Panasonic

DVD/CD Player / Video Cassette Recorder NV-VP30 / NV-VP25

Operating Instructions



Before you connect or adjust any settings, read through the operating instructions.

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Ratings Video Audio Display/Others	38 39 40 41	 This equipment complies with the requirements of protection class 2. This equipment complies with the safety requirements of the VDE. (Geman Association of Electrical Engineers)

Dear customer

Page

Thank you for trusting and purchasing this high-guality product. Panasonic is one of the leading companies of the consumer electronics industry. We are sure that this appliance will meet with all your expectations.

Matsushita Electric Industrial Co., Ltd.

http://www.panasonic.co.ip/global/

Precautions

Voltage:

Only use power sources complying with the specifications (220-240 VAC, 50/60 Hz). You may otherwise overload the unit and cause fire. Do not use DC power sources. Check the source carefully when setting up the unit on a ship or other place where DC is used.

AC mains lead protection:

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock.

Service:

Do not attempt to repair this unit by yourself. If the sound fails, the display is off, smoke escapes from the unit or any other problem occurs that is not described in these operating instructions, disconnect the power supply and contact your dealer or an authorised aftersales service centre.

Inside of product Produktets innside (Norsk)

CAUTION	LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
ATTENTION	 RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VAR0!	 AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注意	- ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLCA0141

Back of product, see page 8.



Warning	NORSK
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.	ADVARSEL: FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.
 CAUTION! 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. 	 ADVARSEL! APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONS- FORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS. APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE. PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET. BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.	DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.
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.	Dette apparatet kan under bruk fange opp høyfrekvente forstyrrelser forårsaket av en mobiltelefon som benyttes i nærheten. Hvis slik forstyrrende påvirkning konstateres, bør mobiltelefonen benyttes på større avstand fra dette apparatet.
CAUTION! 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 YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.	ADVARSEL! DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING. DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

Front Panel



	Device control						
ل/ك	Standby/on switch 아/I		TIMER CHECK	Displays the timer programme for verification.			
VCR	To eject a video cassette.		QUICK ERASE	Erases a video cassette.			
OPEN / CLOSE	Opens and closes the disc tray.		PROG PLAY	Plays back programmed recordings.			
REC CHECK	You will be displayed either the Timer menu or an information on the current recording		MUSIC WITH PICTURE	Playback of an audio CD including video output.			

Description of some function buttons on the front panel is to be found under Remote control functions.

	Display							
Active picture signal. The symbol appears on the VCR or DVD display. Use the VCR/DVD OUTPUT button to switch over the picture signal. To directly change the VCR or DVD output use the VCR/TV/DVD toggle switch in combination with a function button (e.g. PLAY).			Playback					
		Still Playback						
	toggle switch in combination with a function button (e.g. $PLAY \ge$).		Slow Playback					
σ	A video cassette is in.		Forward and backward search					
0	A disc is in.		VCR: Fast winding					

Remote control functions

Some TV sets accept control signals from the VCR/DVD's remote control unit. (Page 43).

TV-Operations							
TV	To switch on and out the TV.	СН	To select the respective TV programme memory location.	ShowView REC CHECK EXT LINK			
AV	Selects the TV set's AV port.	VOLUME	To control TV set volume.				
TV ASPECT	Changes the screen format (e.g. wide-screen).		lo control i v set volume.				
	General Oper	ations					
VCR/DVD	Standby/on switch එ/ I Press to switch the unit from on to standby		Remote control toggle switch For changing between VCR, DVD and TV functions.				
•	mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	INPUT SELECT	AV input select button Toggles between input A1, A2, A3 (front) or dc (DVD).	DIRECT NAVIGATOR			
	OSD menu selection buttons. ENTER: Selects or saves a setting.		To eject the cassette / disc Press STOP ■ for more than 3 seconds.	DISPLAY			
EXIT		CANCEL/RESET	Undoes entries or selections.				
RETURN	Quits a menu.	VCR/DVD OUTPUT	Output signal select button Toggles between VCR and DVD signal (for AV1, VCR/DVD OUT).	AVLIAN SUBTITLE ALD (O ANGLEPAC OFFICIAL COMPANY AND C			
OFF TIMER PLAY MODE TV ASPECT	OFF TIMER: Switches the unit into standby mode after the set time of recording, playback or in Stop mode.		Direct input via numeric buttons (way of input = example: 18= @ @ @)	CANCELRESET I-TIMER SPILPER B CINEMA GROUP			

Panasonic

Remote control functions

VCR-Playback Operations						
	Press PLAY ► to start playback.					
•	 Press STOP ■ to stop recording, playback or winding. 					
III 0>	Still Playback: In Playback mode. Press button again or press PLAY ► to quit					
	Slow Playback: Press for more than 2 seconds while in Playback mode. Press PLAY ► to quit.					
	 Fast winding / Forward and backward search Goes from Stop into Fast Forward or Fast Rewind mode. 					
	 Starts the search for a frame during playback. Press button twice to increase the speed of search (JET SEARCH). Press PLAY ► to quit the Search mode. 					
	The unit keeps searching while the button is pressed.					
	Finds the start of a programme.					

VCR-Recording Operations					
REC	Video recording (page 11)				
ShowView	Displays the menu ShowView (page 15)				
PROG/CHECK	Displays the menu Timer recording (page12)				
TIMER	Activates the recording timer (page 12).				
I-TIMER B	Defines programmes transmitted to the same programme memory location at the same time (page 14).				
SP/LP/EP	Sets the tape speed (page 11).				
VPS/PDC	Controls the beginning and end of a recording session by a special signal (page 13).				
EXT LINK	Activates the recording timer for externally controlled recording (page 16).				
PROG PLAY	Plays back programmed recordings (page 13).				
REC CHECK	You will be displayed either the Timer Recording menu or an information on the current recording.				

	VCR-General Operations					
DISPLAY	Press the button repeatedly to display the time, tape counter or remaining tape.		CANCEL/RESET	CANCEL: Clears an entry you made. RESET : Resets the counter to 0:00.00.		
	Toggles between TV reception and video playback channel.			At each press of the button, the selected sound output is indicated		
			AUDIO	Stereo: Display L R Left channel: Display L -		
MENU	Displays the main menu.			Right channel: Display - R Mono: Display		

VOD O

	DVD-Playback Operations						
° ×	 Press PLAY ► to start playback. 		ПФ	Still Playback			
	 Press STOP ■ two times to stop playback. 			Slow motion playback forwards or backwards in pause made. The speed of elementary hereback will increase in 5 steps			
	 Resume function This function allows you to interrupt the playback of a disc. STOP ■ during playback stores the current position on the disc. PLAY ▶ while " ▷ " is flashing on the display. Playback will be resumed at the point where you stopped it. 			 mode. The speed of slow playback will increase in 5 steps while the relevant button keeps being pressed. Search function during playback. The speed of the search function will increase in 5 steps while the relevant button keeps being pressed. PLAY ▶ resumes playback at normal speed. * VCDs do not support reverse slow motion playback. 			
	 To cancel the Resume function Open the disc tray		POSITION MEMORY	Resumes playback following an interruption (page 26).			
	* The resume function is available only if the disc runtime is displayed during playback.			To skip chapters, titles or frames during playback or in pause mode.			

	DVD-Operations							
ZOOM	Zoom function during playback (page 28).	QUICK REPLAY	Scene replay during playback. Pressing the button will replay a					
PLAY MODE TV ASPECT	PLAY MODE: Random play/Programme play (page 27).		couple of seconds of the current track or programme; on a JPEG disc it will take you back a couple of pictures.					
AUDIO	Changes the audio track (page 37).	BCINEMA	Enhances the contrast of the picture (page 36).					
DISPLAY	Enables the on-screen display (page 34).	GROUP	On-screen display of groups of titles (page 34).					
TOP MENU	Displays the main menu of a DVD (page 42).		Displays the SETUP menu (basic DVD player settings, page 25).					
MENU	Enables the Menu-display of a disc.	SETUP REPEAT						
RETURN	Quits a menu.		Repeat function (page28)					
AV LINK/SUBTITLE	Selects the language of subtitles (page 37).	ANGLE/PAGE	Chooses from various camera angles; turns menu pages.					

For some disc formats not all of the described DVD functions are available.

