



KH 2370

DVD Surround Sound Combination Unit

Operating Instructions

En



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Notes:

- **The DVD surround sound combination unit is called "combination unit" in these operating instructions.**
- **The same buttons on the combination unit and on the remote control have the same function respectively.**

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Technical Data

Combination unit/Main unit

Power supply: AC 230 V ~ 50 Hz
Output (per channel): 7 Watt RMS at 4 Ohm
Power consumption: 60 Watt

Radio section

AM band: 522 - 1620 KHz
FM band: 87.5 - 108 MHz

Disc section

Frequency response (-6dB): ... 20-15 000 Hz
Signal-to-noise ratio: 50 dB
Harmonic distortion: 0.4%
Channel separation: 40 dB

Subwoofer

Output (per channel): 50 Watt RMS at 4 Ohm
Power consumption: 70 Watt

Playable CDs and DVDs

DVD video

12 cm single-sided, single-layered
12 cm single-sided, double-layered
12 cm double-sided, double-layered
8 cm single-sided, single-layered
8 cm single-sided, double-layered
8 cm double-sided, double-layered

CD Audio





12 cm CD, 8 cm CD

Scope of supply

1. DVD surround system combination unit
2. Subwoofer
3. Infrared remote control
4. Satellite loudspeakers (2 x front, 2 x rear, 1 x center)
5. 5 loudspeaker cables (3 x short, 2 x long)
6. 2 cinch cables
7. 1 S-Video cable
8. Operating instructions

Application and function

The eBench KH 2370 combination unit is exclusively intended

- as a consumer electronics system
- to play back
 - DVD videos with 120 mm (diameter) and 80 mm (diameter) formats with the country/region code 2 or  marked with the logo 
 - Video CDs (VCDs) and Super Video CDs (S-VCDs) with 120 mm (diameter) and 80 mm (diameter) formats, marked with the logo 
 - Audio CDs with 120 mm (diameter) and 80 mm (diameter) formats, marked by the logo 
 - in general CD audio (.cda), MP3 (.mp3) and JPEG (.jpg) file formats on CD-R and CD-RW storage media.
 - 5.1 channel surround sound, if it is available on the playback media
 - to pick up UKW (FM) and medium wave (AM) radio stations
 - for stationary application in closed rooms
 - for private, non-commercial use

The eBench KH 2370 combination unit can be connected to the following for video display when playing back DVDs, VCDs and S-VCDs:

- Stereo and mono televisions with PAL or SECAM television formats and the picture formats 4:3, 4:3 Pan & Scan, 16:9
- Video projectors, if they have the corresponding connections and the connection of a DVD player is provided/allowed by the manufacturer of the video projector

The eBench KH 2370 combination unit can be connected to the following for output sound or music:

- The supplied surround loudspeakers and the subwoofer of the combination unit
- Loudspeakers of one of the televisions connected to the combination unit

- Headphones with 3.5 mm jack plug connection
- external (analog and digital) audio components

Attention!

No liability/guarantee will be assumed for damages, which are caused by the inappropriate use of the equipment!

Setting up the combination unit / Safety information

1 Take

- the combination unit
- the subwoofer
- the surround loudspeakers and
- the supplied accessories

carefully out of the packaging.

2 Put the combination unit and the components on a flat, level and non-slip surface.

Attention!

To avoid malfunctions, damages and the risk of an electric shock, do not use the combination unit:

- directly near to sources of heat such as stoves, fan heaters and similar devices! Heat influences can cause the combination unit to overheat and the plastic parts to melt, whereby irreparable damage can be caused to the combination unit!

Warning!

In the case of overheating there is also a fire risk!

- in damp environments, for example in cellars or in the sauna! Moisture, which has penetrated into the unit, can cause malfunctions and thus cause irreparable damage to the unit!

Warning!

If moisture penetrates into the unit, there is a risk of getting an electric shock!

- directly near to water, for example near the bath or a swimming pool. Also do not place any container filled with water – such as e.g. vases – on the combination unit and its components.

Warning!

If water runs into the combination unit or if it falls into water, this can cause irreparable damage to the unit and there is a risk of getting an electric shock!

- in cupboards, shelves or other closed furniture or on beds and blankets, otherwise the ventilation of the combination unit can be restricted and then it can overheat.

For the same reason do not put any other devices on top of the combination unit.

To guarantee sufficient ventilation, the combination unit must have a distance from the back, top and sides of at least 10 cm to walls and any other objects at the chosen installation location.

Warning!

Overheating can cause irreparable damage to the combination unit and there is a risk of fire!

Attention!

For damages to the combination unit, which have arisen due to

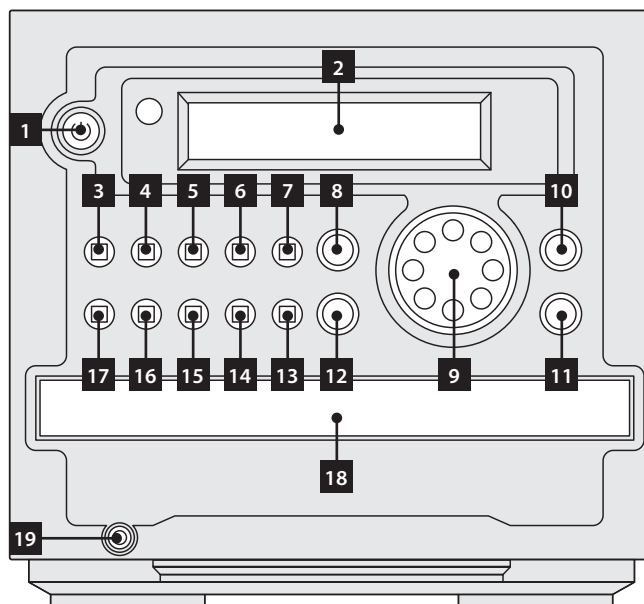
- effects of moisture
- water which has penetrated into the unit
- overheating,

no liability/guarantee will be assumed!

Control elements, displays and connections

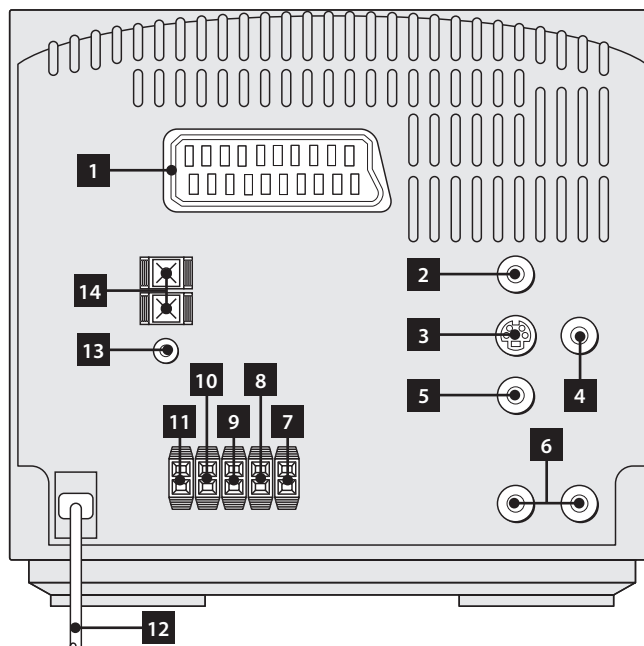
... on the unit

1. POWER button
2. Display
3. CD/DVD button
4. TUNER/BAND button
5. AUX button
6. REPEAT/MEM DN button
7. PAUSE/MEM UP button
8. PLAY/ENTER button
9. Volume control Volume +/-
10. OPEN/CLOSE button
11. PRESET EQ button
12. STOP button
13. SKIP forwards button
14. SKIP backwards button
15. TIMER button
16. MODE button
17. CLK ADJ button
18. Disc tray
19. Headphone jack PHONES



... on the back of the combination unit

1. Scart jack
2. Video jack
3. S-Video jack
4. Coaxial jack
5. Subwoofer jack
6. AUX IN L + R jacks
7. Rear terminal L
8. Rear R terminal
9. CENTER terminal
10. Front L terminal
11. Front R terminal
12. Power cord
13. FM dipole antenna (non-detachable)
14. AM terminal



... on the front of the subwoofer

- POWER button
- Volume control

... on the back of the subwoofer

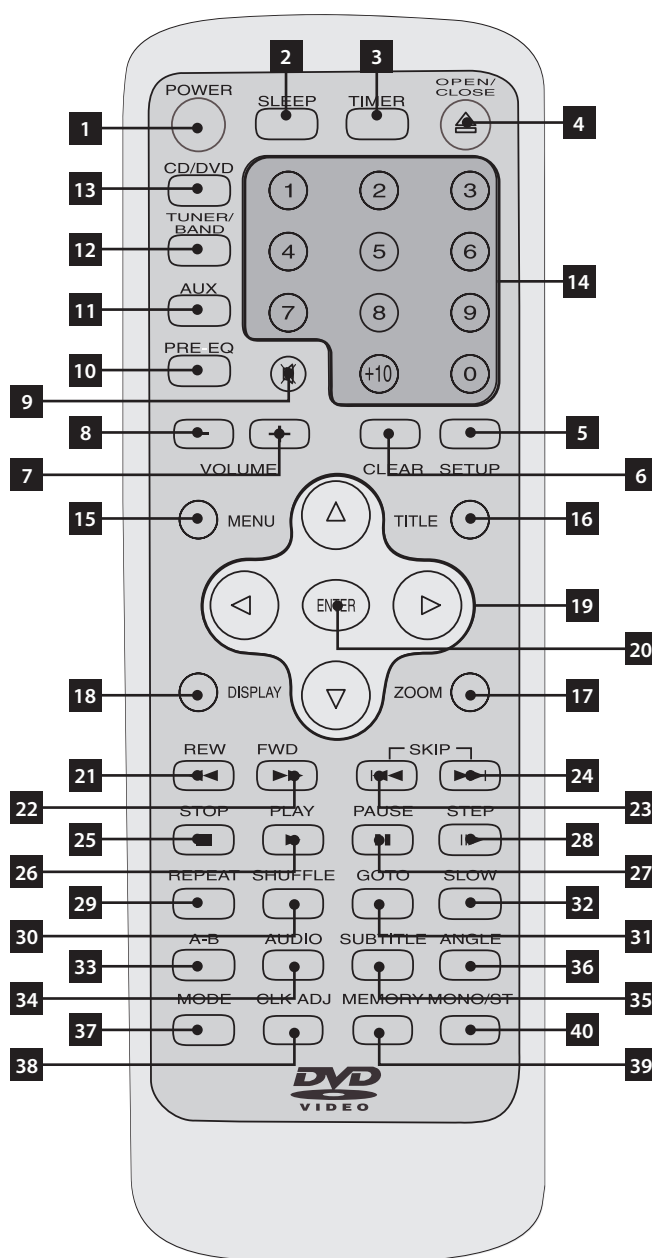
- Subwoofer IN jack
- Power cord
- Power switch

