

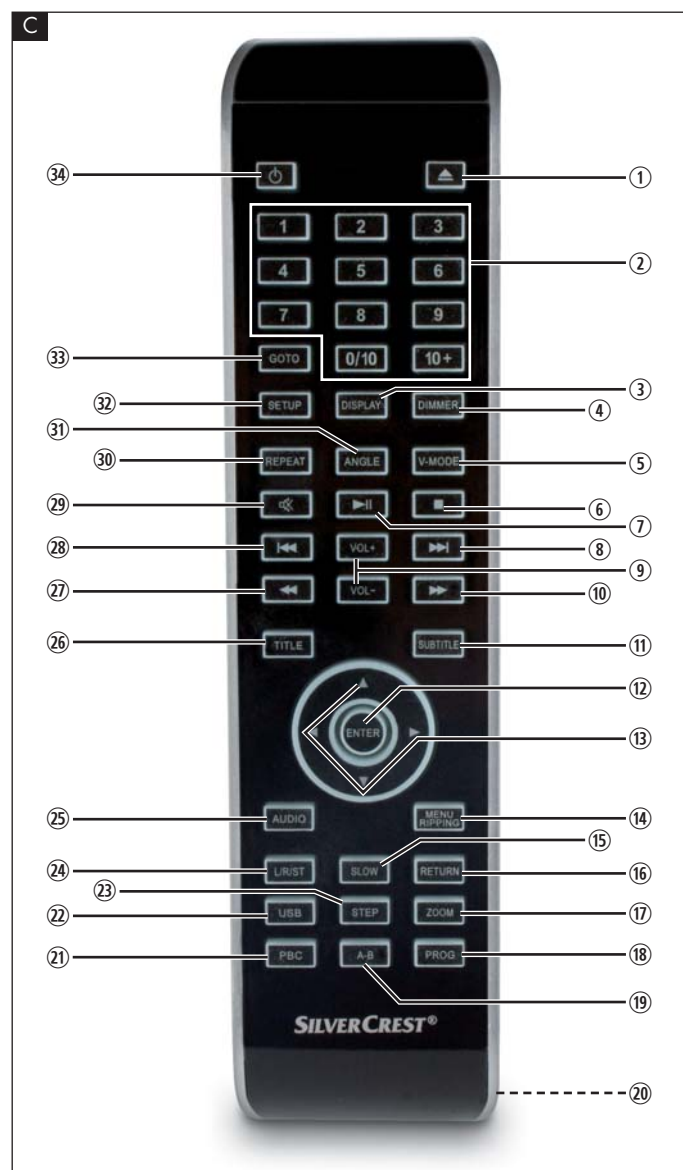
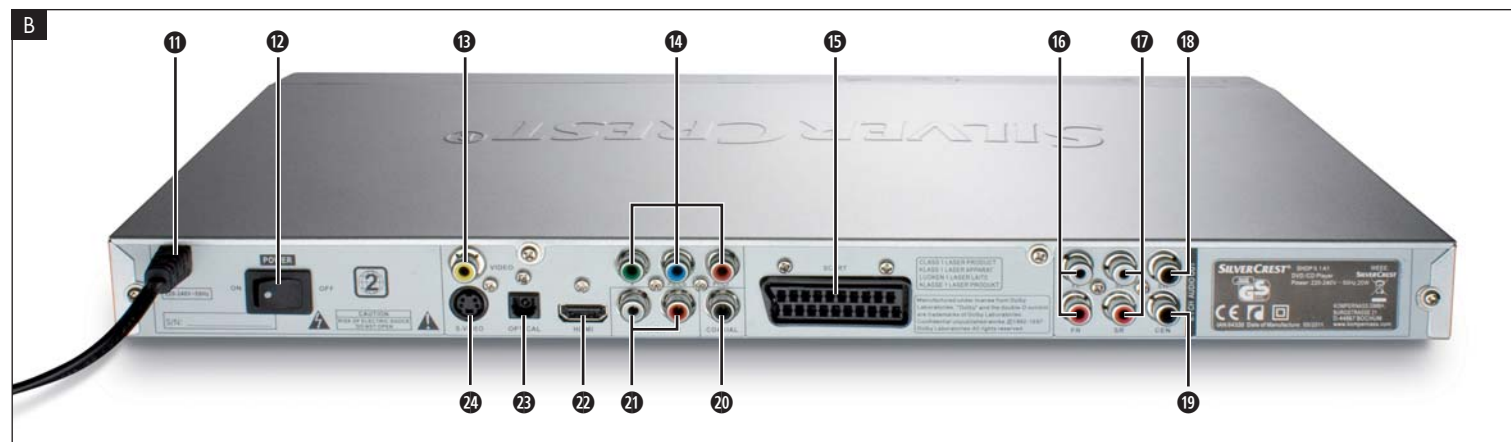
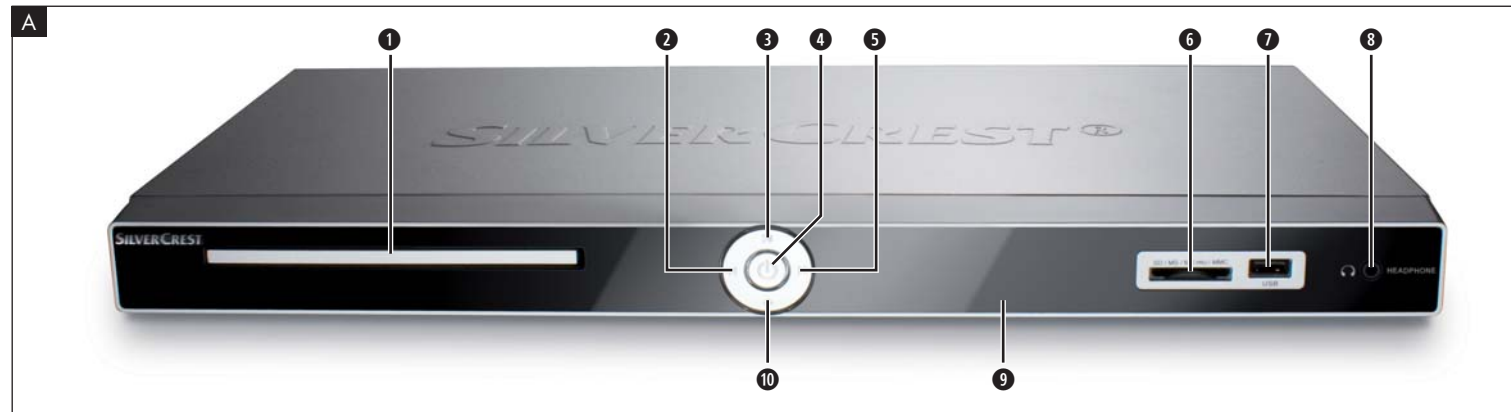
## DVD Player SHDP 5.1 A1

