

- Do not stick labels on the disc (this might render the disc useless).
- Only use a suitable pen for writing on the disc.
- Do not insert cleaning discs into the appliance.
- Do not play discs with any glue from stickers still on them.
- Do not play cracked discs.
- Do not play warped or irregularly shaped discs.
- First wipe the disc (DVD-RAM / DVD-V / VCD / CD) with a wet cloth, then with a dry cloth.
- If available, use the optional DVD-RAM/PD disc cleaner (LF-K200DCA1) to clean the DVD-RAM / DVD-R.

Do not use clothing or other disc cleaners.

Region codes



This player accesses the regional codes stored on DVDs. It supports all discs assigned regional code "2" or "ALL". **UK and continental Europe: "2".**

Disc forms

Never play anything but circular discs with a diameter of 3" (8 cm) or 5" (12 cm). Discs of other shapes may damage the player hardware.

HighMAT and the HighMAT logo

are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Windows Media and the Windows logo

are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Dolby Digital

Method of encoding digital signals. The signals are very much compressed in the process to enable recordings of large volumes of data.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

DTS (Digital Theater Systems)

Sound system used in cinemas or movie theaters all over the world.

"DTS" and "DTS 2.0 + Digital Surround" are trademarks of Digital Theater Systems, Inc.

MP3 or MPEG 1 Audio Layer 3 is a file compression format used for digital audio files. It provides files of an extremely small size and may cause a consequential loss of quality.

WMA is a file compression format developed by Microsoft. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3. MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

This product features a copyright protection implement whose technology is protected by US patents and intellectual property rights owned by Macrovision Corporation and other copyright proprietors.

The use of this copyright protection implement is subject to permission of Macrovision Corporation and is restricted to purely private use only. It is prohibited to examine this appliance

for the purpose of unlicensed construction.



- * Depending on the disc type and the conditions of recording, the appliance may sometimes fail to play the listed discs.
- * DVD-RAM with JPEG: Recorded with Panasonic DVD-Video recorders. To play JPEG files, select [Play as Data Disc] in DISPLAY menu (page 23).



Designed for

Windows

Media™

Specifications

Power supply:

Power consumption: 9 Watt Power consumption in stand-by: < 1 Watt

Dimensions: Weight: Operating temp. range: Humidity during operation:

Compatible video system: Video output: Output level: Output socket:

Scart output:

RGB output level: Video output level: C output level: Output socket: **Audio output:** Output level: Output sockets:

Audio output signal ratings:

 Frequency response: DVD (linear PCM audio):

Audio-CD:

- Signal-to-noise ratio: Audio-CD:
- Dynamic range: DVD (linear PCM audio): Audio-CD:
- Total harmonic distortion: Audio-CD:

220-240 Volt mains voltage, 50 Hz 9 Watt : < 1 Watt

430(W) x 227(D) x 55(H) mm 1.9 kg +41°F to +95°F(+5°C to +35°C) 5 to 90 % rel. humidity (non-condensing)

PAL 625/50, PAL 525/60, NTSC

1 Vpp (75 Ohm) Female cinch

0.7 Vpp (75 Ohm) 1 Vpp (75 Ohm) PAL/PAL 60 : 0.3 Vpp; NTSC : 0.286 Vpp (75 Ohm) 21-pin AV Scart (S-Video/RGB included)

2 Vrms (1 kHz, 0 dBFs) Female cinch 2 channels / AV Scart 2 channels (L/R)

4 Hz to 22 kHz (sampling frequency 48 kHz) 4 Hz to 44 kHz (sampling frequency 96 kHz) 4 Hz to 20 kHz

115 dB 100 dB

98 dB

- dB dB
- 00 00
- 0.0025 %

- Digital audio output: COAXIAL Female cinch Output socket: Output level: 0.5 Vpp (75 Ohm) Pickup: Wave length: 662 nm / 785 nm Laser classification: CLASS 2 / CLASS 3a Compatible disc formats: DVD-V. DVD-RAM. DVD-R. CD-Audio. CD-R/RW (CD-DA, VCD, SVCD, MP3, WMA, JPEG formated discs). HighMAT Level 2 (Audio and Image). WMA, MP3, JPEG : Max. 4000 tracks/ 400 groups. Compatible compression rate: MP3: 32 - 320 kbps WMA: 48 - 192 kbps .IPFG format : Exif Version 2.1 Baseline files Picture resolution between 320 x 240 and 6144 x 4096: sub sampling: 4:2:2 or 4:2:0
 - Technical specifications subject to change without notice.

Weight and dimensions are approximate values.

Country codes

		1					
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithunian	7684	Slovac	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sundanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali	6678	Hebrew	7387	Nepali	7869	Telugo	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Pashto	8083	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Persian	7065	Tonga	8479
Burmese	7789	Interlingua	7365	Polish	8076	Turkish	8482
Byelorussian	6669	Irish	7165	Portuguese	8084	Turkmen	8475
Cambodian	7577	Italian	7384	Punjabi	8065	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Rom.	8277	Urdu	8582
Corsican	6779	Kannada	7578	Romanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laotian	7679	Serbo-Croat.	8372	Yiddish	7473
Estonia	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian	7686	Sindhi	8368	Zulu	9085

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