... on the back of the surround loudspeakers

each with +/- terminal

... on the remote control

1. POWER button
2. SLEEP button
3. TIMER button
4. OPEN/CLOSE button
5. SETUP button
6. CLEAR button
7. Vol + button
8. Vol - button
9. MUTE button
10. PRE-EQ button
11. AUX button
12. TUNER/BAND button
13. CD/DVD button
14. Number buttons 0 to 9 and 10 +
15. MENU button
16. TITLE button
17. ZOOM button
18. DISPLAY button
19. Control buttons up, down, left, right
20. ENTER button
21. REW button
22. FWD button
23. SKIP backwards button
24. SKIP forwards button
25. STOP button
26. PLAY button
27. PAUSE button
28. STEP button
29. REPEAT button
30. SHUFFLE button
31. GOTO button
32. SLOW button
33. A-B button
34. AUDIO button
35. SUBTITLE button
36. ANGLE button
37. MODE button
38. CLK ADJ button
39. MEMORY button
40. MONO/ST. button



Preparing the combination unit for operation

Remote control

- 1 Open the battery compartment on the back of the remote control and remove the cover of the battery compartment.
- 2 Now put in two batteries type AAA/LR 03 (round cells, not included in the scope of supply) into the battery compartment. Take care that the batteries are inserted with the correct polarity.
- 3 Put the cover of the battery compartment back on to the back of the remote control.

Replacing the batteries:

If the combination unit cannot be operated properly with the remote control or does not work at all, the batteries must be replaced.

Always replace both batteries, in order to be able to use the remote control at full capacity again.

Note:

Used batteries may not be disposed of in household waste. Throw away used batteries at a waste collection or disposal point or there, where you bought the batteries.

If you should want to dispose of the remote control of the combination unit itself, then you have to remove the batteries beforehand!

Note

To guarantee that the remote control works perfectly:

- Always point the remote control at the combination unit
- Ensure that there are no obstacles between the remote control and the combination unit, which prevent reception
- Do not move more than 5 meters away from the combination unit when using the remote control

Otherwise disturbances can arise when operating the combination unit with the remote control.

Connecting the combination unit to a television

After having set up the combination unit, you can now connect it to a television. The combination unit can be connected to a television with PAL, NTSC and SECAM television standards.

If you would like to use the combination unit with a television with

- NTSC standard, then you have to change the video settings of the combination unit. This can be done in the so-called OSD menu of the combination unit. There you will find that PAL has been set by the factory as the television standard.
- SECAM standard, then you do not have to make any changes to the settings in the OSD menu. The settings for the PAL standard also enable the combination unit to be operated with SECAM television sets. However to do this, SECAM television sets must be able to process PAL signals.

Depending on the type of television, there are different possibilities of connecting the combination unit to it:

Connecting to a television by means of a scart cable/RGB

Note:

The best quality connection is achieved by connecting the combination unit to the television by means of a scart cable via the RGB input. Choose this connection variant if the television has an RGB input. If you are not sure, check this by looking at the operating instructions of the television.

To connect the combination unit to a television by means of a scart cable:

- 1 Plug the supplied scart cable into the scart jack of the combination unit.
- 2 Plug the other end of the scart cable into the scart jack of the television.
- 3 Set the television to RGB mode in the AV channel. If you are not sure how to carry out this setting, then consult the operating instructions of the television.

Also look at the chapter "Setting video output" for more information on this subject.

Connecting to a television by means of S-Video

Note:

For this connection variant, the television must have an S-Video input and two unassigned cinch jacks.

If you are not sure whether

- the television can use S-Video, then consult the operating instructions of the television
- it has unassigned cinch jacks, then check this on the back of the television

To connect the combination unit by means of S-Video to the television:

- 1 Plug in the S-Video cable into the jacks labelled S-Video of the combination unit.
- 2 Plug in the other end of the S-Video cable in the S-Video jacks of the television.
- 3 Plug in one cinch cable into the AUX IN L cinch jack of the combination unit.
- 4 Plug in the other end of the cinch cable into the audio jack for the left channel on the television.
- 5 Plug in another cinch cable into the AUX IN R cinch jack of the combination unit.
- 6 Plug in the other end of this cinch cable into the audio jack for the right channel on the television.
- 7 Set the television to the AV channel, which reproduces the S-Video signal. If you are not sure how to carry out these settings, then consult the operating instructions of the television. In addition, check the operating instructions to see whether you have to carry out any further settings on the television.

Also look at the chapter "Setting video output" for more information on this subject.

Connecting to a television by means of video input (composite video)

If you would like to connect the combination unit to a television, which

- is not capable of using S-Video and
- does not have a scart jack, but has cinch jacks

then connect it by means of the video input (the so-called "composite video"–connection variant). To do this:

- 1 Plug in the supplied cinch cable into the video jack of the combination unit.
- 2 Plug in the other end of the cinch cable into the corresponding cinch jack of the television.
- 3 Plug in one cinch cable into the AUX IN L cinch jack of the combination unit.
- 4 Plug in the other end of the cinch cable into the audio jacks for the left channel on the television.
- 5 Plug in another cinch cable into the AUX IN R cinch jack of the combination unit.
- 6 Plug in the other end of this cinch cable into the audio jacks for the right channel on the television.
- 7 Check the operating instructions whether any other possible settings are necessary on the television.

Connecting the antenna to the combination unit:

To pick up radio stations the combination unit has

- a dipole antenna for very high frequency (VHF/FM) broadcasting stations, which is firmly mounted on the back of the combination unit and
- a loop antenna for medium wave (AM) broadcasting stations, which is part of the scope of supply. First of all you have to connect this antenna to the combination unit.

- 1 Lift the stand of the loop antenna, which has been folded inside, to the outside.
- 2 Lock the plastic clips on the loop antenna into the slits on the stand. If you can hear that the plastic clips have locked into the slit, this means that the loop antenna has to be upright.
- 3 Turn the combination unit around. On the back you will find a black double terminal labelled AM. Insert one lead of the antenna cables into each of the terminals. The medium wave antenna is now operational.

Connect the headphones to the combination unit

Plug in the jack plug of the headphones into the headphones jack PHONES of the combination unit.

Connecting to digital audio components

If you have a Dolby Digital or DTS amplifier, then you can connect the combination unit to it. To do this, you need

a coaxial cable which can be bought in specialised audio equipment shops.

- 1 Plug in the coaxial cable into the COAXIAL jack of the combination unit.
- 2 Plug in the other end of the coaxial cables into the corresponding jack on the Dolby Digital/DTS amplifier.

Connect the surround loudspeakers and subwoofer to the combination unit

The supplied surround loudspeakers are connected to the combination unit by means of the supplied loudspeaker cables. Use the three shorter loudspeaker cables to connect

- the center loudspeaker and
- the front right and left surround loudspeakers

to the combination unit. Use both the long loudspeaker cables to connect

- the rear right and left surround loudspeakers

to the combination unit. The subwoofer is connected to the combination unit by means of one of the supplied cinch cables.

The supplied surround loudspeakers are identical. You can, e. g., use each of the loudspeakers as center loudspeaker, front or rear surround loudspeaker.

- 1 To connect the surround loudspeakers, insert each
 - end of the red leads of the loudspeaker cable into the red terminal and
 - end of the black leads of the loudspeaker cable into the black terminalson the back of the loudspeaker.
- 2 Then insert
 - the end of the red leads of the loudspeaker cable into the red terminal and
 - the end of the black leads of the loudspeaker cable into the black terminalon the back of the combination unit. Insert the individual loudspeaker cables into the following terminals:
 - the cable of the front right loudspeaker into the terminal marked Front R
 - the cable of the front left loudspeaker into the terminal marked Front L

- the cable of the center loudspeaker into the terminal marked Center
 - the cable of the rear right loudspeaker into the terminal marked Rear R
 - the cable of the rear left loudspeaker into the terminal marked Rear L
- 4 To connect the subwoofer: Plug in the supplied cinch cable into the SUBWOOFER cinch jack of the combination unit.

Positioning the surround loudspeakers

To provide an optimal sound, the loudspeakers should be positioned as follows:

- Front right and left surround loudspeakers on the right and left of the television
- Center loudspeaker in the middle between the front left and right surround loudspeakers
- Rear right and left surround loudspeakers on the right and left behind your listening position
- The installation location of the subwoofer is optional, as the human ear cannot locate the low tones of the subwoofer.

Initial operation of the combination unit

In order to be able to carry out the following settings before using the combination unit for the first time:

- 1 Insert the power cord of the combination unit into a power socket.
- 2 Insert the power cord of the subwoofer into a power socket.
- 3 Press the POWER button to switch on the combination unit.
- 4 Switch the power switch on the back of the subwoofer to ON.
- 5 Press the POWER button on the front of the subwoofer to switch it on.

Operating the OSD menu

Most of the settings on the combination unit are carried out by means of the so-called on screen display menu

(abbr. OSD menu). The OSD menu appears on the television screen. It is very easy to operate the OSD menu:

- Select the individual settings with the up, down, right and left control buttons.
- Confirm the corresponding selection with the ENTER button.

To be able to carry out the necessary settings by means of the OSD menu:

Press the POWER button to switch on the combination unit. First of all READING will flash on the front of the combination unit, then NO DISC will be displayed. The following will be shown on the television screen:



Familiarize yourself with the operation of the OSD menu by carrying out the following brief instructions:

- 1 To call up the OSD menu of the combination unit, press the SETUP button on the remote control.

The main menu with the menu items now appears on the television screen:

SETUP MENU	MAIN PAGE
General Setup	
Speaker Setup	
Audio Setup	
Preferences	
Exit setup	

- 2 You can select the individual main menu items with the up and down control buttons on the remote control. The selected main menu item is highlighted.

Note:

You cannot select the main menu item PREFERENCES when a disc is being played back. To be able to select PREFERENCES you first have to stop the playback. Press the STOP button twice.

- 3 To display the subitems to a main menu item, press the ENTER button. The following will now be displayed:

- on the left side, the list of subitems of the selected main menu item. Each selected subitem will be highlighted.
- on the right side, the list of the options for the selected subitem. Each selected option will be highlighted.