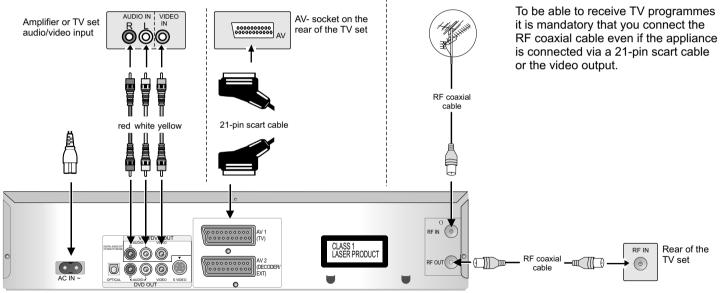
Connections

Connection to a TV set with or without a scart socket or to an amplifier component (home cinema)

- Read the operating instructions of your TV set or amplifier.
- Connect the cables as shown on the illustrations. Make sure not to confuse the colours or labels.
- · When the unit is fully connected plug the AC mains

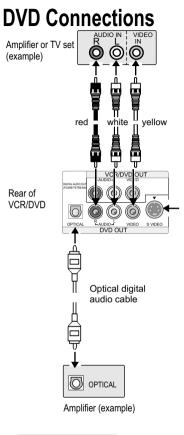
The VCR/DVD audio/video output or AV1 scart socket are to be used for connection of the unit to the TV set.

Use the RF aerial socket to connect the unit to the TV set.



Note on all connections shown

Connect the unit directly to the TV set. If you let the unit connection go through a video recorder you will experience a disturbed picture when playing copy-protected DVDs. To avoid sound quality problems, deactivate function Advanced Surround when you connect an amplifier with Dolby Pro Logic functionality (page 36).



Push in the jack all the way into the socket with this side facing up.



Direct DVD audio/video output

Independently of the VCR/DVD sockets you can connect all DVD sockets to a respective external unit.

A disc is played by the DVD player using the DVD OUT sockets. At the same time the video recorder is able to record or play back another programme.

- Connect the analogue audio output (L/white and R/red) with a "Dolby Pro Logic amplifier". for example.
- To avoid sound quality problems, deactivate function Advanced Surround when you connect an amplifier with Dolby Pro Logic functionality (page 36).

S-VIDEO output

Connecting the video recorder to the TV set with the S-VIDEO socket results in a higher picture quality compared to the connection via VIDEO OUT socket (only for DVD OUT).

S-VIDEO IN Amplifier or TV set S-Video - S-Video (example)

Digital connectors (OPTICAL)

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 (OPTICAL) with an external "Multi-channel Dolby Digital Decoder". for example.

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 recordings from MP3/WMA originals.

Adapt the settings of SETUP menu Audio (see page 40) to the following:

- PCM Down Conversion : Yes
- Dolby Digital : PCM
- DTS Digital Surround : PCM : PCM
- MPEG

Deactivate function Advanced Surround (see page 36).

VCR AUTO SETUP

		. • .	
Country			
Belgien Belgique België Danmark España Ελλάδα France	Italia Nederland Norge Österreich Deutschland Portugal Suomi	Sverige Schweiz Suisse Svizzera others	ENTER
+ : select	BITER : acces	SS	

DVD QUICK SETUP must follow the VCR AUTO SETUP for the DVD player (page 25).

Clock se	i i
MANUAL	
Time Date	: 12 : 00 : 00 : 11. 6. 03

VCR AUTO SETUP with connection of a 21-pin scart cable

- Switch on the TV set.
- Select VCR of the VCR/TV/DVD switch.
- · Press the Standby/On button to switch on the VCR/DVD player.
- The Country menu will be displayed.
- Use the arrow keys ◀►▲▼ to select your country.
- Press ENTER to confirm.

The VCR starts the automatic tuning. (The search will take approx. 5 min. to be completed)

* If the Country menu does not appear after switching on you can manually restart Automatic Tuning (page 20).

VCR AUTO SETUP with connection via the RF coaxial cable

If you decide to just use the RF coaxial cable to connect the TV set you must adjust the video output channel with the TV set's input channel.

- Switch on the TV set.
- Select VCR of the VCR/TV/DVD switch.
- Press the Standby/on button to switch on the VCR/DVD player.
- Press the **MENU** button for approx. 7 seconds. The preset channel appears on the display.
- Tune the TV set until the test pattern appears. If there is any interference select another channel for the TV set and VCR/DVD player.
- Press the **CH** button to change the channel (e.g. to channel 39).
- Сн

- Tune the TV set until the test pattern appears.
- Press ENTER to confirm.

If the clock setting menu appears

Normally date and time are set due to programme transmission. Otherwise you have to manually set date and time.

- Use ▲▼ ◀▶ or ① ② ③…① to enter Time and Date, ENTER will store the information.
- * Mind that a wrong date or time will influence the programmed recording of TV programmes (don't forget to change to DST and back).

Recording

AV-channels A1:Scart input AV1 A2:Scart input AV2 A3:Front input AV3 dc: DVD (disc intern)



VCR . UVD

 \square

Set the TV set to the video channel and insert a cassette into the video recorder: make sure that the cassette's protection tab is still in.

- · Select a channel to record from
- Select the AV channel if you are recording via the 21-pin scart cable.
- Press REC to start recording.
- Press the Stop button to stop recording.
- To pause recording: ■/>
- To resume recording:





SP/LP/EP

C

Tape Remain counter/indicator

The VCR display shows: time - counter - tape remain.

· Press OSD/DISPLAY until 'REMAIN' is displayed.



- Prior to starting the recording session, press SP/LP/EP to set the tape speed. SP: normal recording time
 - **LP**: double recording time
- optimal picture quality
- simple picture quality
- **EP** : triple recording time
- reduced picture quality
- * When you play back LP or EP recordings, some cassettes (e.g. E-300 type) may produce interference. This is not indicative of a malfunction.

Timer recording



Timer recording 1 / 3						
Pos	Date	Start	Stop	00	VPS PDC	
1 ARD	31/12	10:30	11:30	SP	ON	
1 ARD	31/12	11:30	12:30	SP	ON	
2 ZDF	31/12	12:30	13:30	SP	ON	
4 RTL	31/12	13:30	14:30	SP	ON	
6 VOX	31/12	14:30	15:30	SP	ON	
	/	:	:	SP		
+ :select ENTER :store						
CANCEL : de	elete	EXIT : ex	it			



The Timer recording allows you to programme the recording time of TV programmes up to 1 month in advance. Use the on-screen menu to programme a maximum of 16 recordings.

- Press **PROG/CHECK** to select an available memory location ▲▼.
- Press ENTER to confirm
- First select the respective station ▲▼, then use ▶ to set date, week or day of week ▲▼.
- Enter start and stop time ▲▼, ► Keep the buttons pressed to change the time in 30-minute steps.
- Set the tape speed: A (Automatic), SP, LP, EP ▲▼, ▶
 Press ▲▼ or the VPS/PDC button to change the VPS/PDC setting
- Press ENTER to save the timer programme.
- Repeat these steps for further recordings you may wish to programme.
- Press **TIMER** to activate the recorder's timer mode. Ensure that the VCR symbol ☉ is displayed.
- * Do not forget to verify that there is enough tape remain. The length of the recording must not exceed the time remain on the video cassette.

Quitting the timer mode

• Press TIMER, the VCR symbol ⊕ turns off.

You can now play back a cassette or make a manual recording.

• Press TIMER again to reactivate the timer programme you entered previously.



TIMER

4

PROG/CHECK

TIMER

Displays the timer programmes for verifications (button on the unit only) Repeatedly press the button to view the details of the timer programmes on the VCR display.

Timer recording



Automatic SP/LP selection

- A: If, at the beginning of a timer programme, there is not enough tape remain to complete it, the SP/LP function will automatically run the tape at LP speed. This ensures that the entire programme will be recorded. If the LP mode is not enough to 'stretch' the remaining tape to fit you will not be able to record all of the TV programmes.
- * It is not possible to automatically activate the EP mode.

VPS/PDC function

If start or ending time of a programme are changed, this function synchronises the beginning and the end of the recording session with the actual beginning and end of the TV programme by a VPS signal of the respective station.

- **ON**: The station transmits VPS/PDC signals. You must set the timer to the time specified in the TV magazines. Use the special VPS time the TV magazine may indicate.
- - -: The station does not transmit VPS/PDC signals. Try to set the start and stop times such that the entire film can be recorded even if a programme begins or ends earlier or later than planned.



Checking the timer programme

- Press PROG/CHECK, the Timer recording menu will appear.
- Press PROG/CHECK again or EXIT to quit the menu.

Changing or cancelling a timer programme

- Press PROG/CHECK to display the Timer recording menu.
- Press AV to select the entry you wish to edit, press ENTER to confirm.
- Change the entries **I AV**, press **ENTER** to confirm.
- Press CANCEL/RESET to cancel the timer programme.