61



GB DVD Player  
IE Operating instructions

KOMPERNASS GMBH  
BURGSTRASSE 21 · D-44867 BOCHUM  
www.kompernass.com  
ID-Nr.: SHDP 5.1 A1-01/11-V3  
IAN: 64329/64330



<b>INDEX</b>	<b>PAGE</b>
<b>1. Technical Data</b>	<b>2</b>
<b>2. Intended use</b>	<b>2</b>
<b>3. Package contents</b>	<b>2</b>
<b>4. Operating components</b>	<b>2</b>
<b>5. Setting up of the DVD player</b>	<b>3</b>
<b>6. Safety instructions</b>	<b>3</b>
<b>7. Remote control</b>	<b>4</b>
7.1 Inserting the batteries . . . . .	4
7.2 Using the remote control . . . . .	4
7.3 Replacing the batteries . . . . .	4
<b>8. Connecting the DVD player to a television</b>	<b>4</b>
8.1 Connecting to a television via ScartCable/RGB . . . . .	5
8.2 Connecting to a television via S-Video . . . . .	5
8.3 Connection to a television via video input (Composite Video) . . . . .	5
8.4 Connecting via component signal (YPbPr/YUV) . . . . .	5
8.5 Connecting to a television via HDMI . . . . .	6
<b>9. Connecting audio components to the DVD player</b>	<b>6</b>
9.1 Requirements for the connection of a HiFi system . . . . .	6
9.2 Connecting digital audio components via digital cables . . . . .	6
9.3 Connecting audio components via an analogue cable . . . . .	7
9.4 Connecting the headphones . . . . .	7
<b>10. OSD menu settings</b>	<b>8</b>
10.1 Using the OSD Menu . . . . .	8
10.2 Setup menu GENERAL . . . . .	8
10.3 Setup menu AUDIO . . . . .	9
10.4 Setup menu DOLBY . . . . .	10
10.5 Setup menu VIDEO . . . . .	10
10.6 Setup menu PREFERENCE . . . . .	11
<b>11. Initial operation of the DVD player</b>	<b>12</b>
11.1 Switching the DVD player on/off . . . . .	12
11.2 Inserting the DVD . . . . .	12
11.3 Inserting memory cards/USB memory sticks with MP3/WMA/ MPEG4/JPEG data. . . . .	12
11.4 Removing memory cards/USB memory sticks . . . . .	13
<b>12. Playing back DVDs, VCDs or S-VCDs</b>	<b>13</b>
12.1 Features during playback of a DVD, VCD or S-VCD . . . . .	14
<b>13. Playback of JPEG-Photo CD/WMA/MP3/MPEG4</b>	<b>18</b>
<b>14. CD Ripping function</b>	<b>19</b>
<b>15. Cleaning of the DVD player</b>	<b>19</b>
<b>16. Disposal</b>	<b>19</b>
<b>17. Troubleshooting</b>	<b>20</b>
<b>18. Glossary / Key Word Index</b>	<b>21</b>
<b>19. Warranty and Service</b>	<b>22</b>
<b>20. Importer</b>	<b>22</b>

Read these operating instructions carefully before using the device for the first time and preserve this manual for later reference.