Example: You have selected the main menu item GENERAL SETUP. If you press the ENTER button, the following will be displayed:

GENERAL PAGE	
TV Display	Normal/PS
OSD Lang	Normal/LB
Scr Saver	Wide
Main Page	

- 4 To choose between the selected subitem options, press the right control button. You are now in the list of options for the selected subitem.
- 5 You can select an option with the up and down control buttons. Confirm your selection by pressing the ENTER button.
- 6 Press the left control button to change back to the list of the subitems.
- 7 Now you can
 - select another subitem with the up/down control buttons or
 - return to the main menu. Choose the main page of the subitem by using the control buttons. Then press the ENTER button.
- 8 To exit the OSD menu, select the menu item Exit Setup using the control buttons. Then press the ENTER button; the OSD menu is hidden.

Necessary settings to the combination unit before initial use

Before the initial use of the combination unit, you must carry out some settings by means of the OSD menu. To be able to do so

- the combination unit and
 - the television, to which it is connected,
- have to be ready for operation and switched on.

- 1 Call up the OSD menu, by pressing the SETUP button. The OSD menu will be shown with its menu items:

SETUP MENU	MAIN PAGE
General Setup	
Speaker Setup	
Audio Setup	
Preferences	
Exit setup	

- 2 Select the main menu item PREFERENCES with the down control button. Confirm your selection with the ENTER button. The subitems of the main menu item PREFERENCES are displayed:

Preferences Page	
TV-Type	Multi
Video Output	NTSC
Audio	PAL
Subtitle	
Disc-Menu	
Parental	
Password	
Defaults	

Set television standard

- 1 The subitem TV-TYPE is the first to be automatically selected. Change to the options list of this subitem using the control buttons.
- 2 Choose between the options using the control buttons:

MULTI

This setting automatically selects the standard with which the DVD/VCD/S-VCD was recorded. Only use the MULTI setting, if the combination unit is connected to a multi-standard television.

NTSC

DVDs/VCDs/S-VCDs, which have been recorded with the NTSC standard, are played back with this setting.

DVDs/VCDs/S-VCDs, which have been recorded with the PAL standard, are converted automatically so as to play back in NTSC format. Only use the NTSC setting, if you have connected the combination unit to a NTSC television.

PAL

This setting plays back DVDs/VCDs/S-VCDs, which have been recorded with the PAL standard.

DVDs/VCDs/S-VCDs, which have been recorded with the NTSC standard, are converted automatically, so as to play

back in PAL format. Only use the PAL setting if you have connected the combination unit to a PAL television.

Note:

The correct setting depends on the television, to which you have connected the combination unit. Your television – as long as it was not bought abroad – will mostly correspond to the normal television standard in your country. If you are not sure which television standard is used in your country, then check this by referring to the operating instructions of your television.

Also look at the chapter "Glossary/Index" for more information on this subject.

- 3 Return to the list of the subitems.

Setting video output

- 1 Select the subitem VIDEO OUTPUT using the control buttons. Change back to the list of options for this subitem.
- 2 Choose between the options using the control buttons:

S-VIDEO

Select S-Video, if the combination unit is connected to the television by means of an S-Video cable.

RGB

Select RGB, if the combination unit is connected to the television by means of a scart cable.

Note:

If you have selected the composite video connection variant, it does not matter which setting you have chosen.

- 3 Return to the list of the subitems.

Setting playback language

- 1 Select the subitem AUDIO using the control buttons. Change to the options list of this subitem.

Here you can set the language, in which the contents of DVDs/VCDs/S-VCDs are played back.
- 2 Select one of the languages displayed using the control buttons.

Note:

DVD/VCD/S-VCD contents are only played back in the selected language if it is available on the DVD/VCD/S-VCD. If it is not available, then the contents will be

played back in a language which is on the DVD/VCD/S-VCD. You can mostly find information on which playback language is available on the DVD-/VCD-/S-VCD cover.

Also look at the chapter "Changing playback language" for more information on this subject.

- 3 Return to the list of the subitems.

Setting subtitle language

- 1 Select the subitem SUBTITLE using the control buttons. Change to the options list for this subitem.
- 2 Select one of the displayed languages or OFF using the control buttons. If you select OFF, no subtitles will be shown when playing back a DVD/VCD/S-VCD.

Note:

Subtitles will be shown only in the selected language, if it is available on the DVD/VCD/S-VCD. If it is not available, then the subtitles will be played back in one of the languages available on the DVD/VCD/S-VCD. Mostly you can find information on which playback language is available on the DVD-/VCD-/S-VCD cover.

- 3 Return to the list of the subitems.

Please also look at the chapter "Showing/hiding subtitles" for more information on this subject.

Set the language of the disc menu

- 1 Select the subitem DISC MENU using the control buttons. Change to the options list of this subitem.

Here you can set the language, in which the menu for DVDs/VCDs/S-VCDs – if available – is displayed on the television screen.

Note:

There is not a disc menu on all DVDs/VCDs/S-VCDs. If there is a disc menu: The disc menu is only displayed in the selected language, if this is available on the DVD/VCD/S-VCD. If it is not available, then the disc menu will be displayed in one of the languages available on the DVD/VCD/S-VCD. The available languages can be selected mostly, however, also in the disc menu itself.

Also look at the chapter "Calling up DVD menu" for more information on this subject.

- 2 Select one of the displayed languages using the control buttons.
- 3 Return to the list of subitems.

Switching on/off disc navigation menu

The playback functions of CD-Rs/CD-RWs with MP3 and JPEG files can be operated either

- exclusively by means of the buttons of the remote control or
- by means of the so-called SMART NAVI menu

However the SMART NAVI menu offers you more playback functions. The SMART NAVI menu is shown on the television screen. It is operated in a similar manner as that of the OSD menu. To display the SMART NAVI menu automatically if CD-Rs/CD-RWs with MP3/ JPEG files are inserted:

- 1 Select the subitem SMART NAV using the control buttons. Change to the list of options for this subitem.
- 2 Select the option WITH MENU using the control buttons. If you would like to operate the playback functions of CD-Rs/CD-RWs with MP3/JPEG files without SMART NAVI menu: Select the option NO MENU.

Also look at the chapter "Operating the SMART NAV menu" for more information on this subject.

- 3 Return to the list of the subitems. Select the subitem MAIN PAGE using the control buttons to return to the main menu.

General settings

Select GENERAL SETUP in the main menu using the control buttons. Press the ENTER button. The subitems of the main menu item GENERAL SETUP are displayed:

GENERAL PAGE

TV Display	Normal/PS
OSD Lang	Normal/LB
Scr Saver	Wide

Main Page

Set picture format

- 1 Select the subitem TV DISPLAY using the control buttons. Here you can set the picture format for the television, which is connected to the combination unit.
- 2 Select a suitable picture format in the list of options using the control buttons:

Note:

The correct setting depends on the television to which you would like to connect the combination unit. If you are not sure which picture format is possible with your

television, then check this by referring to the operating instructions of your television.

NORMAL/PS

Picture format 4:3 Pan & Scan; when playing films with format 16:9, the left and right part of the picture are cut off. This means that the height of the screen is utilized as far as possible.

NORMAL/LB

Picture format 4:3; when playing films with format 16:9, black bars can be seen on the upper and lower part of the picture.

WIDE

Wide screen format 16:9; when playing films with format 16:9 with 16:9 (1.78:1) wide screen televisions, the picture appears without black bars on the upper and lower parts of the picture and without the right and left part of the picture being cut off.

- 3 Return to the list of the subitems.

Setting the language of the OSD menus

- 1 Select the subitem OSD LANG using the control buttons.

Here you can set the language in which the OSD menu is displayed.

GENERAL PAGE

TV Display	English
OSD Lang	French
Scr Saver	German
	Italian
	Portuguese
	Spanish
Main page	

- 2 Select the requested language in the list of options using the control buttons.
- 3 Return to the list of subitems.

Switch on the screensaver

- 1 Select the subitem SCR SAVER using the control buttons.

Info:

The screensaver prevents a picture, which has been displayed for a long time, from being burned into the television screen. If the screensaver is switched on, this will automatically be shown as soon as

- the OSD menu is displayed for a longer period of time on the television screen and
 - at the same time no buttons are pressed on the remote control/on the front of the combination unit.
- 2 Select between ON and OFF in the list of options using the control buttons.
 - 3 Return to the list of subitems. Select the subitem MAIN PAGE using the control buttons, to return to the main menu.

Loudspeaker settings

The subsequent settings apply to the sound reproduction by means of the surround loudspeakers and the subwoofer of the combination unit. If you would like to use an external audio component for the sound reproduction then you have to carry out the settings on this component. Check the operating instructions to find out how to carry out these settings on the audio component.

In order to get an optimal sound, it is necessary to adjust the sound reproduction to

- the conditions at the installation location of the combination unit and
- your personal preferences

To do this:

- 1 Select the menu item SPEAKER SETUP in the main menu. In the menu SPEAKER SETUP, the following is displayed:

SPEAKER SETUP

Downmix	Stereo
Center	OFF
Rear	
Subwoofer	
Cntr Delay	
Rear Delay	
Test Tone	

- 2 Select the subitems in the list one after the other:

DOWNMIX

Select the option STEREO, if you

- have connected the combination unit to a stereo television and
- would not like to use the surround loudspeakers for the sound reproduction or

- have connected a digital audio component by means of the stereo output (using the cinch cable to the cinch jacks AUX IN R and L) to the combination unit.

The sound reproduction then only comes from two channels (Stereo). This is called stereo downmix. **Otherwise you will not be able to hear the sound or only very softly when playing back DVDs/VCDs/S-VCDs, audio and MP3 CDs!**

Select OFF, if none of the named reasons for switching on the stereo downmix apply.

CENTER

To play back 5.1 channel surround sound, select the ON option. If you would like to switch off the center loudspeaker, select the OFF option.

REAR

To play back 5.1 channel surround sound, select the ON option. If you would like to switch off the rear right and left loudspeaker, select the OFF option.

Subwoofer

To play back 5.1 channel surround sound, select the ON option. If you would not like to have any bass enhancement by the subwoofer, select the AUS option.

CNTR DELAY

Here you can set the delay with which the sound of the center loudspeaker reaches your listening position. If the settings have been carried out optimally, the sound from all loudspeakers will reach your listening position at the same time.