Playing back programmed recordings

The unit will rewind to the beginning of the programmed recording and automatically start playing it back.

* You can also play back programmed recordings manually.

INTELLIGENT TIMER



I-TIMER

В

INTELLIGENT TIMER 25/10/03						
Pos	Date	Start	Stop	00	VPS PDC	
1 AR	D 25/10	10:30	11:30	SP	ON	
1 AR	D 25/10	18:30	19:30	SP	OFF	
₿2 ZD	F 25/10	12:30	13:30	А	ON	
♦ LTMER: select TMER : store EMTER : edit ◀: unlock ▶ : lock						
	delete (

Timer rec	ording				1/3
Pos	Date	Start	Stop	00	VPS PDC
1 ARD 1 ARD 	26/10 26/10 / / / /		11:30 19:30 		
◆ : selec (CANCEL) : de		ENTER : S ENTT : E	tore exit		

This function makes it easier for you to time the recording of programmes transmitted by the same station at the same time but on different days. You can fully modify the programmes once they have been transferred to the Timer recording menu. The INTELLIGENT TIMER menu lists the information of the last 5 timer programmes. To use the INTELLIGENT TIMER function you must first programme at least one normal timer programme.

Accept already saved recording time

- Press I-TIMER.
- Press **A** or **I-TIMER** to select a programme.
- Press TIMER to activate the timer mode.

Editing a programme

- Press I-TIMER.
- Press AV or I-TIMER to select a programme.
- Press ENTER to display the Timer recording screen.
- To change any of the data press ◀▶▲▼.
- Press ENTER to store a change.
- Press TIMER to activate the timer mode.

Protection of I-Timer programmes

The timer programme function is able to store 5 entries at a time. Each further timer programming will delete the oldest timer setting from the memory.

- Select an entry ▲▼.
- Press ▶ to protect the specific entry. The symbol 🗄 is displayed.
- To unprotect the data press ◀. The symbol ¹/_• disappears from the display.

ShowView

ShowView	
83542	ShowView
0-9 : enter Imm: : access ◀ : correct Imm: : exit	



Timer recording						
Pos	Date	Start 3	Stop 🖸	סכ	VPS PDC	
1 ARD 1 ARD 2 ZDF 	31/12 31/12 31/12 / /	11:30	11:30 12:30 13:30 : :	ŠP	ON	
	♦ :select BITER : access CANCEL : delete EUT : exit					



TIMER

Using ShowView for timer programming

With the ShowView code you can easily programme TV and SAT station recordings.

- Press the ShowView button
- ENTER confirms your entry.

The Timer recording screen is displayed.

If the unit fails to automatically detect the station press AV. The video recorder will store the information so that you will not have to enter it again later.

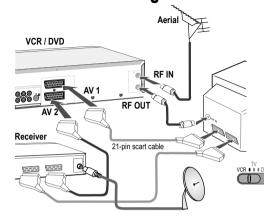
Activate the Timer recording function

• Press **TIMER** to activate the timer mode. The symbol *⊙* appears on the VCR display.

Editing a programme

- Press ENTER to alter the timer data.
- Select a station ▲▼, ▶
- Set the date, week or day of week ▲▼, ▶
- Enter the start time: ▲▼, ▶
- Enter the stop time : ▲▼, ▶
- Set the tape speed: A (Automatic), SP, LP, EP ▲▼, ▶
 Press ▲▼ or the VPS/PDC button to change the VPS/PDC setting
- Press ENTER to store a change.
- Press **TIMER** to activate the timer mode. The symbol *O* appears on the VCR display.
- * ShowView is a trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

External recording control



Others		2/2
Remote EXT LINK	: VCR 1 : 2	
, aglast		
÷ : select	EMT : exit	

The AV2 input of this VCR is equipped for future use with external equipment having external timer recording control such as digital satellite receivers. The AV2 input can be set to EXT LINK 1 or EXT LINK 2 depending on the equipment to be connected. Fully wired 21-pin scart cable is required. Refer also to the manufacturer's instruction for the external unit.

- **EXT LINK 2:** The VCR will start recording when AV2 input detects the video signal and stop recording when the video signal is switched off by the external unit.
- **EXT LINK 1:** The VCR recording start and stop time is controlled by a control signal sent via the 21-pin scart cable from the external unit, e.g. the F.U.N. receiver (TU-DSF31).

External recording control

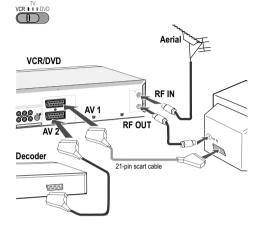
- Press MENU and select Others ▼
- Press ENTER
- Select EXT LINK 2 or 1
- Press MENU to return to the Menu screen.
- Press the EXT LINK button to activate the VCR's recording standby mode. As long as the Video- or Controlsignal is being transmitted by the Satellite or Digital Receiver, the VCR will record.

The following screen will be shown if you selected EXT LINK 2:

EXT LINK rec	ording in progress.
ENTER : yes	EXT LINK :cancel

- Press **ENTER** to hide the message.
- Press the EXT LINK button to stop recording.
- * Be sure that the timer programmes stored by your VCR do not overlap the ones of the satellite or digital receiver.
- * Some external equipment may not work with this function, refer to the operating instructions for the external unit.

External units



Connecting a decoder

A decoder is used to decode particular TV programmes (e.g. those of pay TV stations). Use a 21-pin scart cable to connect the decoder to the unit's AV2 socket.

Setting the channel to Decoder

- Press MENU.
- Select Tuning **AV**, press **ENTER** to confirm.
- Press ENTER to select Manual.
- Select the coded channel ▲▼ press ENTER to confirm.
- Choose Decoder AV.
- Set Decoder to ON ◄►. (Interferences of the background picture vanish)
- Press EXIT to quit the menu.
- * AV2 must be preset to DECODER (page 21).



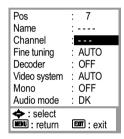
Connecting to AV3

- Connect your external unit (e.g. a video camcorder) with the front input.
- Just seize the L/Mono port for mono recording of the audio signal.
- Select A3 with AV INPUT SELECT.



Manual SETUP

Tunii	ng				
Pos	Name	Ch	Pos	Name	Ch
1	ARD	7	6	VOX	8
2	ZDF	4	7		
3	N3	2	8		
4	RTL	12	9		
5	SAT1	13	10		
Α	delete	В	: mo\	/e	
 🔶 :	select	BITE	R:aco	cess	
NENU):	return	EXIT	: exit		



99 different programme memory locations are available for TV station reception. You can manually set these programme memory locations including the option to rename them.

Manual Tuning

- Press MENU
- Select Tuning AV, press ENTER to confirm.
- Select Manual AV, press ENTER to confirm.
- Select a free line down the list **I** press **ENTER** to confirm.
- Pressing
 starts the channel tuning. You can also make use of the numeric buttons to select the respective channel.
 Wait until the desired station has been set.
- Press MENU to return to the station table.
- * If you used the timer function ShowView for timer programming before manually setting a TV station, the TV station chosen might be referred to as [-].

Options available for fine-tuning the channels

(Not every model supports all of the functions.)

Pos		Station position setting.		
Name		Station name setting.		
Channel		Channel setting.		
Fine tuning	AUTO / MAN.	Fine-tuning of disturbed picture.		
Decoder	ON / OFF	For reception of coded channels		
Video System	AUTO / PAL / MESECAM	TV system set-up.		
Mono	ON / OFF	Stereo-to-mono toggle.		
Audio mode	BG / DK / I	Audio system set-up		

Manual SETUP

T	uni	ng					
Ρ	os	Name	Ch	Pos	Name	Ch	
	1	ARD	7	6	VOX	8	
	2	ZDF	4	7	PR07	95	
	3	N3	2	8	RTL2	85	
	4	RTL	12	9	KABE	97	
	5	SAT1	13	10	S-RT	98	
	_				_		J
	Pr)S		1			

Pos	: 1
Name	ARD
Channel	: 7
Fine tuning	: AUTO
Decoder	: OFF
Video system	: AUTO
Mono	: OFF
Audio mode	: DK

Tuning					
Pos	Name	Ch	Pos	Name	Ch
3 4	ARD ZDF N3 RTL SAT1	7 4 2 12 13	7 8 9	VOX PRO7 RTL2 KABE S-RT	8 95 85 97 98
	: delete : move return	B Br Exr		ve ore	

Changing the name of TV stations

- Press MENU
- Select Tuning **AV**, press **ENTER** to confirm.
- Select Manual AV, press ENTER to confirm.
- Select a TV station ◀▶▲▼ , press ENTER to confirm.
- Select the Name entry ◀▶.
 The cursor will mark the first letter ▲RD.
- Change that letter AT
- Next letter ▶, ARD
- Press MENU

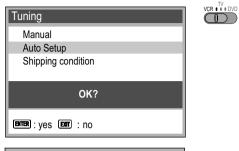
The new name will be stored in the station table.