Pass this manual on to whoever might acquire the device at a future date.

# DVD PLAYER

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## 1. Technical Data

This device conforms regarding compliance to the basic requirements and other relevant provisions of the low-voltage directive 2006/95/EC, the EMV directive 2004/108/EC as well as the Ecological design directive 2009/125/EC (Ordinance 1275/2008) Supplement II, Number 1).

Power supply: AC 220 V - 240 V ~ 50 Hz

Power consumption: max. 20 Watt

Power consumption:

Standby: < 1 W

Protection class: II / 

TV standard: PAL/NTSC

Operating temperature: +5 ~ +40°C

Humidity: 5 ~ 90% (no condensation)

Measurements

(W x H x D): 43 x 4.3 x 21.6 cm

Weight : 1.65 kg approx.

Laser class: 1

### Video Output

Format: 4:3 / 16:9

Decoder: MPEG 2

D/A converter: 12 Bit

### Audio Output

Decoder: MPEG Dolby Digital (AC-3)

DTS only possible with additional external decoder

D/A converter: 24 Bit / 96 kHz

### USB port

Readable

USB memory sticks: USB 1.1.1 and 2.0 up to a capacity of 8GB

Max. current output: 100 mA

### Memory card slot

Readable memory cards: SD, MS/MSPro, MMC up to 32 GB (if available)

### Headphones output

Jackplug: 3,5 mm

Maximum

output voltage: 125 mV

### Playable mediums/formats

Video: DVD, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-R DL, DVD+R DL, VCD, S-VCD

Audio: CD, CD-R, CD-RW, Audio-DVD, MP3, WMA, OGG Vorbis

Additional formats: AVI, MPEG 4, Xvid, JPEG (Foto-CD)

Regional code:  or 

## 2. Intended use

The SilverCrest SHDP 5.1 A1 DVD player is intended exclusively for stationary use in enclosed spaces. The device is intended exclusively for private, non-commercial use.

The device is intended for use as an electronic entertainment device whose purpose is to display and playback images, music and video files.

No liability/warranty will be accepted for damages that result from improper use of the device or from unauthorised reconstruction!

## 3. Package contents

- DVD Player
- Infrared remote control
- 2 Batteries for remote control, type AAA/ (Micro cells)
- RGB Scart cable
- Audio/Video RCA Cinch cable
- HDMI cable
- Operating manual

## 4. Operating components

### A. DVD player front panel

- 1 Disc compartment
- 2 FAST RWD ◀ button: Fast search backwards
- 3 PLAY/PAUSE ▶|| button
- 4 STANDBY ⏻ button
- 5 FAST FWD ▶▶ button: Fast search forward
- 6 Memory card slot for SD/MMC/MS and MSPro cards
- 7 USB port
- 8 Headphones output for 3.5 mm jackplug
- 9 Display (with standby LED and IR sensor for the remote control)
- 10 OPEN/CLOSE ▲ button

### B. DVD player rear panel

- 11 Power cable
- 12 POWER switch
- 13 VIDEO: Composite video output
- 14 Y, Pb/Cb, Pr/Cr: Component video outputs
- 15 SCART: Scart/RGB output
- 16 FL/FR: Output for front, left and right audio channels
- 17 SL/SR: Output for rear, left and right audio channels
- 18 SW: Output for bass audio channel
- 19 CEN: Output for front and centre audio channels
- 20 COAXIAL: Coaxial audio output
- 21 AUDIO L/R: Left and right audio outputs
- 22 HDMI: HDMI output
- 23 OPTICAL: optical digital audio output
- 24 S-VIDEO: S Video output