The correct value depends on the distance of the center loudspeaker from your listening position. Three milliseconds delay correspond to a distance of around one meter. Set a delay between one and five milliseconds with the up and down control buttons.

REAR DELAY

Here you can set the delay with which the rear loudspeaker arrives at your listening position. If the settings have been carried out optimally, the sound from all loudspeakers will reach your listening position at the same time.

The correct value depends on the distance of the rear loudspeaker from your listening position. Three milliseconds delay correspond to a distance of around one meter. Set a delay between one and fifteen milliseconds with the up and down control buttons.

TEST TONE

Choose between the ON and OFF options. When the test sound is switched on, you will hear a hissing sound coming one after the other from all connected loudspeakers. With this sound you can test, whether

- all loudspeakers are correctly connected to the combination unit and
 - you have the optimal delay setting for the rear and the center loudspeakers.
- 3 Return to the list of the subitems. Select the subitem MAIN PAGE using the control buttons to return to the main menu. Exit the OSD menu, by selecting the menu item EXIT SETUP.

Set the volume level of the surround loudspeakers

You can set the volume level for each surround loudspeaker and also the subwoofer individually. To do this:

- 1 Press the STEREO/ST button when the combination unit is switched on. FL +6 will appear in the display of the combination unit for the front left surround loudspeaker.
- 2 Select a volume value between +6 and -6 dB with the up/down control buttons.
- 3 Subsequently select the other surround loudspeakers with the left/right control buttons. The following will be displayed:
 - CT +6 for the center loudspeaker
 - FR +6 for the front right surround loudspeaker
 - RL +6 for the back left surround loudspeaker
 - RR +6 for the rear right surround loudspeaker
- 4 Select the required volume for each loudspeaker with the up/down control buttons.

Note:

If you are not sure which value is the correct one: Carry out this setting from your listening position while playing back a DVD/VCD/S-VCD. Try all the different settings until you have found a sound which you consider optimal.

- 5 To save the settings, press the STEREO/ST button once more. The loudspeaker settings have now been completed.

Other audio settings

Press the "Setup" button to display the OSD menu. Select the menu item AUDIO SETUP in the main menu. The following is displayed in the menu AUDIO SETUP:

AUDIO SETUP	
Audio Out	Analog
OP Mode	SPDIF/Raw
Dual Mono	SPDIF/PCM
Dynamic	
LPCM Output	
Main page	

Setting audio output

- 1 Select the subitem AUDIO OUTPUT using the control buttons.
- 2 Select the option
 - ANALOG, if you have not connected any digital audio components to the combination unit.
 - SPDIF/RAW, if you have connected a multi-channel digital audio component – e. g. a Dolby Digital or DTS receiver – by means of a coaxial cable to the combination unit.
 - SPDIF/PCM, if you have connected a two-channel digital audio component by means of a coaxial cable to the combination unit.
- 3 Return to the list of subitems.

Settings for mono VCDs/S-VCDs

Note

This subitem is only relevant when playing back VCDs/S-VCDs. The sound on VCDs/S-VCDs can be available in

- monolingual in stereo or
 - bilingual in mono.
- 1 Select the subitem DUAL MONO using the control buttons.
 - 2 For mono VCDs/S-VCDs select
 - the STEREO option: You hear the first language on the front left and the second language on the front right loudspeaker.

- the L-MONO option: You hear the first language on the front left and right loudspeakers.
 - the R-MONO option: You hear the second language on the front left and right loudspeakers.
 - the MIX-MONO option: You hear both languages one on the front left and one on the front right loudspeaker.
- 3 Return to the list of the subitems.

Dynamic range compression/Set midnight mode

- 1 Select the subitem DYNAMIC using the control buttons.

Here you can set the so-called midnight mode to play back DVDs with 5.1 channel surround sound. This mode can be useful if e. g. you would like to play back a DVD during the night.

Explanation: If you lower the playback volume with the volume buttons/volume control then all 6 audio channels are affected. Both background noises and also music and dialogue become quieter in equal measures. By contrast, in the case of midnight mode, only the playback volume of background noises, music etc. becomes quieter. The dialogues can therefore be heard very well even with a lower playback volume.

- 2 Set a value between OFF and FULL using the control buttons.
- 3 Return to the list of subitems. Select the subitem MAIN PAGE, to return to the main menu.

Using the combination unit

After you have

- set up the combination unit in a suitable location
- have connected the combination unit to a television with one of the described connection options
- positioned the surround loudspeakers and the subwoofer and connected them to the combination unit
- know, how one calls up and operates the OSD menu with the remote control and
- have connected and switched on the combination unit and the subwoofer to the power supply

you can start using the combination unit.


General functions of the combination unit

Setting playback volume

Press the Vol + button to increase the playback volume. To decrease the playback volume press the Vol – button.

The change in the volume between MIN (sound off) and MAX (maximum volume) will be shown in the display.

Switching the playback sound to mute (Mute)

To switch the playback sound to mute, press the  button while playing back DVDs, VCDs/S-VCDs, audio CDs as well as CD-Rs/CD-RWs with MP3 files. If you would like to switch the playback sound back on, then press the button once more.

Equalizer functions

The combination unit has a five-step equalizer function. With this function you can, in addition, adjust the sound playback to suit your personal hearing preferences. To switch on the equalizer function, press the PRE-EQ button.

Every time you press the PRE-EQ button, you switch on one of the equalizer settings JAZZ, ROCK, CLASSIC, POP and FLAT. Each of these settings has its own characteristic emphasis of high, medium and low tones (basses). The equalizer setting at any one time appears in the display of the combination unit.

Setting the clock

To set the time display shown on the display of the combination unit:

- 1 If a disc is being played back: First of all stop the playback by pressing the STOP button twice.
- 2 Press the MODE button once. The currently input time will be shown in the display of the combination unit.
- 3 Press the CLK ADJ button once. The first two digits of the time display now flash.
- 4 Set the first two digits of the time display to between 00 and 23. Use the SKIP forwards and SKIP backwards button to do this.
- 5 Subsequently press the CLK ADJ button. The last two digits of the time display now flash.
- 6 Set the last two digits of the time display to between 00 and 59. Use the SKIP forwards and SKIP backwards button to do this.

- 7 To save the new input time, press the CLK ADJ button again.

Using the timer

The combination unit can switch itself on automatically at a fixed time with the timer function. You can select whether an audio CD should be played back or the radio should be switched on.

Note:

If you would like to use the timer function to switch on the radio, then the radio station must be saved.

Look at the chapter "Radio mode" for more information on this subject.

For the timer function to work properly, the time in the display of the combination unit has to be set correctly. Check this and, if necessary, set the correct time. To switch on the timer function:

- 1 If a disc is being played back: First of all stop playback by pressing twice on the STOP button.

To switch on the audio CD playback:

- 2 Put the audio CD, which you would like to play back with the timer function, into the combination unit.
- 3 Press the CD/DVD button, if you would like to switch on the audio CD playback with the timer function. Go directly to step 4 and continue reading.

To switch on the radio:

- 2 Press the TUNER/BAND button.
- 3 Now select the radio station which should be switched on with the timer function. To do this, use the PAUSE/MEM UP and REPEAT/MEM DN buttons on the combination unit. The memory slot of the selected radio station and its frequency will be shown in the display of the combination unit.
- 4 Press the TIMER button.
- 5 Press the MODE button twice. The input time and TIMER ON will be shown in the display.
- 6 Now set the time at which the timer function should switch on the combination unit. Press the CLK ADJ button once. The first two digits of the time display now flash.
- 7 Set the first two digits of the time display to between 00 and 23. Use the SKIP forwards and SKIP backwards buttons to do this.

- 8 Press the CLK ADJ button again. The last two digits of the time display now flash.
- 9 Set the last two digits of the time display to between 00 and 59. Use the SKIP forwards and the SKIP backwards buttons to do this.
- 10 To save the input time press the CLK ADJ button again.
- 11 Press the MODE button once more. TIMER OFF appears in the display
- 12 Now set the time at which the timer function should switch off the combination unit. To do this, press the CLK ADJ button once. The first two digits of the time display now flash.
- 13 Set the first two digits of the time display to between 00 and 23. To do this use the SKIP forwards and SKIP backwards buttons.
- 14 Press the CLK ADJ button again. The last two digits of the time display now flash.
- 15 Set the last two digits of the time display to between 00 and 59. Use the SKIP forwards and SKIP backwards buttons to do this.
- 16 To save the input time, press the CLK ADJ button again.
- 17 Press the MODE button.
- 18 Then press the CLK ADJ button once more. DVD/CD flashes in the display.
- 19 **To switch on the audio CD playback:** Go directly to step 20 and continue reading.

To switch on the radio: Press the SKIP forwards button until TUNER flashes in the display.
- 20 Press the MODE button to complete the setup of the timer function.
- 21 Press the POWER button. The timer function is now switched on. The combination unit will switch the audio CD playback/the radio on and off respectively at the input times.

Using the sleep timer

The combination unit can switch itself off automatically after a fixed time with the sleep timer function. To switch on the sleep timer function:

- 1 Press the SLEEP button once during playback. 90 shows up in the display and SLEEP flashes.

- 2 Nine different time steps can be set to switch off the combination unit. Keep the SLEEP button pressed to switch through the available time steps one after the other. The time steps are: 90, 80, 70, 60, 50, 40, 30, 20 and 10 minutes.
- 3 Let the SLEEP button go as soon as the required time step appears in the display.
- 4 Wait until the display returns to the normal playback mode. Now SLEEP appears in the display. The sleep timer function is now switched on.
- 5 To switch off the sleep timer function, press the SLEEP button once more. SLEEP will no longer appear in the display.

Childproof protection

Many DVDs and VCDs/S-VCDs are provided with a movie rating. The movie rating states for which age group the contents of the DVD/VCD/S-VCD are intended. The respective movie rating level is mostly printed on the disc cover and/or on the DVD/VCD/S-VCD itself.

The combination unit has multi-level childproof protection. This prevents the playback of DVDs/VCDs/S-VCDs, which are not approved for the input age level.

Switch on the childproof protection

- 1 If a disc is being played back: First of all stop the playback by pressing twice on the STOP button.
- 2 Press the SETUP button to display the OSD menu on the television screen.
- 3 Choose the main menu item PREFERENCES using the control buttons. Then press the ENTER button.
- 4 Select PARENTAL in the list of the subitems.
- 5 Change to the options list with the right hand control button.
- 6 Select between the options using the control buttons:

G

No DVDs/VCDs/S-VCDs with age restrictions/movie ratings over 0 years old can be played back.