Changing the order of TV stations or deleting a station

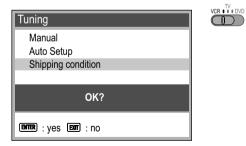
Press MENU

- Select Tuning ▲▼, press ENTER to confirm.
- Press ENTER to select Manual.
- Select a station ◀▶▲▼.
- Press 💷 , an arrow at the left edge indicates which field has been selected.
- You can now move the station to any other location <> AV.
- Press ENTER to store.
- Press 🚺 to delete the station.

Manual SETUP



Auto Setup		
Country Tuning	: others : Ch 1	



Restart Auto SETUP

- Press MENU
- Select Tuning ▲▼, press ENTER to confirm.
- Select Auto Setup ▲▼, press ENTER to confirm.
- Pressing ENTER will confirm the security prompt.

The Country menu will be displayed.

• Select a country **◄►▲▼** press **ENTER** to confirm.

The Auto Setup menu will be displayed. The Automatic Tuning will start.

Shipping condition / restoring factory defaults

- Press MENU
- Select Tuning **AV**, press **ENTER** to confirm.
- Select Shipping condition ▲▼, press ENTER to confirm.
- Pressing **ENTER** will confirm the security prompt.
- * To restore the factory defaults (shipping condition) briefly unplug the AC Mains lead.

Menu Others



- Press MENU
- Select Others ▲▼
- Confirm with ENTER
- Select the Menu item ▲▼
- Changes with
- Press **MENU** to quit the menu.

Others	1/2
Tape length AV2 TV system SQPB OSD VCR/DVD OUTPUT RFC system	: AUTO(◀E-240) : DECODER : AUTO : AUTO : 4:3 : AUTO : DK
◆ : select ■■■ : return ■■ : (exit

(Not every model supports all of the functions.)

Press A to display the 2nd screen.

Others		2/2
Remote EXT LINK	: VCR 1 : 2	

Tape length	Sets the tape length of the cassette you use. AUTO (◀ E - 240), E - 195, E - 260, E - 300)			
AV2	Selects the type of external unit connected to the VCR/DVD's AV2 outlet.			
	DECODEI EXT	R: If a decoder is connected. : If another video recorder or satellite receiver is connected.		
TV system	AUTO PAL MESECAN	: Automatically detects PAL or MESECAM. : If you are using the PAL system. I : If you are using the MESECAM system.		
SQPB	SQPB AUTO ON OFF : The VCR automatically detects the type of record : Plays back S-VHS format cassettes in quasi S-VH : Plays back cassettes recorded in VHS format on			
OSD 4:3 WIDE OFF		 Displays appear at the edge of the screen (displays not visible on 16:9 format screens). Displays appear at the edge of the screen (displays appear in the middle on 4:3 format screens). No on-screen displays 		
AUTO		 When you press a function button the unit will activate the relevant video or DVD output, depending on the setting of the VCR/TV/DVD switch. Press the VCR/DVD OUTPUT button to manually toggle between the video and DVD outputs. 		
RFC system	BG / DK /	I: Sets the audio standard of RF-Converter output.		

Remote	You can set both the unit and the remote control unit to another frequence by choosing VCR1 or VCR2 from the menu. Press and hold remote control unit buttons ENTER and (a) or (a) to set the frequency channel of the relevant unit.		
EXT LINK	 2 : External recording control by satellite receivers or digital receivers (video signal). 1 : For digital receivers transmitting a special recording control signal, e.g. the F.U.N. receiver (TU-DSF31). 		

Clock set

Clock set	
MANUAL	
Time Date	: 12 : 00 : 00 : 11. 6. 03

Menu language



VCR . DVD

The language set for the Video menu does not depend on the DVD SETUP menu language

Date and time are usually set by a TV station transmitting the relevant signal. Otherwise

Press MENU

Press MENU

Select Language ▲▼ ◀▶

• Press ENTER to store

• Press EXIT to quit the Menu screen

• Press EXIT to guit the menu screen

you have to manually set date and time.

Select Clock set ▲▼, press ENTER to confirm
Select MANUAL, press ENTER to confirm
Set Time/Date with ▲▼ ◀▶ or ④ ② ③…①

NICAM sound system

Tuning					
Pos	Name	Ch	Pos	Name	Ch
34	ARD ZDF N3 RTL SAT1	7 4 2 12 13	6 7 8 9 10		8 95 85 97 98
•	: delete : select return	B: move BATER : access EDT : exit			



This unit can receive programmes transmitted together with NICAM sound. NICAM is a digital sound system featuring two audio channels that can be set to either two-channel stereo sound or two separate mono channels (M1 and M2).

- Press MENU
- Select Tuning ▼, press ENTER to confirm
- Select Manual, press ENTER to confirm
- Select the channel **◄►▲▼**, press **ENTER** to confirm
- Mono to ON or OFF ◀▶

	_	
Pos	:	1
Name	:	ARD
Channel	:	7
Fine tuning	:	AUTO
Decoder	:	OFF
Video system	:	PAL
Mono	:	OFF
Audio mode	:	BG

- OFF: Records stereo sound.
- **ON**: Used during NICAM programmes to record normal (mono) sound on the Hi-Fi audio tracks or if the stereo sound is bad.

General functions





Repeat playback

The video recorder repeats playback from beginning to the end of the recording

- In Stop or Playback mode, press the PLAY ▶ button for approx. 5 seconds. "R" will briefly appear on the on-screen display.
- Press **Stop** to stop playing back.



Finding the start of a recording

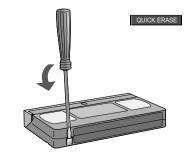
Quickly finds the start of a recording during playback or in Stop mode.

- ► Fast forward / ► Rewind Every time you press the button (max. 20 times) the video recorder will find the start of the next recording. Playback will start automatically.
- Press **Stop** to exit the Search function.

Tape counter

To reset the tape counter time to "0:00.00".

- The tape counter will be automatically reset to "0:00.00" when you insert a video cassette.
- Or you can press the **RESET** button on the remote control unit to manually reset the tape counter to "0:00.00".



Erasing a cassette

Press and hold the **QUICK ERASE** button for a couple of seconds to remove all recordings from a cassette.

It takes approx. 30 minutes to erase an E-180 cassette. Erasing avoids problems that may occur at the beginning and end of a recording taken straight over an existing one.

Cassette erasure protection

Break out the erasure protection tab to protect the cassette against accidental erasure of recordings you wish to keep. Stick adhesive tape over the gap if you wish to re-record a protected cassette.







General functions



Limiting the recording and playback time

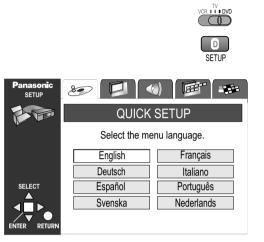
Switches the unit into standby mode after the set time of recording, playback or in Stop mode

Press OFF TIMER

Press the button repeatedly to extend the switch-off time from 30 to 60, 120, 180 or 240 minutes. The timer setting appears on the VCR display.

Auto Stop To protect the video heads, the unit automatically quits		
the Forward/Backward Search, JET SEARCH, Still Playback and Slow Playback functions after 5-10 minutes. Interference and motor noise are not indicative of a malfunction.		
S-VHS cassette playback		
 (SQPB=S-VHS Quasi Playback) You can play cassettes that were recorded on a S-VHS VCF The quality of the picture will be that of a VHS recording. You cannot make S-VHS recordings on this VCR 		
CVC Super - Crystal View Control Super The CVC function provides a picture of perfect quality. The picture is automatically rendered as clear and sharp as possible.		
Automatic switch-off after eject If the VCR is in standby mode, you can press the EJECT button to remove the cassette. The VCR will return to standby mode		

DVD QUICK SETUP



QUICK SETUP

VCR AUTO SETUP must follow the DVD QUICK SETUP.

- Set the VCR/TV/DVD switch to DVD.
- Press the SETUP button to display the QUICK SETUP menu which allows you to make some basic settings.

Navigate the user-friendly and clearly arranged on-screen menu by means of the cursor keys $\triangleleft \triangleright \lor \blacktriangle$ on the remote control unit. Every menu item provides further information on the options you have.