## C. Remote control

- ① OPEN/CLOSE ▲: Open/Close the disc tray
- ② Number buttons
- ③ DISPLAY: Superimpose disc information
- ④ DIMMER: Adjust the display brightness
- ⑤ V-MODE: Set the video output
- ⑥ STOP ■: Stop playback
- ⑦ PLAY/PAUSE ▶II: Start/Suspend playback
- ⑧ SKIP FWD ►►: Chapter skip forwards
- ⑨ VOL +/-: Raise/lower the sound level
- ⑩ FAST FWD ►►: Fast search forward
- ⑪ SUBTITLE: Set the subtitle
- ⑫ ENTER: Confirm input
- ⑬ Control buttons ◀ ▶ ▲ ▼
- ⑭ MENU/RIPPING: Access disc menu/ripping function
- ⑮ SLOW: Slow motion function
- ⑯ RETURN: access disc menu/return to playback
- ⑰ ZOOM: Set the image enlargement
- ⑱ PROG: Access the programme function
- ⑲ A-B: Repeat sequence
- ⑳ Battery compartment (on the rear panel)
- ㉑ PBC: PBC function activate/deactivate (VCD, SVCD only)
- ㉒ USB: Change between disc playback and USB/card playback
- ㉓ STEP: Individual frame playback
- ㉔ L/R/ST: Set the audio channel
- ㉕ AUDIO: Set the audio language
- ㉖ TITLE: Access the title menu
- ㉗ FAST RWD ◀◀: Fast search backwards
- ㉘ SKIP BWD ◀◀: Chapter skip backwards
- ㉙ MUTE ✕: Switch the sound on/off
- ㉚ REPEAT: Set the repeat function
- ㉛ ANGLE: Change the camera perspective
- ㉜ SETUP: Access the OSD menu
- ㉝ GOTO: Access titles, chapters and time direct select menus
- ㉞ STANDBY ⏻: Switch the device to standby mode

## 5. Setting up of the DVD player

1. Carefully remove the DVD player and the supplied accessories from the packing.
2. Remove the protective foil from the display.
3. Place the DVD player on a flat, even and firm base. Do not subject the device to any external heat or moisture source. Make sure that the device has sufficient ventilation on all sides. Do not place any television directly on top of the DVD player.

### ⚠ Attention!

Do not plug the DVD player into an electrical outlet at this time. Wait until you have connected the DVD player to a television set.

In the event that you wish to change the type of video or audio connection you must first pull the power plug from the power socket! Otherwise the DVD player and possibly equipment connected to it could become irreparably damaged through voltage peak strikes!

## 6. Safety instructions

- This device is not intended for use by individuals (including children) with restricted physical, physiological or intellectual abilities or deficiencies in experience and/or knowledge unless they are supervised by a person responsible for their safety or receive from this person instruction in how the device is to be used.
- Children should be supervised to ensure that they do not play with the device.
- To avoid unintentionally switching on the device pull the power cord from the mains supply after use and before cleaning.
- Check the device and all parts for visible damages. The safety concept can work only if the device is in a faultless condition.
- The power plug must always be easily accessible, so that the device can be quickly disconnected from the mains in the event of an emergency.

### ⚠ Risk of electrical shocks!

- Connect the device only to correctly installed and earthed mains sockets. Ensure that the rating of the local power supply tallies completely with the details given on the rating plate of the device.
- Arrange for defective power plugs and/or cables to be replaced at once by qualified technicians or our Customer Service Department.
- Arrange for customer service to repair or replace connecting cables and/or devices that are not functioning properly or have been damaged.
- Never immerse the device in water. Wipe it only with a slightly damp cloth.
- Do not expose the device to rain and never use it in a humid or wet environment.
- Ensure that the power cable never becomes wet during operation.
- You must not open the housing or repair the device yourself. Should you do so, device safety can no longer be assured and the warranty will become void.
- Protect the device against drip and spray water. Do not place any water-filled vessels (e.g. flower vases) on the device.

### ⚠ Risk of fire!

- Do not use the device in the vicinity of hot surfaces.
- Do not locate the device in places exposed to direct sunlight. If you do, it may overheat and become irreparably damaged.
- Do not leave the device unattended when in use.
- Never cover the ventilation slots of the device while it is being used.
- Do not place any open sources of fire, like candles, on the device.

### ⚠ Injury hazard!

- Keep children away from the connecting cable and the device. Children frequently underestimate the dangers of electrical equipment.
- Ensure that the device stands with a safe and secure positioning.
- Do not operate the device if it has sustained a fall or is damaged. Arrange for the device to be checked and/or repaired by qualified technicians.
- Batteries/ battery cells are potentially fatal if swallowed. Store batteries out of the reach of children. If a battery is swallowed medical assistance must be sought immediately.
- Also, store the packaging foils well away from children. There is a risk of suffocation.

### **⚠ Danger! Laser radiation!**

This device is fitted with a „Class 1 Laser“.

- Never open the device.
- Never attempt to repair the device.
- There is invisible laser radiation inside the device.  
Do not expose yourself to the laser beam.

### **ⓘ Note:**

Some aggressive furniture finishes can have a destructive influence on the device's rubber feet. If necessary, place the device on a nonslip pad.

### **⚠ Thunderstorms!**

Equipment connected to a power supply can be damaged during a thunderstorm. You should therefore always pull the power plug from the power socket when there is a storm.

### **⚠ Notice regarding electrical power surges (EFT / electrical fast transient) and electrostatic discharges:**

In the case of malfunction due to an electrical fast transient (power surge) and/or electrostatic discharge, the device must be returned to default settings in order to re-establish normal operation. The power supply may have to be disconnected and then reconnected. The batteries (if present) must be removed and then reinserted.