PG

NO DVDs/VCDs/S-VCDs with age restrictions/movie ratings over 0 years old can be played back, apart from those which are recommended for parental guidance.

PG-13

No DVDs/VCDs/S-VCDs with a movie rating below 13 years old can be played back.

PG-R

No DVDs/VCDs/S-VCDs with a movie rating below 17 years old can be played back, apart from those which are stipulated for parental guidance.

NC-17

No DVDs/VCDs/S-VCDs with a movie rating below 17 years old may be played back.

ADULT

All DVDs/VCDs/S-VCDs, even those with a movie rating over 18 years old/for adults can be played back.

- 7 Press the ENTER button to confirm your selection. The following is shown on the television screen:

PASSWORD VERIFY PAGE
INPUT PASSWORD [REDACTED]

- 8 Enter the password 3308 set by the factory with the number buttons 0 to 9. Confirm your entry by pressing the ENTER button.
- 9 The input movie rating has now been saved. Return to the list of the subitems.

Note:

The exact function of the childproof protection depends on the individual DVD/VCD/S-VCD. On some DVDs/VCDs/S-VCDs, playback is not at all possible; on others, unsuitable chapters are skipped or replaced by others for the relevant movie rating level.

Please note, in addition, that

- DVDs/VCDs/S-VCDs, which do not have a movie rating printed on them, could still have a movie rating and
 - on some DVDs/VCDs/S-VCDs with a movie rating printed on them, the childproof protection shows no function with the input movie rating level.
- 10 Select MAIN PAGE in the list of subitems. Press the ENTER button to return to the main menu.
 - 11 Select the main menu item EXIT SETUP using the control buttons. Press the ENTER button to exit the OSD menu.

Selecting your own password

You can replace the password 3308, which has been set by the factory, with a four-digit password with digits from 0 to 9, which you can choose yourself. To do this:

- 1 If a disc has been inserted into the combination unit and is being played back at the moment, then stop the playback by pressing the STOP button twice.
- 2 Press the SETUP button to display the OSD menu on the television screen.
- 3 Select the main menu item PREFERENCES using the control buttons. Then press the ENTER key.
- 4 Select PASSWORD in the list of the subitems.
- 5 Change to the only option CHANGE with the right control button.
- 6 Press the ENTER button. The following is shown on the television screen:

PASSWORD CHANGE PAGE
OLD PASSWORD [REDACTED]
NEW PASSWORD [REDACTED]
CONFIRM PWD [REDACTED]

- 7 Firstly, the input field behind OLD PASSWORD is automatically selected. Enter the password 3308, which has been set by the factory, with the number buttons 0 to 9.
- 8 The marking changes automatically to the input field behind NEW PASSWORD. Enter your new password with the number buttons 0 to 9.
- 9 The marking changes automatically to the input field behind CONFIRM PWD. Enter your new password again with the number buttons 0 to 9.
- 10 Press the ENTER button. The list of subitems for the main menu item PREFERENCES is shown on the television screen. Your new password has now been activated.

Setting back the combination unit to the settings made in the factory

Note:

Before setting the unit back to the settings made in the factory: Take into consideration that by setting the values back, each of your settings in the OSD menu will be lost.

To undo all your settings in the OSD menu:

- 1 If a disc has been inserted into the combination unit and is being played back at the moment, then first

of all stop the playback by pressing the STOP button twice.

- 2 Press the SETUP button to display the OSD menu on the television screen.
- 3 Select the main menu item PREFERENCES using the control buttons. Then press the ENTER button.
- 4 Select DEFAULTS in the list of the subitems.
- 5 Change to the only option RESET with the right control button.
- 6 Press the ENTER button. The combination unit will now be set back to the settings made in the factory.

Switching off the combination unit

To switch off the combination unit

- 1 If a disc which has been inserted into the combination unit is being played back, first of all stop the playback by pressing the STOP button twice.
- 2 Open the disc tray to remove any disc inserted into the combination unit by pressing the OPEN/CLOSE button. Then close the disc tray by pressing the OPEN/CLOSE button once more.
- 3 To switch off the combination unit, press the POWER button.

Radio mode

To switch on the radio section of the combination unit:

- 1 Switch on the combination unit with the POWER button.
- 2 Press the TUNER/BAND button to change the combination unit to radio mode.
- 3 Press the TUNER/BAND button again to select the AM band (medium wave).

Press the TUNER/BAND button once more to select the FM band (very high frequency).

- 4 Use the SKIP forwards and SKIP backwards buttons to set a radio station in the selected band.

Saving radio station

To save a previously selected radio station:

- 5 Press the MEMORY button.

- 6 00 flashes in the display. Select a memory slot for the radio station with the number buttons 0 to 9.

You can enter a memory slot number between 1 and 40. Two-digit memory slot numbers can be entered with the 10+ button and the number buttons 0 to 9.

Example: If you would like to select the memory slot number 21, press twice on the 10+ button. Then press the number button 1.

- 7 Repeat the steps 4 to 6 to save other radio stations.

To pick up radio stations:

- 1 Switch on the combination unit with the POWER button.
- 2 Press the TUNER/BAND button to change the combination unit to radio mode.
- 3 Press the TUNER/BAND button again to select the AM band (medium wave). Press the TUNER/BAND button once more to select the FM band (very high frequency).
- 4 To call up a saved radio station:
 - With the radio section switched on, press the number button corresponding to the memory slot number or
 - Use the PAUSE/MEM UP or REPEAT/MEM DN buttons to switch through the memory slot numbers one after the other.

Improving the reception of FM/very high frequency radio stations

To improve the reception of radio stations in the FM/VHF band: Unwind the dipole antenna on the back of the combination unit to its full length. Hold the end of the dipole antenna slowly in different directions. Once you have found a good reception for the input radio station in this manner: Fix the dipole antenna in this position, e. g. with a piece of adhesive tape.

Improving the reception of AM/medium wave radio stations

To improve the reception of radio stations in the AM/medium wave band: Turn the loop antenna connected to the combination unit slowly in different directions. Once you have found a good reception for the input radio station in this manner: Set up the loop antenna in this position.

DVD/VCD/S-VCD mode

Playing back DVDs, VCDs or S-VCDs

To play back a DVD/VCD/S-VCD with the combination unit:


- 1 Ensure that you
 - have connected the combination unit properly to the television and
 - all necessary settings have been carried out in the OSD menu of the combination unit.
- 2 Switch on the television to which the combination unit is connected.
- 3 Switch on the combination unit with the POWER button.
- 4 Open the tray of the combination unit with the OPEN/CLOSE button.
- 5 Insert a DVD/VCD/S-VCD into the disc tray with the labelled side upwards.

Note:

DVDs, VCDs and S-VCDs, which you would like to play back with the combination unit, possibly have a country code which is printed on the DVD cover.

The combination unit can only play back DVDs/VCDs/S-VCDs with the country code 2.

If there is no country code printed on the cover of a DVD/VCD/S-VCD

- but instead the symbol , then the DVD/VCD/S-VCD can be played back with the combination unit
 - then the DVD/VCD/S-VCD can possibly not be played back by the combination unit. Check this by trying to play back the DVD.
- 6 Close the disc tray by pressing the OPEN/CLOSE button.
 - 7 The contents of the inserted DVD/VCD/S-VCD is now being loaded; this can last for several seconds.
 - 8 The playback of the inserted DVD/VCD/S-VCD starts automatically.

Depending on the inserted DVD/VCD/S-VCD, it is possible that the contents are not played back immediately, as first of all a disc menu appears on the television screen. The disc menu allows you e. g.

- to select the language for the subtitles and film sound
- the direct selection of chapters
- the playback of bonus material on the film (background information, making of etc.)


If a disc menu appears on the television screen:

- 1 Select the menu item using the control buttons with which the playback of the DVD/VCD/S-VCD contents is started.
- 2 Then press the ENTER button to start the playback.

Also look at chapter "Calling up disc menu" for more information on this subject.

Functions when playing back a DVD, VCD or S-VCD

Note:

The functions described below are perhaps not available on all DVDs/VCDs/S-VCDs! If you try to carry out functions which are not available, it is  displayed on the television screen.

During the playback of a DVD/VCD/S-VCD, you can use the following functions of the combination unit:

To pause playback (Pause)

To pause the playback of the inserted DVD/VCD/S-VCD:

- 1 During the playback press the PAUSE button. On the television screen you can see the fixed image of the scene which has just been paused.
- 2 To continue the playback, press the PLAY button.

Stopping the playback (Stop)

To stop the playback of the inserted DVD/VCD/S-VCD, press the STOP button.

Playback stop with resume function

The combination unit automatically saves the position at which the playback was stopped. This function is called resume function. If you press the PLAY button once more, then the playback will continue at the saved position.

Playback stop without resume function

The saved position is deleted if you press the STOP button a second time. If you press the PLAY button once more, then the playback starts at the beginning of the inserted DVD/VCD/S-VCD.

Calling up disc menu (Menu)

If a disc menu exists on the inserted DVD/VCD/S-VCD: Press the MENU button during playback to call up the disc menu. Select the individual menu items using the control buttons. Press the ENTER button to select the chosen menu item.

Rapid search forwards/backwards

To select certain passages within the contents of the DVD/VCD/S-VCD with rapid search:

- 1 Press the FWD button during playback for rapid search forwards
 - once for double search speed. FF 2x is displayed on the television screen.
 - twice for fourfold search speed. FF 4x is displayed on the television screen.
 - three times for sixfold search speed. FF 6x is displayed on the television screen.
 - four times for eightfold search speed. FF 8x is displayed on the television screen.
- 2 For rapid search backwards press the RWD key during playback
 - once for double search speed. FF 2x is displayed on the television screen.
 - twice for fourfold search speed. FF 4x is displayed on the television screen.
 - three times for sixfold search speed. FF 6x is displayed on the television screen.
 - four times for eightfold search speed. FF 8x is displayed on the television screen.

Note:

There is no sound during the rapid search.

- 3 To continue playback at a normal speed, press the PLAY button.

Slow motion playback forwards/backwards (Slow)

To play back the contents of the inserted DVD/VCD/S-VCD in slow motion:

- 1 During playback press the SLOW button

- once for double slow motion forward playback. SF 2x is displayed on the television screen.
- twice for fourfold slow motion forward playback. SF 4x is displayed on the television screen.
- three times for eightfold slow motion forward playback. SF 8x is displayed on the television screen.
- four times for double slow motion backwards playback. SR 2x is displayed on the television screen.
- five times for fourfold slow motion backwards playback. SR 4x is displayed on the television screen.
- six times for eightfold slow motion backwards playback. SR 8x is displayed on the television screen.