- ENTER accepts your selection.
- **RETURN** takes you back to the previous on-screen menu.

First of all, choose the menu language.

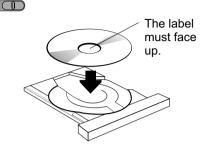
Select the audio/subtitle language

If the language you want is not on the list, go to item "Other" and type in the appropriate language code (last page) using the numeric key pad of your remote control unit.

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.

General playback



Position memorized 🔵 🏾 🗨 🗨 🗨

Position cleared • • • • •

Playback

- OPEN/CLOSE ▲ opens the disc tray.
- Place the disc on the disc tray.
- **PLAY** ► closes the disc tray and automatically starts playing back the disc. The player may take some time to read all of the disc information!
- * MP3, WMA, CD-Text : outputs some track information to the TV screen.
- SUBTITLE to display/quit the track information on TV screen.

To pause playback

- **PAUSE III** during playback.
- **PLAY** ► resumes playback.

Frame-by-frame

To stop playback

• **STOP** ■ twice one after the other. See page 7 "Resume function"

DVD-V DVD-A RAM VCD CD MP3 WMA JPEG HighMAT

DVD-V DVD-A RAM VCD

In pause mode, press remote control buttons ◀►. 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 use button II to move the film forward a single frame at a time.

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

POSITION MEMORY

DVD-V DVD-A RAM VCD CD MP3 WMA JPEG HighMAT

Using the **Position Memory** function playback will be resumed at a stored position. The position tag is retained when you change discs or when the unit goes into standby mode. You can tag and directly access up to 5 discs. This function is available only if the elapsed playback time is displayed when playing the disc.

- **POSITION MEMORY** during playback.
- The "Position memorized" box will be displayed.
- You can now press 😃 to go into standby mode or change discs.
- **PLAY** ► to replay the disc again. Playback will be resumed at the stored position and the position tag will be cleared.
- * Some discs do not fully support all of this function.

26

General playback





Chapter review

The first couple of seconds of every chapter of a DVD-V are played back.

- **STOP** during playback.
- **PLAY** ►. The screen "Press PLAY to Chapter Review" is displayed.
- **PLAY** ►. The first couple of seconds of every chapter are played back. Normal playback will be resumed at the point where you stopped it.

Random playback

DVD-V DVD-A VCD CD MP3 HighMAT

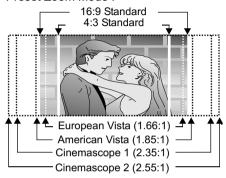
Plays all chapters/tracks once each in a random order.

- PLAY MODE in Stop mode. The "PROGRAM" screen is displayed.
- Press PLAY MODE again to display the "Random Playback" screen.
- * DVD-V/ DVD-A : Press ▼▲ or the numeric keys of the remote control unit to select or specify the title/group to be played in a random order.
- **PLAY** ► to start random playback.
- PLAY MODE in Stop mode to cancel the random play function
- * If you wish to use this function with HighMAT discs, you have to deactivate HighMAT in the SETUP menu. Then insert your HighMAT disc (page 33).

DVD-V

General playback

Preset Zoom Mode :











ZOOM function

DVD-V DVD-A RAM VCD

This function allows you to zoom into the picture to make better use of the available screen space.

• **ZOOM** during playback.

Press $\forall \blacktriangle$ to set the zoom factor; to select a zoom mode: **ENTER** and $\triangleleft \triangleright$.

To restore the original ratio

• **ZOOM** until x 1.00 is displayed.

The original ratio is also restored by opening the disc tray or when the unit goes into standby mode.

* The zoom functionality may be restricted depending on the disc format.

REPEAT

DVD-V DVD-A RAM VCD CD MP3 WMA JPEG HighMAT

• REPEAT during playback. Repeatedly press the button to browse the settings as follows:

DVD-V DVD-A RAM	4 4 4 4 4 4	Chapter Track Program Scene		Title Group All Playlist	+ + +	Off Off Off Off
VCD/CD MP3/WMA JPEG HighMAT) 4 4 4 4	Track Track Group Content	h+++	All Group Off Group	${\rightarrow}$	Off Off Off

* The repeat function is available only if the elapsed time is displayed during playback. There is no mode that allows you to repeatedly play back entire DVD, WMA, JPEG or MP3 discs.

Repeating a VCD using playback control (PBC)

- STOP during playback until "PBC" disappears from the display.
- Type in the number of the CD track using the RC unit's numeric key pad.
- REPEAT. The display shows "TRACK REPEAT" or "ALL REPEAT".

VCR DVD

Synchronous recording



DVD-V DVD-A RAM VCD CD MP3 WMA JPEG HighMAT

How to copy a non copy-protected disc to VHS type cassette.

- Use **PLAY** ▶ and **II**/**I** to select the disc's starting position.
- Set dc channel with AV INPUT SELECT.
- Use ◀◀ ▶▶, PLAY ▶ and II/I> to define the starting position for tape recording.
- Press **REC** to activate the recorder's recording standby mode.
- **II**/**)** starts synchronous recording.
- * Playing back music, NTSC formatted films or copy-protected discs might result in interferences.

MUSIC with **PICTURE**

MUSIC with PICTURE

DVD-V DVD-A RAM VCD CD MP3 HighMAT

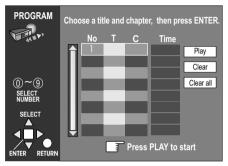
It is possible to simultaneously use the DVD player for playing back a music disc and presenting video pictures.

- Set the VCR/TV/DVD switch to DVD.
- Press PLAY ▶ to start music disc playback.
- Press MUSIC w/ PICTURE The VCR output is displayed.
- You can input a signal from external source (e.g. dig. camera) or use the **CH** button to select the respective TV channel.
- To playback a video cassette set the VCR/TV/DVD switch to VCR and press PLAY ▶.



• To quit press MUSIC w/ PICTURE in stop mode.

Programme play



If you wish to use this function with HighMAT discs, you have to deactivate HighMAT in the SETUP menu. Then insert your HighMAT disc (page 33).

Programme play

DVD-V DVD-A VCD CD MP3 WMA HighMAT

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

- PLAY MODE in stop mode until the "PROGRAM" screen appears.
- Type in the numbers using the RC unit's numeric key pad.
- * MP3 and WMA : Press ENTER to confirm your selection.
- **PLAY •**. Playback will start in the programmed order.
- * Certain discs may not provide this function.

To select a number using the cursor keys:

- ENTER.
- To select an item press ▼▲.
- ENTER to store that number.
- PLAY ▶. Playback will start in the programmed order.

To modify entries

- To select an entry press ▼▲.
- ENTER.
- Modify the entry as appropriate.

• ENTER to store the modified entry.

To quit the programme play mode

To delete entries

- To select an entry press ▼▲.
- · Choose "Clear".
- Select "Clear all" to clear all entries.
- ENTER accepts your selection.
- **PLAY MODE** in stop mode until the programme play screen disappears. The actual programme will be retained.
- * Switching off the player or opening the disc tray will clear the programme.

DVD-V DVD-A RAM VCD CD MP3 WMA JPEG HighMAT

Playing back a particular track or title

Type in a number using the RC unit's numeric key pad. For example, to select title 23: DVD/RAM/VCD/CD : Press (2 + 2 + 3).

MP3/WMA/JPEG/HighMAT : Press **2** + **3** + **ENTER**.

The unit will automatically start playing the selected track or title.

* Certain discs may not provide this function at all or only if the appliance is in stop mode.



JPEG ALBUM	Group : 021112-1620 Picture : Flower
G 1 P 2 Total 2	 3
0~9 SELECT NUMBER	4 5 6
	7 8 9
ENTER RETURN	Prev Tree Next

Your VCR/DVD player can output JPEG pictures (Exif version 2.1) that were taken with a digital camera, for example, or generated by means of any other system. The resolution should range between 320 x 240 pixels and max. 6144 x 4096 pixels. Note that JPEG files must be extended by ".JPG", ".jpg", ".JPEG" or ".jpeg" and compressed in format 4:2:2 or 4:2:0.

- MENU displays the JPEG ALBUM.
- Use the cursor keys ◀▶▼▲ and ENTER to select the pictures.
- Press "Prev" or "Next" and ENTER to page through the album.
- Menu item "Tree" controls the group directory.
- Press **▼**▲**<** ► and **ENTER** to take your pick.
- RETURN or MENU quit the menu screen.