### **⚠ Notice regarding disconnection from mains-power**

The POWER switch does not completely disconnect the device from the power network. Additionally, the device consumes power when in standby-mode. To completely disconnect the device from mains-power, the power plug MUST be removed from the wall socket.

### **ⓘ Information regarding the handling of batteries**

The remote control is operated by batteries.

For the safe handling of batteries please observe the following safety information:

### **⚠ Danger exists from uses other than those intended!**

- Do not throw the batteries into a fire.
- Do not short circuit the batteries.
- Do not attempt to recharge the batteries.
- Regularly check the condition of the battery. Leaking battery acid can cause permanent damage to the device. When handling a damaged or leaking battery special care should be taken. Danger from acid burns!  
Wear protective gloves.
- Clean the battery compartment and the battery contacts with a dry cloth.
- Store batteries out of reach of children. When swallowed seek immediate medical attention.
- Remove the batteries from the device if you do not intend to use the device for an extended period of time.
- Never open batteries, never solder or weld batteries.  
The risk of explosions and injuries exists!

### **⚠ Attention!**

No liability/warranty will be considered for damage to the DVD player caused by the effects of moisture, water penetration or overheating!

## 7. Remote control

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### 7.1 Inserting the batteries

1. Open the battery compartment on the rear of the remote control.
2. Place the two supplied batteries type AAA (micro cells) into the battery compartment. Make sure that the batteries are inserted in accordance with the correct polarity.
3. Replace the battery compartment cover.

### 7.2 Using the remote control

In order to guarantee faultless operation when using the remote control...

- Always point the remote control, during use, directly at the DVD player
- Make sure that there are no obstructions between the remote control and the DVD player that will hinder reception.
- When using the remote control place yourself not more than 5 metres from the DVD player  
otherwise interferences can occur during operation of the DVD player functions with the remote control.

### 7.3 Replacing the batteries

If the operation of the DVD player via the remote control does not function properly or does not function at all the batteries must be replaced

- Always renew all batteries in order to return the remote control to its full performance ability.

## 8. Connecting the DVD player to a television

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After setting up the DVD player, you can now connect it to a television.

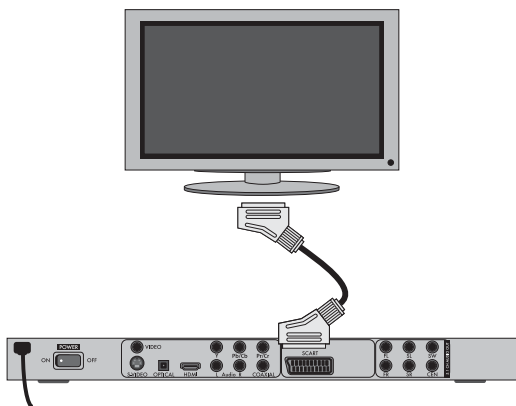
The DVD player can be connected to televisions which operate with the PAL and NTSC standards.

If you want to use the DVD player on a television with the NTSC standard you must change the video setting in the DVD players "OSD menu". There PAL is set as the television standard at the factory. Depending on the televisions equipment there are different methods of connecting the DVD player to it, these are explained as follows.

## 8.1 Connecting to a television via ScartCable/RGB

### **i Note:**

Connecting the DVD player to a television with a Scart cable via the RGB input offers a high quality connection. Select this connection variation in the case of televisions equipped with an RGB input. If you are not sure if the television is equipped with an RGB input then you can check this by consulting the television's instruction manual.



- Connect the jack inscribed with **SCART** to a television Scart socket by using the supplied Scart cable.
- For playback select the matching channel on your television. Check with the television's instruction manual on how you can set the AV channel.
- In the OSD menu select under the **VIDEO/VIDEO OUTPUT/RGB** or **S-VIDEO** menus.

**i** The menu option **VIDEO OUTPUT** is only selectable when the **HDMI** output is deactivated. On this subject see also chapter 10 "Settings in the OSD menu".

## 8.2 Connecting to a television via S-Video

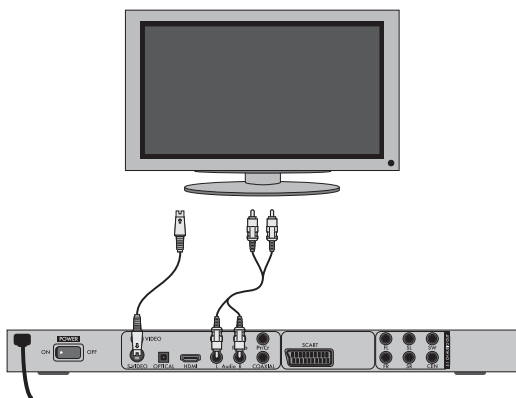
### **i Note:**

For this type of connection the television must have available an S-Video input and two audio "IN" cinch sockets. If you are not sure if the television is equipped with S-Video and/or cinch sockets you can check this by consulting the television's instruction manual.