Note:

During slow motion playback there is no sound.

- 2 To continue playback at a normal speed, press the PLAY button.

Frame by frame advance (Step)

You can look through the contents of an inserted DVD/VCD/S-VCD frame by frame. To do this:

- 1 Press the PAUSE button to pause the playback.
- 2 Press the STEP button to move one frame forward at a time.
- 3 To continue playback press the PLAY button.

Picture enlargement (Zoom)

You can enlarge the picture on the television screen during playback in three steps. To do this:

- 1 Press the ZOOM button on the remote control
 - once for the first enlargement step. ZOOM x1.5 is displayed on the television screen.
 - twice for the second enlargement step. ZOOM x2 is displayed on the television screen.
 - three times for the third enlargement step. ZOOM x3 is displayed on the television screen.
- 2 To switch off the enlargement function press the ZOOM button a fourth time. ZOOM OFF is displayed on the television screen.

Change the angle of the camera (Angle)

Some DVDs/VCDs/S-VCDs contain scenes which can be recorded at the same time from different camera angles. You can look at such scenes with the angle function from different perspectives.

To do this, press the ANGLE button during playback. Each time you press the ANGLE button, it switches over to one of the available camera angles.

Showing/hiding subtitles

If subtitles are available on the inserted DVD/VCD/S-VCD:

- 1 Press the SUBTITLE button once, to show the subtitles in the first language available. Press the SUBTITLE button several times to show the subtitles in other languages.
- 2 The selected subtitle language and its number is shown on the television screen (e. g. 01/10: ENGLISH for the first of ten available subtitle languages).
- 3 To switch off the display of subtitles: Press the SUBTITLE button again, when the last of the available subtitle languages has been shown (e. g. 10/10 for the tenth of ten available subtitle languages).

Changing playback language

On many DVDs/VCDs/S-VCDs you can select another playback language during playback. To do this press the AUDIO button.

When you press the AUDIO once, the first available playback language is switched on. Every time you press the AUDIO button again, other available playback languages will be switched on one after the other.

Showing disc information

You can show all information about a DVD/VCD/S-VCD on the television screen during the playback. To do this:

- 1 Press the DISPLAY button on the remote control. The following is shown on the television screen:
 - the number of the title and chapter currently being played back
 - the amount of time already played back of the entire DVD/VCD/S-VCD content in hours, minutes and seconds
- 2 If you press the DISPLAY button a second time:
 - the time until the end of the title currently being played back, in hours, seconds and minutes
- 3 If you press the DISPLAY button a third time:

- the amount of time already played back of the chapter currently being played back in hours, seconds and minutes
- 4 If you press the DISPLAY button a fourth time:
 - the time until the end of the chapter currently being played back in hours, seconds and minutes
 - 5 To hide the disc information, press the DISPLAY button once more.

Selecting chapters

What are titles and chapters? Please look at the chapter "Glossary/Index" for more information on this subject.

You can select chapters on an inserted DVD/VCD/S-VCD in the following ways:

Skip to the beginning of the chapter (Skip)

With the SKIP forwards and SKIP backwards buttons you can skip throughout the contents of the DVD/VCD/S-VCD

- forwards to the beginning of the next chapter or
- backwards to the beginning of the chapter currently being played back

The selected chapter is played back immediately without you having to press the PLAY button. The number of the chapter appears in the display of the combination unit on the left of the playback time.

Selecting chapters with chapter numbers

To select a chapter by entering its chapter number:

- 1 Press the GOTO button on the remote control during playback. The GOTO menu is shown on the television screen:

TITLE 01/03 CHAPTER 001/020

- 2 Enter the required chapter number with the number buttons 0 to 9 in the marked input field.

Example: If you would like to select chapter number 3, then press the number button 3.

Enter two-digit chapter numbers with the 10+ button and the number buttons 0 to 9.

Example: If you would like to select chapter number 21, press the 10+ button twice. Then press the number button 1.

- 3 Press the ENTER button. Playback will be continued at the beginning of the selected chapter.

Select passages of chapters according to time positions

To select a passage of a chapter by entering its time position on the DVD/VCD/S-VCD:

- 1 During playback, press the GOTO button on the remote control twice. The GOTO menu is shown on the television screen:

TITLE 01/03 TIME _: _: _:

- 2 Enter the time position with the number buttons 0 to 9 in the marked input field.

Example: To start playback 1 hour, 5 minutes and 30 seconds after the beginning of the DVD/VCD/S-VCD content: Press the number buttons one after the other

- 0, 1 for 1 hour
- 0, 5, for 5 minutes
- 3, 0 for 30 seconds

- 3 Press the ENTER button to start the playback at the selected time position.

Repeat playback

With the repeat playback function you can repeat alternatively the title or chapter of the inserted DVD.

- 1 To repeat the chapter currently being played back: During the playback, press the REPEAT button once. CHAPTER REPEAT ON is shown on the television screen.
- 2 To repeat the title currently being played back: During playback, press the REPEAT button twice. TITLE REPEAT ON is shown on the television screen.
- 3 To switch off the repeat playback: Press the REPEAT button several times until REPEAT OFF is shown on the television screen.

Repeating sequences

With this function you can repeatedly play back any sequences within the chapter currently being played back.

To do this:

- 1 Press the A-B button, as soon as the start of the required sequence is played back. A TO B SET A is shown on the television screen.

- 2 Press the A-B button again as soon as the end of the required sequence is played back. Please note that the beginning and the end of a sequence must be within one chapter. A TO B SET B is shown on the television screen.

The repeated playback of the selected sequence begins immediately. The sequence is repeated again and again until the A-B button is pressed again. A TO B CANCELLED is then shown on the television screen.

Audio CD mode

Playing back of audio CDs

To play back audio CDs with the combination unit:

- 1 Open the disc tray of the combination unit with the OPEN/CLOSE button.
- 2 Insert an audio CD with the labelled side upwards in the disc tray.
- 3 Close the disc tray with the OPEN/CLOSE button.
- 4 The contents of the inserted audio CD is now being loaded; this can last for a few seconds.
- 5 As soon as the contents of the inserted audio CD has been loaded, playback begins automatically.

Functions when playing back audio CDs

During the playback of an audio CD you can use the following functions on the combination unit:

Pause playback (Pause)

- 1 To pause the playback of a title, press the PAUSE button during playback.
- 2 To continue the playback of the title, press the PLAY button.

Stop playback (Stop)

To stop the playback of a title, press the STOP button.

Playback stop with resume function

The combination unit automatically saves the position at which the playback was stopped. This function is called resume function. If you press the PLAY button once more, then the playback will continue at the saved position.

Playback stop without resume function

The saved position is deleted if you press the STOP button a second time. Press the PLAY button once more, then the playback will begin with the first title of the audio CD.

Select titles

You can select titles on an inserted audio CD in the following ways:

Skipping to the beginning of the title (Skip)

With the SKIP forwards and SKIP backwards buttons during the playback of a title you can skip

- forwards to the beginning of the next title or
- backwards to the beginning of the title currently being played back.

The selected title is played back immediately without you having to press the PLAY button. The number of the title is shown in the display of the combination unit on the left of the play back time.

Selecting a title using the number buttons

To select a title directly by entering the title number with the number buttons:

- 1 Press the number button on the remote control corresponding to the title number.

Example: If you would like to select title number 3, press the number button 3.

Two-digit title numbers are entered with the 10+ button and the number buttons 0 to 9.

Example: If you would like to select title number 21, then press the 10+ button twice. Then press the number button 1.

The input numbers are shown on the television screen.

- 2 The playback of the title with the input number now begins automatically.

Selecting passages of titles with time positions

To select a certain passage of a title by inputting its time position:

- 1 Press the GOTO button during the playback of the title. The GOTO menu is shown on the television screen:

GOTO _ _ : _ _

- 2 Enter the time position with the number buttons 0 to 9 in the marked input field.

Example: You would like to select a passage, which begins one minute after the beginning of the title. Press the number buttons one after the other

- 0, 1 for 1 minute;
- 0, 0 for 0 seconds

- 3 The playback continues immediately at the selected time position.

Programmed playback

With this function you can put together selected titles of an audio CD as a title sequence. You can decide on the sequence in which the titles are played back. To use the programmed playback:

- 1 If a title is being played back: First of all stop the playback by pressing the STOP button twice.
- 2 Press the MEMORY button.
- 3 Select the first title to be programmed with the number buttons 0 to 9. This title is now displayed as the first programmed title on the television screen.

Example: Once you have programmed the fifth title, PROGRAM 01:05 is displayed.

Two-digit title numbers are entered with the 10+ button and the number buttons 0 to 9.

Example: If you would like to select title number 21, press the 10+ button twice. Then press the number button 1.

- 4 Repeat step 3 until you have programmed all the required titles.
- 5 Press the PLAY button to start the playback of the programmed titles.
- 6 To delete the programmed title sequence: Press the STOP button. Then press the MEMORY button twice.

Repeat playback

You can repeatedly play back both

- a single title and also
- the whole audio CD

with this function. To switch on the repeat playback:

- 1 Press the REPEAT button during playback. REP-ONE is displayed on the television screen. The title currently being played back is now repeatedly played back, until the repeat playback is switched off.
- 2 Press the REPEAT button a second time. REP-ALL is displayed on the television screen. The entire audio CD is now repeatedly played back until the repeat playback is switched off.
- 3 To switch off the repeat playback, press the REPEAT button a third time. REPEAT OFF is displayed on the television screen.

Repeating sequences

With this function you can repeatedly play back any sequences of the title currently being played back. To do this:

- 1 Press the A-B button as soon as the beginning of the required sequence is played back. A TO B SET A is shown on the television screen.
- 2 Press the A-B button again as soon as the end of the required sequence has been played back. Take note that the beginning and the end of the sequence must be within one title. A TO B SET B is shown on the television screen.

The repeat playback of the selected sequence begins immediately. The sequence is repeated again and again until the A-B button is pressed again. A TO B CANCELLED is shown on the television screen.

MP3/JPEG mode

Information on the JPEG mode:

Only JPEG files with a resolution of max. 1600 x 1200 pixels can be played back. JPEG files with a higher resolution cannot be played back.

Playback MP3/JPEG files

To play back CD-Rs/CD-RWs with MP3 and JPEG files with the combination unit:

- 1 Open the disc tray of the combination unit with the OPEN/CLOSE button.
- 2 Insert a CD-R/CD-RW with MP3/JPEG files with the labelled side upwards in the disc tray.
- 3 Close the disc tray with the OPEN/CLOSE button.