To rotate pictures

- ANGLE/PAGE while the picture is being displayed.
- Press 🚺 to select the direction of rotation.
- Press ENTER to actually rotate the picture to the desired position.
- RETURN quits this menu.

To skip groups

Press ▼▲ in picture mode to skip forwards and backwards.

To activate the JPEG on-screen displays

• **DISPLAY** while pictures are being displayed. The on-screen displays will appear.



· DISPLAY.

The Progress Indicator will be displayed.



Refer to pages 34-36 to learn more about how to use the on-screen displays (OSD).

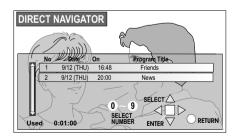
MP3 / WMA MENU





DVD-RAM menu





- **MENU** to display/quit the MENU.
- Press AV and ENTER to select a track.
- Press ▶ to expand the "Tree" (table of contents).
- Press ▲▼ ◀► to select a group, ENTER to confirm your selection.

To search for tracks

• Press **AV** to select the **"Find"** item, then press **ENTER** to display the text box.

MP3 WMA CD-Text

- To enter a word from the track title you are looking for press **AV**.
- Press ENTER after every letter to confirm it. To delete an entry press ◄.
- Upon completion press ► to select "Find" and ENTER to run the function. All entries containing the word you specified are output to the match list.
- Press AV and ENTER to select a track title.
- If there are no matches ("Not found") : press RETURN to change your search entry.
- "Prev"/"Next" browses the album for the previous or next group.

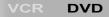
Your DVD player can play DVD-RAM discs recorded in the video recording format, version 1.1, by a DVD video recorder, DVD video camera, computer etc.

- DIRECT NAVIGATOR to display/quit the menu.
- · Only programme names will be shown that were entered when the RAM was produced.
- Select a programme number using the numeric keys or pressing ▲▼. The programme you selected will be played in the background.
- ENTER to confirm the setting and hide the on-screen display.

To output a Playlist

This function allows you to play groups of scenes previously produced by means of a DVD video recorder, for example.

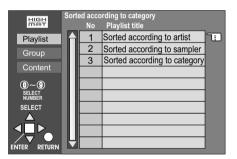
- PLAY LIST to display the PLAY LIST screen.
- Press rule or use the numeric keys to select a Playlist.
- ENTER to start playing the list.
- Press ₩ ▶ skips individual scenes.
- PLAY LIST quits the menu.



HighMAT



PAGE 1/1 ed according tist Sorted according to sampler Sorted according to category





Designed for Windows Media™ HighMAT (High Performance Media Access Technology) is a jointly developed technology of Panasonic and Microsoft. If diverse computer data (WMA, MP3 and/or JPEG) is stored in HighMAT format on one disc, the HighMAT technology makes all of the information easily available for playback via the user-friendly and clearly arranged menu. The HighMAT format is fully compatible to the ISO 9660 Joliet standard.

While the menu is displayed

- Press AV <> to select then press ENTER.

HIGH

Menu: Takes you to the next menu which shows

Play list: play starts

- play lists or another menuPress **TOP MENU** to display the menu.
- Press RETURN to display the previous menu.
- Press DISPLAY. The background changes to the one recorded on the disc.

Selecting from the Playlist

- Press MENU while playing.
- The Playlist appears (indicates the item currently playing).
- Press ◄ then ▲▼ to switch between the Playlist, group and content lists.
- Press ▶ then ▲▼ to select an item and press ENTER.
- To exit the Playlist press MENU.

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MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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On-screen displays

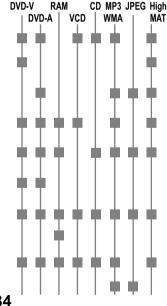


You can display on-screen information on disc and player (OSD) and manipulate various settings. Some DVD- discs do not support all of the settings. Please use the DVD menu instead.

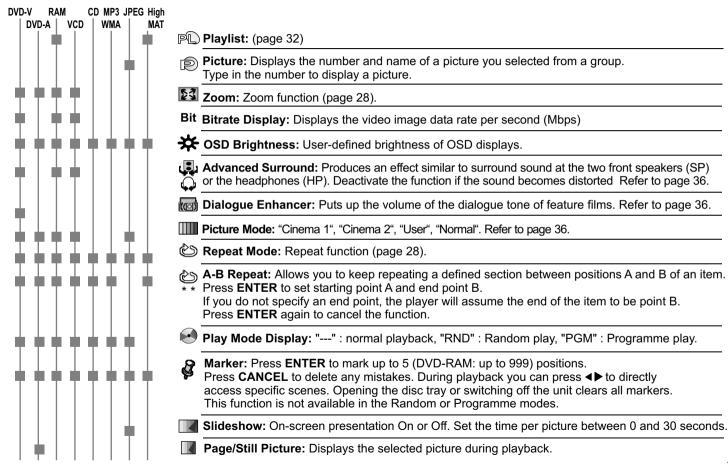
- DISPLAY during playback. Enables the on-screen display feature.
- Use the cursor keys ▼▲ ◀► to make or change various settings.
- Some entries need to be confirmed by pressing ENTER.
- DISPLAY. The Progress Indicator will be displayed.



- Press ◀ ► to change the playback speed (DVD-V: Dolby Digital only).
- Press ▼▲ to display the elapsed and the remaining playback time.
- Press DISPLAY again. Now use the cursor keys ▼▲ to select any of the menu items (Play Menu, Display Menu, Audio Menu, Picture Menu).
- RETURN hides the on-screen displays.
- Title or Track: Allows you direct access to a title/track if the disc hosts several.
- Chapter/Content: Allows you direct access to a chapter if the disc hosts several.
- Group: MP3/WMA or DVD-A tracks or JPEG pictures defined to make up a group. You can also provoke an on-screen display by pressing the **GROUP** button on your remote control unit.
 - **Audio:** Allows you to alter the pre-set language of synchronisation provided the disc gives you an alternative. RAM/VCD: Sets the right or left audio channel.
 - **Subtitle:** Selects the language of subtitles and sets their on-screen position and brightness. JPEG: Picture information; FULL: Displays all information; DATE: Displays the date; OFF: No display.
- Angle: Change between camera angles of films recorded from various camera locations.
- **Bar Position:** You can move the OSD displays around to another place on the TV screen.
- PG Program: Programmes stored on a DVD RAM (page32).
- Time: Display/select playback time (DVD-V,DVD-A,RAM: numeric keys). DVD-V,DVD-A,RAM,VCD, CD: Alternative display of elapsed or remaining playback time. MP3,WMA,SVCD: Playback time only.
- Total: Number of track/picture selected plus total number of items in selection.

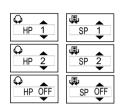


On-screen displays



On-screen displays







Advanced Surround With 2 or more audio channels only

Repeatedly press the button to browse the settings. Press \blacktriangleleft and \checkmark to toggle between SP and HP:

- , SP 1/HP 1 : Norm
- ↓ SP 2/HP 2 :
- Normal rate of effect Enhanced rate of effect
- SP OFF/HP OFF : Advanced Surround effect off (factory default)
- * 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. Dolby Pro Logic will not work properly if Advanced Surround is on.

Dialogue Enhancer

DVD-V

Available in the Dolby Digital format and DTS with 3 or multiple channels only.

Repeatedly press the button to browse the settings:

- ▶ Dialogue Enhancer ON
- Dialogue Enhancer OFF: Factory default.
- * The function Dialogue Enhancer is not supported by all discs.









Picture Mode

DVD-V DVD-A RAM VCD JPEG

The CINEMA function can either be accessed via the on-screen displays or directly selected by pressing the remote control button **CINEMA**.

You can manipulate the picture quality of films:

• CINEMA

Press \blacksquare to select the individual settings:

- Cinema 1 : Improved contrast of details of dark scenes.
- Cinema 2 : Improved brightness setting for dark scenes.
- User : User-defined colour, contrast and brightness settings
- Normal : Normal : Factory default.

VCR DVD

SETUP-menu Disc

 \square

Panasonic SETUP	8 I ()	
	Disc	
	Audio	English
	Subtitle	Automatic
	Menus	English
SELECT TAB	-	
┥ <u></u>	Ratings	Level 8 🖬
ENTER RETURN		

Options of the SETUP menu

The SETUP menu contains options concerning menu items "Disc", "Video", "Audio", "Display" and "Others".

A clearly arranged on-screen menu guides you to and through the options.

- SETUP displays the SETUP screen.
- To select one of the SETUP sub-menus (e.g. "Disc") press ◀►.
- To select the option to be changed press ▼▲ , then press ENTER to confirm.
- To select a setting press **◄▶▼▲**, then press **ENTER** to confirm.
- RETURN takes you back to the previous screen
- **SETUP** quits the menu

Audio:

Select a dialogue language as appropriate.