For this connection variant you will need:

- an audio cinch cable (not supplied)
- an S-video cable (not supplied) These can be obtained from your dealer.

To connect the DVD player to a television via S-Video:



- Connect the jack inscribed with **S-VIDEO** to a television S-Video socket using an S-Video cable.
- Connect the audio output sockets **AUDIO L/R** on the rear panel of the DVD player via an audio cinch cable to the corresponding audio inputs on the television. Make sure that the red and white colour markings correspond.

- For playback select the matching channel on your television. Check with the television's instruction manual on how you can set the AV channel.
- In the OSD menu select the menu option **VIDEO/VIDEO OUTPUT/S-VIDEO**.

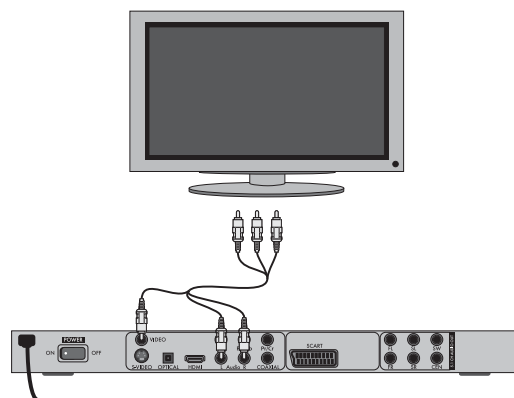
**i** The menu option **VIDEO OUTPUT** is only selectable when the **HDMI** output is deactivated. On this subject see also chapter 10 "Settings in the OSD menu".

## 8.3 Connection to a television via video input (Composite Video)

For this connection variant the television must be equipped with Audio/Video cinch sockets (Composite Video).

In order to connect the DVD player to a television via Composite Video you will need

- an audio/video RCA cinch cable (supplied)



- Connect the yellow marked video socket with the yellow **VIDEO** socket on the television.
- Connect the audio output sockets **AUDIO L/R** on the rear panel of the DVD player to the corresponding audio inputs on the television. Make sure that the colour markings yellow, red and white correspond.
- For playback select the matching channel on your television. Check with the television's instruction manual on how you can set the AV channel.
- In the OSD menu select the menu option **VIDEO/VIDEO OUTPUT/S-VIDEO**.

**i** The menu option **VIDEO OUTPUT** is only selectable when the **HDMI** output is deactivated. On this subject see also chapter 10 "Settings in the OSD menu".

## 8.4 Connecting via component signal (YPbPr/YUV)

This connection variant is only possible with very high grade televisions, LCD/Plasma screens or Video projectors.

Check with the instruction manual of the corresponding playback device to see if this connections variant is available. It is possible that additional playback device settings may have to be implemented.

The so called "Component signal" is put out via the YPbPr socket of the DVD player. Component signals are available in the form of the so called "YUV" signal (Half image) as well as in the form of the so called "YPbPr" signal (Full image/Progressive scan).

**i** On this topic, please refer to Section 18. "Glossary / KeyWord Index".

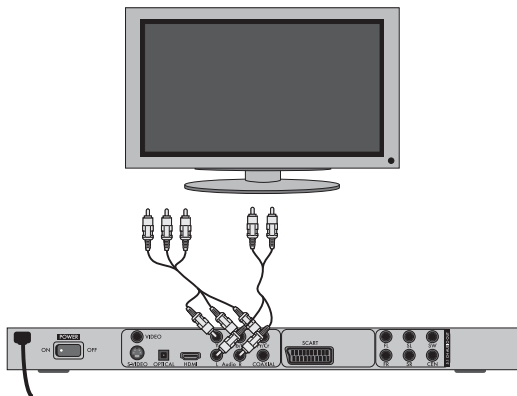
The cable connections are the same in both cases; YPbPr-signal for Progressive Scan however can only be used if the television (or Video projector), to which you want to connect the DVD player, is capable of Progressive Scan. If you are not sure whether the television (or Video projector), to which you want to connect the DVD player is capable of Progressive Scan and has cinch sockets available then you can check this by consulting the television's (or Video projectors's) instruction manual.

For both variations – "YPbPr" and "YUV" – you will need

- an audio cinch cable (not supplied)
- an YUV cable (not supplied) These can be obtained from your dealer.

On the rear panel of the DVD player you will find the connection sockets Y, Pb/Cb and Pr/Cr.

#### Connecting the DVD player via component signal:



- Connect the sockets Y (green), Pb/Cb (blue) and Pr/Cr (red) with the corresponding sockets on the television.
- Connect the audio output sockets **AUDIO L/R** on the rear panel of the DVD player to the corresponding audio inputs on the television with an audio cinch cable.

Make sure that the red and white colour markings correspond.

- For playback select the matching channel on your television. Check with the television's instruction manual on how you can set the AV channel.
- In the OSD menu select the menu option **VIDEO/VIDEO OUTPUT/YUV**.