- 4 The contents of the inserted CD-R/CD-RW is now being loaded; this can last a few seconds.
- 5 As soon as the content of the inserted CD-R/CD-RW has been loaded, it is played back automatically.

Functions when playing back MP3/JPEG files

The following functions are available during the playback of CD-Rs/CD-RWs with MP3 and JPEG files:

Pause playback (Pause)

- 1 To pause the playback of a file, press the PAUSE button during playback.
- 2 To continue playing back the file, press the PLAY button.

Stop playback (Stop)

To stop the playback of a file, press the STOP button.

Playback stop with resume function

The combination unit automatically saves the position at which the playback is stopped. This function is called resume function. If you press the PLAY button once more, then the playback will continue at the saved position.

Playback stop without resume function

The saved position is deleted if you press the STOP button a second time. If you press the PLAY button once more, then the playback of the first file/of the first file in the first sub-folder of the CD-R/CD-RW starts.

Selecting a file

You can select files on an inserted CD-R/CD-RW in the following ways:

Skip to the beginning of the title (Skip)

With the SKIP forwards and SKIP backwards buttons you can skip throughout the contents of the CD-R/CD-RW during the playback

- forwards to the beginning of the next file or
- backwards to the beginning of the file currently being played back

The selected file is played back immediately without you having to press the PLAY button. The number of the file is shown in the display of the combination unit on the left of the playback time.

If folders exist:

In this case you can only skip throughout the sub-file currently selected

- forwards to the beginning of the next file or
- backwards to the beginning of the file currently being played back

Selecting files with number buttons

To select a file directly by entering the file number with the number buttons:

- 1 Press the number button on the remote control corresponding to the file number.

Example: If you would like to select file number 3, then press the number button 3.

Two-digit file numbers are entered with the 10+ button and the number buttons 0 to 9.

Example: If you would like to select file number 21, then press the 10+ button twice. Then press the number button 1.

The input numbers are shown on the television screen.

The playback of the file with the input number now begins automatically.

If folders exist:

With the number buttons you can only select files to be played back which are within the current sub-folder.

Only to play back MP3: Select file passages using time position

To select a certain passage of a file by entering its time position:

- 1 Press the GOTO button while the file is being played back. The GOTO menu is shown on the television screen:

GOTO _ : _ _

- 2 Enter the time position in the marked input field with the number buttons 0 to 9.

Example: You would like to select a passage which starts one minute after the beginning of the file. Press the number buttons one after the other

- 0, 1 for 1 minute;
- 0, 0 for 0 seconds

- 3 Playback is continued immediately at the selected time position.

Only to play back MP3: Repeating sequences (A-B)

You can repeatedly play back any sequence of the file currently being played back with this function. To do this:

- 1 Press the A-B button as soon as the beginning of the required sequence is played back. A TO B SET A is shown on the television screen.
- 2 Press the A-B button again as soon as the end of the required sequence has been played back. Please note that the beginning and the end of the sequence have to be within one file. A TO B SET B is shown on the television screen.

The repeat playback of the selected sequence starts immediately. The sequence is repeated again and again until the A-B button is pressed again. A TO B CANCELLED is shown on the television screen.

Only to play back JPEG: Rotating pictures

During the picture display you can rotate the picture currently being shown in 90° steps. To do this:

- 1 Press the ANGLE button. Every time you press the ANGLE button, the current picture is rotated by 90°. Each selected rotation step – between 90° and 270° – is shown on the television screen.
- 2 Press the ANGLE button again when a picture has been rotated by 270°; the picture will now be displayed in its original position.

Operating the SMART NAVI menu

If you have selected the option MIT MENÜ in the subitem SMART NAV of the OSD menu: The SMART NAVI menu will be shown on the television screen as soon as the content of a MP3/JPEG CD-R/CD-RW has been loaded.

Note:

MP3 and JPEG files on CD-Rs/CD-RWs can be stored in folders. This can e. g. be useful to organise files from different genres. The following steps are therefore described both for MP3/JPEG CD-Rs/CD-RWs with and without folder structure.

Please look at the chapter "Glossary/Index" for more information on this subject.

In the SMART NAVI menu the following are displayed:

If no folders exist:

SMART NAVI		
ROOT	ROOT	0
	ABC 1	1
	ABC 2	2
PLAY MODE		FOLDER

- on the left hand side, the main folder ("Root") on the inserted CD-R/CD-RW
- on the right hand side, all files on the inserted CD-R/CD-RW (called ABC 1 and ABC 2 here)
- below the mode selection bar

Please go directly to step 4 and continue reading 4.

If folders exist:

SMART NAVI		
ROOT	ROOT 0	
	FOLDER 1	1
	FOLDER 2	2
PLAY MODE		FOLDER

- on the left hand side, the main folder ("Root") on the inserted CD-R/CD-RW
- on the right hand side, all sub-folders with files on the inserted CD-R/CD-RW (called Folder 1 and Folder 2 here)
- below the mode selection bar

Firstly the first sub-folder on the right hand side is selected automatically.

- 1 Change between the individual sub-folders using the control buttons.
- 2 Press the ENTER button to display the contents of a selected folder.
- 3 The following is now displayed in the SMART NAVI menu:

SMART NAVI		
ROOT	...	0
FOLDER 1	ABC 1	1
FOLDER 2	ABC 2	2
FOLDER 3	ABC 3	3
PLAY MODE		FOLDER

- on the left hand side, all sub-folders with files (numbered in sequence) on the inserted CD-R/CD-RW
 - on the right hand side, all files (numbered in sequence) within the sub-folder currently selected
- 4 Change to the list of files using the control buttons. Also use the control buttons to change between the individual files on the list. Press the ENTER button to select a file for playback. The selected file is now played back.

Changing folders (If folders exist)

Would you like to play back files from another sub-folder, then first of all change from the current folder to the required folder. To do this:

- 1 If a file is being played back, first of all stop the playback by pressing the STOP button twice.
- 2 Change from the list of files to the list of sub-folders using the control buttons.
- 3 Select the sub-folder to which you would like to change using the control buttons.
- 4 Confirm your selection with the ENTER button.
- 5 In the menu, the list of the files in this sub-folder will be displayed again on the right.
- 6 Select a new file for playback using the control buttons and the ENTER button.
- 7 To get back to the main directory: Change from the list of files to the list of sub-folders using the control buttons. Select the root folder using the control buttons. Press the ENTER button. Now the main directory is displayed again.

Selecting playback mode (Play Mode)

To play back MP3 or JPEG files you can choose the following playback modes:

FOLDER

If no folders exist:

All files on the CD-R/CD-RW are played back one after the other. The playback finishes with the last file on the CD-R/CD-RW.

If folders exist:

All files in the current sub-folder are played back one after the other. The playback finishes with the last file in the current sub-folder.

FOLDER REP

If no folders exist:

All files on the CD-R/CD-RW are played back one after the other. After the last file the playback begins again with the first file on the CD-R/CD-RW.

If folders exist:

All files in the current sub-folder are played back one after the other. After the last file the playback of the first file in the sub-folder begins again.

The folder is continually repeated until you stop the playback by pressing the STOP button.

DISC SCAN

This mode provides you with a quick overview of all files on an inserted CD-R/CD-RW.

If no folders exist:

The files on the CD-R/CD-RW are played for a few seconds one after the other. The playback finishes with the last file on the CD-R/CD-RW.

If folders exist:

All files in the sub-folders on the CD-R/CD-RW are played back for a few seconds one after the other. The playback finishes with the last file in the last sub-folder.

DISC

If no folders exist:

All files on the CD-R/CD-RW are played back one after the other. The playback finishes with the last file on the CD-R/CD-RW.

If folders exist:

All files in the sub-folders on the CD-R/CD-RW are played back one after the other. The playback finishes with the last file in the last sub-folder.

DISC REP

If no folders exist:

All files on the CD-R/CD-RW are played back one after the other. After the last file the playback begins with the first file on the CD-R/CD-RW.

If folders exist:

All files in all sub-folders on the CD-R/CD-RW are played back one after the other. After the last file in the last sub-folder the playback begins again with the first file in the first sub-folder.

The disc continues to be repeated until the playback is stopped by pressing the STOP button.

RANDOM

If no folders exist:

All files on the CD-R/CD-RW are played in random order.

If folders exist:

All files in the current sub-folder are played in random order.

The RANDOM playback is continued until the playback is stopped by pressing the STOP button.

SHUFFLE ON

If no folders exist:

All files on the CD-R/CD-RW are played in random order. The random playback is continued until each file on the CD-R/CD-RW has been played once.

If folders exist:

All files in the current sub-folder are played in random order. The random playback is continued until each file in the current sub-folder has been played once.

PROGRAM PO

If no folders exist:

With this function you can select certain files on the CD-R/CD-RW for programmed playback. You can determine the order in which the files are played back.

If folders exist:

With this function you can select certain files in the current sub-folder for programmed playback. You can determine the order in which the files are played back.

To operate the programmed playback function, go to the corresponding chapter and continue reading.

SINGLE

The currently selected file is played back once.

REP-ONE

The currently selected file is played back repeatedly. The repeat playback is continued until you stop the playback by pressing the STOP button.

Selecting playback mode

- 1 If a file is being played back, first of all stop the playback with the STOP button.
- 2 Change from the list of the files to the mode selection bar with the right control button. Firstly the FOLDER playback mode is selected automatically.
- 3 You switch through the different playback modes with the up and down control buttons.
- 4 If the required playback mode is displayed, then exit the mode selection bar with the left control button. The marking is now in the list of the files of the selected sub-folder again.
- 5 To start the playback in the set mode, press the PLAY button. The playback starts with the marked file in the list of files.

Programmed playback (Program)

If you have selected the PROGRAM PO mode, to select several files for programmed playback:

- 1 Change back to the list of the files of the current sub-folder using the control buttons.
- 2 Select the first file to be programmed using the control buttons.

Note:

If folders exist: You can only select files for programmed playback from the currently selected sub-folder. Files from different sub-folders can not be selected for programmed playback.

- 3 Confirm the selection by pressing on the ENTER button on the remote control. The selected file is now displayed as the first programmed file on the top of the SMART NAVI menu,.

Example: If you have programmed the fifth file (in the current sub-folder), then Program 01:0005 is displayed.