The menu lists eight languages for you to choose from.

"Original" : The primary language on the disc is played.

If the language you want is not on the list, go to item "Other" and type in the appropriate language code (last page) using the numeric key pad of your remote control unit.

Subtitle:

Select a subtitle language as appropriate.

Select the "Automatic" display of subtitles if the disc contains no track with a dialogue language recording.

To select another language for the subtitles proceed as described in section Audio.

Menus:

Select the language for the disc menus. Proceed as described in section **Audio**.



Ratings	
8 No Limit	
7	
6	
5	
4	
3	
2	
1	
0 Lock All	

Unlock Player Change Password Change Level Temporary Unlock

Ratings

Assign a rating to disallow the viewing of some scenes (1-7) or the entire DVD-Video disc (0).

This feature is not supported by all DVD-Video discs.

To select a rating (factory setting is "8")

When you select a rating between 0 and 7 you will be automatically prompted for a password.

- Type in a 4-digit code using the numeric key pad of your remote control unit.
- ENTER confirms your entry.

The picture of a closed padlock tells you that the system is locked.

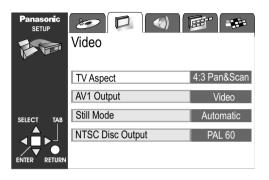
Make sure not to forget your password code.

To change the setting:

- Type in your password code.
- ENTER confirms your entry.
- Select a new setting.
- ENTER confirms your entry.

SETUP-menu Video





TV Aspect :

The format of TV screens is either 4:3 (standard) or 16:9 (wide-screen). Choose the 16:9 format if your player is attached to a wide-screen TV set. If it is attached to a standard TV screen you can choose either 4:3 Pan&Scan or 4:3 Letterbox (see illustration):

Pan&Scan:

Automatically crops a 16:9 picture and turns it into an optimum 4:3 picture producing neither black bars nor distortions.



* This format is not supported by all DVDs.

Letterbox:

Black bars will appear at the top and bottom edge of the screen to allow the reproduction of wide-screen video material on a standard TV screen.



AV1 Output:

Please check which setting is supported by your TV set. Please refer to the operating instructions of your TV set. **Video:** Standard picture quality

RGB: Set RGB for best picture quality at DVD playback.

Still Mode:

Every picture frame is made up of two fields which are output to the screen one after the other.

Automatic: The unit automatically selects the optically better type of image.

Field: Poorer quality than a frame-based image; however, the image is less fuzzy. **Frame:** Both fields of a picture alternate on the screen. Although the image may be somewhat fuzzy, its quality is better than that of a field-based still image.

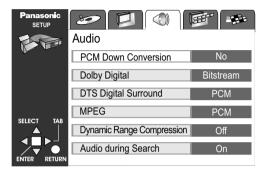
NTSC Disc Output:

To play a NTSC disc, select a TV standard (NTSC/PAL60) that matches the function of your TV set.

Please refer to the operating instructions of your TV set.

SETUP-menu Audio





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

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





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. The display will show "D.Mix" if you have multi-channel sound that can be mixed down to two channels.

PCM Down Conversion: Pulse Code Modulation

PCM is the standard method used to record digital music signals on audio CDs. DVD-Videos can be produced using the linear PCM method which is based on a sampling frequency of up to 96 kHz.

For reasons of copyright protection, the digital output of PCM audio signals may be limited to 48 kHz/16 bit.

Select "Yes" if an optical digital audio cable 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:

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

* If the equipment you connected cannot decode the signal, the setting must be changed to PCM. If not, signals that the equipment cannot process will be output by this unit causing high levels of noise which can damage your hearing and the speakers

Dynamic Range Compression:

Available in the Dolby Digital (DVD) format only.

This function compresses the volume range by putting up the level of soft passages and lowering the level of loud passages, e.g. to turn down the overall volume late at night.

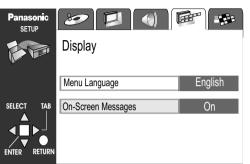
This option allows you to say whether or not the volume range is to be compressed.

Audio during Search:

Lets you decide whether or not the sound is to be on during the search.

SETUP-menu Display/Others





Panasonic SETUP	۵	
	Others	
	HighMAT	Enable
	Mixed Disc - Audio & Stills	Audio(MP3/WMA)
	DVD-Video Mode	Off
	Demo	Off
	QUICK SETUP	No
ENTER RETURN		

Menu Language:

Select a menu language as appropriate.

On-Screen Messages:

The TV screen displays the commands you give by pressing the buttons on the remote control unit.

Select "Off" to suppress the display of on-screen commands.

HighMAT

Enable: to activate HighMAT playback (Page 33) Disable: to play back HighMAT discs in MP3/WMA/JPEG format.

Mixed Disc - Audio & Stills:

Your DVD player can play back/display discs in the MP3/WMA (audio) and JPEG (image) formats. Select a playback format (JPEG or MP3/WMA) if the disc provides data in both formats.

DVD-Video Mode:

Playing back a DVD-Audio disc in DVD-Video mode ("On") allows you to play the DVD-Video section of the DVD-Audio disc. This feature is not supported by all discs.

Demo:

Select "On" to start a presentation of the different displays that the player can output to the TV screen.

Press **SETUP** to return to the SETUP menu.

QUICK SETUP:

Please refer to page 25 "DVD QUICK SETUP".

General notes on DVDs

DVDs can contain titles and chapters that the producer of the disc put into a specific order. DVDs feature a Title menu that lists the available titles and chapters. However, you can choose to select and then play individual titles and chapters. DVD playback can be controlled and manipulated via the menu that the DVD player outputs to the TV screen. The audio tracks of many DVDs contain audio material in up to 8 languages. The DVD menu has an option for selecting the language you prefer. Many DVDs provide subtitles in several languages. They may contain material in up to 32 different languages. Some DVD player functions can be controlled by the DVD itself.

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.

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

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.

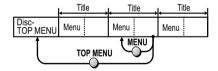
Please refer to the disc documentation leaflet.

Playing 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.

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.

Cleaning and care: Just use a soft, dry cloth. Do not use alcohol or benzine.





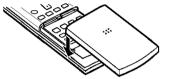




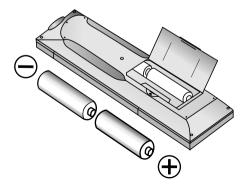
Remote control codes

You can use this remote control also for the execution of some specific TV functions of different producer appliances. Try a different code if your TV set does not respond correctly.

Remote control closure



In case the remote control cover gets loose, lock it again as shown above.



TV

• Keep button pressed and enter the two-digit code.

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Panasonic	01-04,44	GOODMANS	05,06,31	NOKIA	25-27	SANYO	21
AIWA	35	GRUNDIG	09	NORDMENDE	10	SBR	06
AKAI	27,30	HITACHI 22,2	3,31,40-42	ORION	37	SCHNEIDER 05,06	3,29-31
BLAUPUNKT	09	INNO HIT	34	PHILIPS	05,06	SELECO	06,25
BRANDT	10,15	IRRADIO	30	PHONOLA	31,33	SHARP	18
BUSH	05,06	ITT	25	PIONEER	38	SIEMENS	09
CURTIS	31	JVC	17,39	PYE	05,06	SINUDYNE 05	5,06,33
DESMET	05,31,33	LOEWE	07	RADIOLA	05,06	SONY	08
DUAL	05,06	METZ	28,31	SABA	10	TELEFUNKEN	10-14
ELEMIS	31	MITSUBISHI	06,19,20	SALORA	26	THOMSON	10,15
FERGUSON	10	MIVAR	24	SAMSUNG	31,32,43	TOSHIBA	16
GOLDSTAR/LO	G 31	NEC	36	SANSUI	05,31,33	WHITE WESTINGHOUS	SE 05,06



Note: If code 44 is the operating code for a Panasonic TV set, the corresponding remote control features additional TV functions.

🚺 = red, 🔳 = green, 🖸 = yellow, 🗊 = blue

For example, to select the AV port of the Panasonic TV press the buttons INPUT SELECT AV and A,B,C or D.

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 is not used 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 not to confuse the polarity \oplus and \ominus .