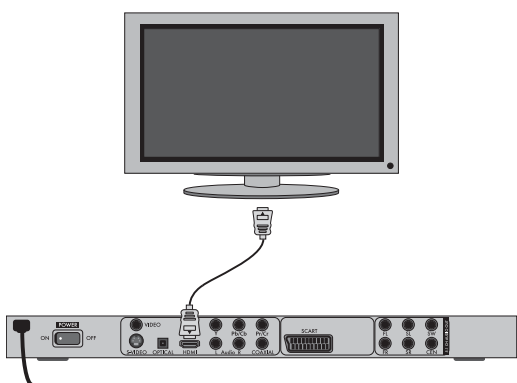
**i** The menu option **VIDEO OUTPUT** is only selectable when the **HDMI** output is deactivated. On this subject see also chapter 10 "Settings in the OSD menu".

### 8.5 Connecting to a television via HDMI

This connection variant is only possible with very high grade televisions, LCD/Plasma screens or Video projectors

Check with the instruction manual of the corresponding playback device to see if this connections variant is available. It is possible that additional playback device settings may have to be implemented. For this type of connection you will need the HDMI cable (supplied);

#### Connecting the DVD player via HDMI:



- Connect the jack inscribed with **HDMI** using a HDMI cable to the corresponding socket on the television.
- For playback select the matching channel on your television. Check with the television's instruction manual on how you can set the AV channel.
- In the OSD menu select the menu option **VIDEO/HDMI Setup/ON**.

**i** On this subject see also chapter 10 "Settings in the OSD menu".

## 9. Connecting audio components to the DVD player

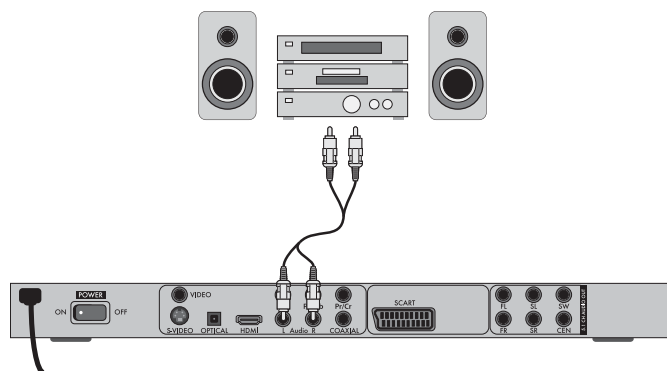
Besides sound playback of DVDs, VCDs/S-VCDs and audio and MP3-CDs via the speaker of the television, to which the DVD player is connected, sound can also be played back via external audio components such as a HiFi system, Dolby digital/DTS receiver or a surround sound system.

### 9.1 Requirements for the connection of a HiFi system

In order to enjoy a full sound experience when playing DVDs with the DVD player you can connect a HiFi system to the player. Before connecting check with the HiFi system's instruction manual to verify...

- if the HiFi system is suitable for connection to a DVD player.
- if the HiFi system is equipped with cinch sockets; if yes, you can connect the HiFi system to the DVD player via cinch cables.

#### Connecting a HiFi system:



- Connect the audio output sockets **AUDIO L/R** on the rear panel of the DVD player to the corresponding audio inputs on the HiFi system with an audio cinch cable. Make sure that the red and white colour markings correspond.
- Check with the instruction manual which settings on the HiFi system may be necessary in order to reproduce sound via the HiFi system during the playback of a DVD, VCD/S-VCD, audio or MP3-CD from the DVD player.

#### **i** Note:

For an optimal sound experience place your HiFi system's loud speakers to the left and to the right of the television, on which you connected the DVD player.

If you connected the DVD player to the television via a Scart cable the audio signal will be transmitted via the cinch cable to your HiFi system as well as via the Scart cable to the television. In this case, set the volume of the television to the lowest value.

### 9.2 Connecting digital audio components via digital cables

In order to enjoy sound playback throughout the room from correspondingly equipped DVDs (recognizable by the Dolby Digital or DTS logos), you can connect the DVD player to a digital audio component, for example, a Dolby Digital or DTS receiver or a suitable surround sound system.

The cables necessary for the following described connection variations can be obtained from your dealer.



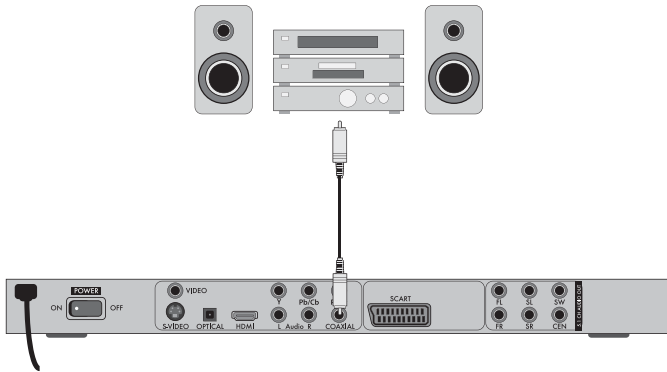
Firstly check with the digital component's instruction manual to see if it allows for connection to the DVD player...