- 4 Repeat steps 1 and 2, until all required files have been programmed.
- 5 Then press the STOP button. PROG-END is displayed in the mode selection bar.
- 6 Press the PLAY button to start the playback of the programmed files.
- 7 To delete the programmed playback, change to another playback mode.

Cleaning the combination unit

Clean the casing of the combination unit only with a slightly damp cloth and a mild detergent. Pay attention that no moisture enters into the combination unit!

Clean the inside of the disc tray – if necessary – only with a clean dry brush (e. g. lens brush, can be bought in specialised camera shops). Never clean the inside of the disc tray with a wet cloth!

Warning!

If moisture penetrates into the combination unit, there is a risk of getting an electric shock! In addition this can cause irreparable damage to the combination unit!

To rectify malfunctions and errors

Nothing appears on the display/ combination unit shows no function, although it is switched on

- A Check whether the power cord has been plugged into the power socket properly.
- B Check whether the power socket, in which you have plugged the power cord of the combination unit, has electric current, by connecting another device to the power socket. If necessary, plug in the power cord of the combination unit into another power socket.

- C** Switch off the combination unit by pressing the POWER button and then wait ten seconds. Then switch the combination unit back on, by pressing the POWER button again.

Display shows No Disc, although a disc has been inserted

- A** The disc is dirty, scratched or damaged.
- B** The country code of the inserted DVD/VCD/S-VCD does not match the country code of the combination unit. The DVD/VCD/S-VCD cannot be played on the combination unit.

Inserted disc is not being played back

A film of condensation has probably formed on the laser scanning lens of the combination unit. This can be the case, in particular, if the combination unit has been exposed to severe fluctuations in temperature.

In this case put the combination unit in a dry environment with a normal room temperature. First of all remove any possible inserted disc from the disc tray. Then leave the combination unit switched on for at least one hour without using it until the film of condensation has evaporated.

No picture or black and white picture

- A** Check whether the connecting cable(s) between the combination unit and the television are firmly plugged into the corresponding jacks.
- B** Check whether the settings in the OSD menu item VIDEO OUTPUT match the connecting variant with which you have connected the combination unit to the television.
- C** Check the operating instructions of the television to see, whether possible adjustments are necessary on the television, to be able to use the combination unit with the television.

No sound

- A** Check whether the television and/or combination unit are possibly switched to mute.
- B** Check whether all the connecting cables between the combination unit, surround loudspeakers and sub-woofer are plugged in firmly into the corresponding terminals/jacks. In addition check whether the sub-woofer is switched on.
- C** Check the operating instructions of the television to see, whether possible adjustments are necessary on

the television, to be able to use the combination unit with the television.

- D** Check the operating instructions of any possible connected audio component, whether adjustments are necessary, to be able to use this component with the television.
- E** If you
- have connected the combination unit to a stereo television, but not to an audio component or
 - have connected the combination unit to a Dolby Prologic compatible audio component via the analog stereo output (with a cinch cable to the AUX IN L and R cinch jacks)

then check whether in the OSD menu item SPEAKER SETUP, the stereo downmix has been switched on.

No 4:3 or 16:9 picture

Check the operating instructions of the television to find out which picture format the television has.

Then check whether the settings in the OSD menu item TV DISPLAY match the available picture formats of the television.

Remote control without function


- A** Check whether the batteries in the remote control have been put into the battery compartment with the correct polarities.
- B** Check whether the batteries in the remote control are exhausted and if necessary change both batteries.
- C** Ensure that there are no obstacles between the remote control and the combination unit.
- D** Do not move more than 5 meters away from the combination unit when using the remote control.

Playback language/Subtitle language does not correspond to the language in the settings in the OSD menu

The playback language/subtitle language input in the OSD menu is not available on the inserted disc.

One or more functions cannot be switched on

Not all functions are available on the combination unit with all DVDs/VCDs/S-VCDs, audio CDs and also CD-Rs/CD-RWs with MP3 and JPEG files. Functions, which cannot be

switched on, are display by the symbol  appearing on the television screen.

No button on the unit or on the remote control works/other malfunctions

- A** Switch off the combination unit with the POWER button. Wait ten seconds and the press the POWER button once more to switch on the combination unit again.
- B** If the malfunction still occurs afterwards: Set the combination unit back to the settings made in the factory. To do this, look at the chapter "Setting the combination unit back to the settings made in the factory".

Consult one of our service partners in your neighbourhood if

- the described malfunctions cannot be rectified as described or
- other malfunctions which have not been described occur.

Warning!

Never open the casing of the combination unit! The unit does not have any parts that can be maintained by the user! If the casing of the unit is opened then the guarantee expires!

No liability/guarantee will be assumed for damages which arise from opening the casing of the unit or from trying to repair the unit and which are not carried out by specialized qualified personnel!

Glossary/Index

What are DVDs, VCDs and S-VCDs?

DVDs

DVD is the abbreviation for Digital Versatile Disc. DVDs serve to store audio and video data; they are available in 8 cm and 12 cm (diameter) formats. DVDs offer – thanks to their storage capacity which is many times higher than CDs/CD-RWs – a playback duration of the audio and video data stored on them of up to eight hours.

VCDs/S-VCDs

Video-CD (VCD) and Super Video-CD (S-VCD) describe two methods for compressed – i.e. to save space – storage of films on CDs. VCDs and S-VCDs are available in 8 cm and 12 cm (diameter) formats. Their storage capacity is many times lower than that of DVDs. Therefore they only offer a playback duration of the audio and video data stored on

them of 20 minutes (8 cm format) and 74 minutes (12 cm format) respectively

There are two versions of VCDs:

- Version 1.1 VCDs/S-VCDs can only play audio and video data.
- Version 2.0 VCDs/S-VCDs have so-called PBC (Playback Control) functions. In addition, fixed images with higher resolution can be played back

What are titles and chapters?

The largest units of picture and sound units on DVDs are called titles; on many DVDs, the (main) film has title number 01. For bonus material (e. g. film trailers, background information etc.), which is available on many DVDs, other title numbers can possibly be used.

The next smallest picture and sound units below titles are called chapters. If the title(s) of a DVD is(are) subdivided into chapters, then numbers are allocated to them and if these numbers are entered, then the chapters can be selected directly.

Please note that not on all DVDs

- is(are) the title(s) subdivided in (numbered) chapters
- are the chapters also described as scenes (e. g. in the main menu of DVDs)

What are Scart, S-Video, composite video?

Scart

Scart describes a 21-pin standard plug-type connection through which the RGB signals, video signals and S-Video signals as well as quite a few control and additional signals are transmitted.

S-Video

When connecting a DVD player to a television via S-Video, brightness and colour signals are separated; this achieves a higher focus and a lower so-called "coloured noise". Coloured noise is what one calls the overlaying of the coloured, mostly strongly saturated parts of a video image made by an irregular, turbulent structural disturbance.

Composite video

Video signal or FBAS signal; this is a picture signal in which both colour and brightness information is contained simultaneously.

Decoder

The sound on DVDs with home cinema surround sound is stored in a coded form on the DVD. There are different coding formats for different purposes, e. g. AC-3 to play Dolby Digital surround sound. To be able to play coded sound, the playback unit (e. g. the combination unit) must have a so-called decoder, which transforms the coded signals back into music or sound.

The eBench KH 2370 combination unit has an AC-3 decoder (for Dolby Digital 5.1 surround sound signals).

Dolby Surround

Dolby Surround is an analog sound format whereby the two channels of a stereo sound signal are used to accommodate surround sound information for other channels. With a Dolby Surround Decoder, the signals are transformed back into sound or music and are conducted to two additional loudspeakers, which are to be placed behind the listening position.

Dolby Prologic

By comparison with the Dolby surround sound format, in the case of Dolby Prologic a further channel is used in the stereo signal; this is the so-called "Center" channel. The corresponding center loudspeaker is to be placed in the centre between the stereo loudspeakers. The lowest tones are to be conducted to a low tone loudspeaker, the so-called "subwoofer". The subwoofer can be placed at any position in the room; the reason for this is that the low tones which are emitted by the subwoofer, can scarcely be exactly located by the human ear.

Dolby Digital (5.1)

Dolby Digital, also called AC3, is a digital sound format, by which up to six separate audio channels can be transported. In the case of most of the current DVDs, the sound is stored in the so-called "Dolby Digital 5.1" format; the "5" in the description "5.1" stands for three front and two back surround sound channels, the "1" for the low tone channel.

What are PAL, NTSC and SECAM?

PAL

PAL is the abbreviation for Phase Alternation Line. PAL is in Central and Western Europe (exception: France, see abbreviation SECAM), the normal and commonly used colour television standard.

NTSC

NTSC is the abbreviation for National Television System Committee. NTSC is a colour television standard which is used, above all, in the USA and in Japan.

SECAM

SECAM is the abbreviation for the French "système en couleur avec mémoire". SECAM is the normal and most commonly used colour television standard in France and many Eastern European countries.

Audio CDs

Audio CDs only contain audio data; these are also available with 8 cm and 12 cm (diameter) formats. The playback duration of the audio data stored on them is 20 minutes (8 cm format) and 74 minutes (12 cm format) respectively. Audio data with CDA format are stored on audio CDs.

MP3

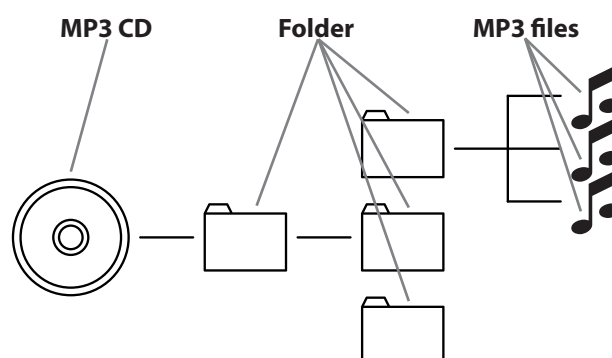
MP3 describes a procedure or format to compress audio data developed by the Fraunhofer Institut. Pieces of music compressed in MP3 format only have a fraction of their original size, which allows far more music to be stored e. g. on CD-Rs/CD-RWs than on normal audio CDs, on which audio data is stored in CDA format.

JPEG

JPEG (abbreviation of Joint Photographics Expert Group) describes a commonly used graphic format developed by the same named organisation, with which picture data in coloured and grey tones is compressed.

What are folders?

In contrast to audio CDs, the titles of a CD-R/CD-RW with MP3 or JPEG files can be stored in folders, for example, to organize titles from different genres. If the MP3 files were stored in folders, then the structure of an MP3 CD can look like the following, for example:



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