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



Before requesting service

GENERAL DISTORTIONS						
There is no audio output and the sound is distorted:	Check the connections.Deactivate the Advanced Surround effect.					
The VCR display does not light up:	Verify that the AC mains lead is properly attached					
The VCR display is on but the unit does not respond to any input:	• There is an active timer programme. Press the TIMER button to deactivate it.					
Error code "H □ □ " or "F □ □ " appears:	 This is indicative of a malfunction. The digits following "H" or "F" depend on what state your player is in. Press [O/I] to put the player into standby mode, then briefly unplug and reconnect the AC mains cable. Contact the aftersales service if this does not remove the problem. Please state the error code displayed by the set. 					
The picture is disturbed when searching:	This is a technical issue and not indicative of a malfunction.					
The screen outputs no picture:	Check the connections.Verify that the correct video input of the TV set has been selected.					
The picture is cut off at its left or right edge:	 Go to the SETUP screen and check the "TV Aspect" setting in the Video menu. Check whether the player is directly plugged into the TV set's "AV IN (Scart)" or whether it is going through a video recorder between the two units. Check the Zoom setting (page 28). 					
The remote control unit does not work properly:	 Check if the remote control is operating VCR1 or VCR2 (page 21). Check the distance between the remote control unit and the VCR/DVD (max. 7 metres). Check the batteries in the remote control unit (page 43). Point the remote control unit straight at the remote control signal sensor on the front panel. 					
No messages are output to the screen:	 Go to the SETUP screen and set Display menu option "On-Screen Messages" to "On". Go to the DVD SETUP screen and change the "TV Aspect" setting in the VIDEO menu. Open the VCR menu to modify the VCR OSD display 					

Before requesting service

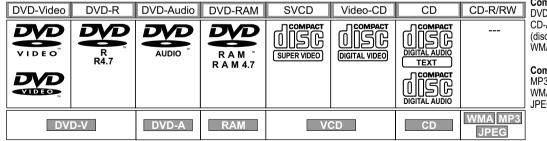
	VCR DISTORTIONS				
Manual correction of a bad picture:	 If you notice interference or a shift of the picture during normal, still or slow motion playback, press the TRACKING / V-LOCK button towards + or - to correct the picture. Press + and - together to actuate automatic correction. Some video cassettes do not support tracking control. This is not indicative of a malfunction. 				
The automatic clock does not set correctly:	 Set Clock set to AUTO (page 22). Set Time and Date manually if the unit does not find a station emitting the time signal. 				
Bad picture or sound:	 The use of E-300 cassettes may cause problems if the recordings were taken at slow tape speeds (LP or EP). Check the settings for PAL, MESECAM (page 21). Verify that the aerial and/or scart cables are attached and work properly. Check the SQPB setting for S-VHS cassettes (page 21). Faulty recordings taken at slow tape speed (EP) in MESECAM are not indicative of a malfunction. Please contact your service technician if the video heads are dirty or worn out. Having a technical service shop clean the video heads is not covered by the guarantee. 				
The recording functions do not work properly:	 If I for flashes on the unit, check if the protection tab of the video cassette is still in. Check the Clock set menu (page 22). Check the start and stop time of the timer programme (page 12). Check if the TIMER button has been pressed to put the unit into timer mode after programming a recording (page 12). Check the start and stop time of a VPS/PDC recording (page 13). 				
	The model no. and serial no. of this product are stuck down on the rear of the appliance. Please enter them below to serve as reference. Model No.				

Before requesting service

DVD DISTORTIONS						
The loudspeakers emit loud noise:	 Go to the SETUP screen and check the Audio menu settings of "Dolby Digital", "DTS Digital Surround" and "MPEG". 					
The message "NO PLAY" appears:	The player cannot play discs of the current format.The disc contains no recorded material.Child lock is enabled.					
The OSD displays are cut off along their top edge:	Move the display position down.					
The player does not respond to function key commands:	 Certain control operations are not available with some discs. Interference caused by lightning or static charge. Press [O/I] to put the player into standby mode. Restart the player. 					
Playback does not start after pressing PLAY:	 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. The disc is in the wrong way round. The label of the disc you wish to play must face up. 					
Unable to change audio track or subtitle languages:	You can only choose from the languages actually recorded on the disc.Some discs require you to change languages via the disc menu.					
The subtitles are not shown:	 The disc does not provide any subtitles. You deactivated the display of subtitles. The subtitles are output to the wrong position. Move the position of subtitles. 					
The language selected from the menu is not used for the audio track or subtitles:	The disc does not provide the language you selected.					
Unable to change the aspect angle:	It depends on the disc whether this function is available.					
You have forgotten your password:	• Stop the player and keep pressing player button ☑/◄ together with ⑥ (DVD area) and ▲ DVD until "INIT" disappears from the screen. This will restore all factory defaults. When you are done switch off the unit and back on afterwards. You will afterwards have to go to the QUICK SETUP menu (page 25) to set up the basic settings again.					

Specifications

•			
Power supply: Power consumption:	220-240 V AC, 50/60 Hz 27W (in operation) / approx. 6W (in Standby)	RF-converter VCR Horizontal resolution VCR S/N ratio VCR video	UHF-channel (21-69), 75 Ohm more than 240 lines (SP) more than 43 dB (SP)
Controls	multifunctional remote control (VCR, TV and DVD), VCR / DVD, main functions on the unit	Input level audio Output level audio	0.5V eff., more than 10 kOhm VCR: 0.5V eff., less than 1 kOhm / DVD: 2V eff. (1 kHz, 0 dB Fs) output connector: Pin jack, AV, 2
VCR playback functions	PAL and NTSC Playback on PAL TV / S-VHS Quasi Playback (SQPB)	Dynamic range Audio	channel(L/R) VCR:more than 90 dB (Hi-Fi sound tracks) DVD:(linear audio): 100dB / CD audio: 96dB,
Video- and Audio heads VCR Recording system VCR tape speed	4 Video heads, 2 heads Hi-Fi 2 rotary heads, helical scanning system SP: 23.39 mm/s, 240 min / LP: 11.7 mm/s, 480min (E-240 cassette)	Total harmonic distortion CD audio: S/N ratio CD audio: Frequency response VCR audio Frequency response DVD audio	0.0025 %, 115dB 20 Hz to 20 kHz (Hi-Fi sound tracks) 4 Hz to 22 kHz (sampling frequency 48 kHz) /
VCR fast forward/fast rewind time	e approx. 60 sec. (E-180 cassette)	(linear audio)	4 Hz to 44 kHz (sampling frequency 96 kHz), CD audio: 4 Hz to 20 kHz
Video TV system	VCR: PAL 625/50 / DVD: PAL 625/50, PAL 525/60, NTSC	DVD Optical digital output Laser-Pick up	Optical terminal Wave length: 658 nm/790 nm / Laser power:
Video input and output level DVD S-Video output	1.0 Vpp (75 Ohm) Y-output level: 1 Vpp (75 Ohm) / C- output level: PAL: 0.300 Vpp (75 Ohm)	Norwegian	Class 2 / Class 1 Bølgelengde:658 nm/790 nm / Laserstyrke: Class 2/Class 1 Ingen farlig stråling sendes ut.
DVD RGB-Video output	NTSC: 0.286 Vpp (75 Ohm) output connector: S-Video-terminal RGB-output connector: 0.7 Vpp (75 Ohm) /	Operating temperature / humidity Weight and dimensions	5°C to 35°C / 35-80% RH approx.value: 4.2 kg / 430 (width) x 89 (height) x 266 mm (depth)
	output connector: AV1	Technical specifications are subje	ect to change without notice.



* It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

Compatible disc formats:

DVD-V, DVD-A, DVD-RAM, DVD-R, VCD, SVCD, CD-Audio (CD-DA), CD-R/CD-RW (discs formatted as CD-DA or Video CD). WMA, MP3 : Max, 999 tracks/ 99 groups.

Compatible compression rate:

MP3: 32 - 320 kbps WMA: 48 - 192 kbps. JPEG : Exif Version 2.1. Max. 3000 pictures and 300 groups; Picture resolution between 320 x 240 and 6144 x 4096 : JPEG Format : 4:2:2 or 4:2:0. HighMAT :

Level 2 (Audio and Image)

INDEX A-B Repeat Advanced Surround Angle Audio AV2 AV1 Output	Page 35 8,9,35,36,44 34,37 21 39	DTS Digital Su DVD-RAM EXT LINK Field Frame Group	rround	9,40,46 32 16,21 39 39 28,34	NICAM NTSC NTSC Disc OPTICAL OSD OSD Bright On-Screen	ness	S	22 24,39 39 9 21 35 41,44	Scart cable Slideshow SP/LP selec SQPB Still Mode Still Picture Subtitle S-VHS cass		2	8 35 13 21 39 35 34,37 21,24,45
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