- via a coaxial cable
- or via an optical cable.

### Connection via coaxial cable

To connect the DVD player to a digital audio component with a digital coaxial cable:

- Connect the **COAXIAL** inscribed plug to the corresponding socket on the digital audio component.



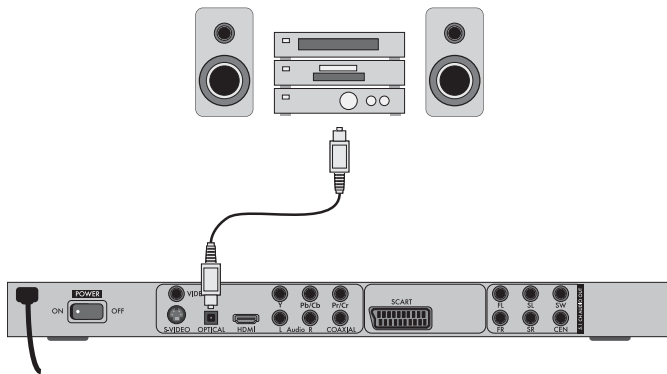
### Connecting via optical cable

To connect the DVD player to a digital audio component with an optical cable:

- Remove the protective plug from the **OPTICAL** inscribed socket on the rear panel of the DVD player and insert the optical cable plug.
- Insert the plug at the other end of the optical cable in the corresponding socket of the digital audio component.

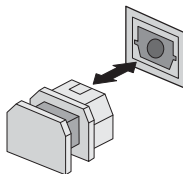
#### **Note:**

The optical cable is a glass fibre cable and must not be bent during installation. Otherwise the glass fibre contained in the cable could break and the cable would become unusable.



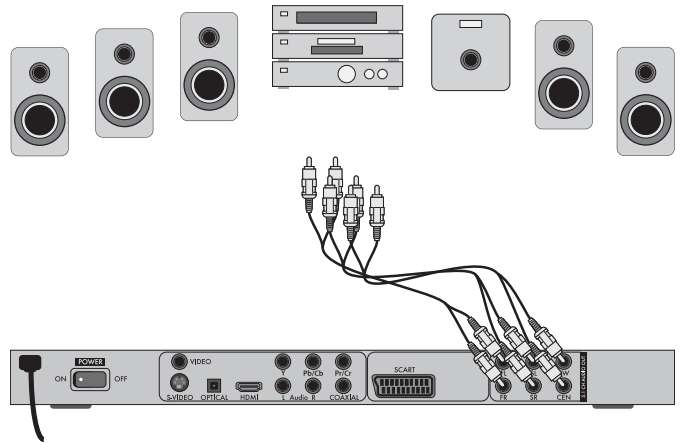
#### **Note:**

Make sure that no dirt can enter into the optical cable socket. This could cause signal interference. Always insert the protective plug into the socket if no optical cable is connected.



### 9.3 Connecting audio components via an analogue cable

If a digital input is not available on the audio component you can connect the DVD player to it via conventional analogue cinch cables.



To connect the DVD player with analogue cables:

- Plug a cinch cable into each of the sockets **FL** (front left channel), **FR** (front right channel), **SL** (rear left channel), **SR** (rear right channel), **CEN** (front centre channel) and **SW** (Bass) on the rear panel of the DVD player.
- Insert the cinch cables into the corresponding analogue inputs of the audio component.

### 9.4 Connecting the headphones

The headphones output is located on the front panel of the DVD player.

- Plug the 3.5 mm headphones jackplug into the headphones output. The audio output also continues to come out via the television set.



#### **Attention!**

Listening to music with headphones for long periods and at high volume levels can lead to hearing damage!

## 10. OSD menu settings

All of the DVD player's settings can be made with the remote control via the so called "On Screen Display" menu ("OSD menu" for short). The OSD Menu will be superimposed on the television screen.

### **Note:**

In these instructions the English OSD menu is described. At any time you can set the menu to your country's language as described in "GENERAL > OSD LANGUAGE".

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
TV DISPLAY		PS		
ANGLE MARK		ON		
OSD LANGUAGE		ENG		
CLOSED CAPTIONS		OFF		
SCREEN SAVER		ON		
LAST MEMORY		OFF		

Before you use the DVD player for the first time for playback of DVDs, VCDs/S-VCDs or audio/MP3-CDs you must implement a few settings via the OSD Menu. These settings are dependent amongst others on...

- the language, in which you want the OSD menu to be displayed
- which TV standard corresponds to the television, to which you want to connect the DVD player
- Which image format your television can display

### Administering settings via the OSD menu

- First insert the connector plug of the DVD player's power cord into a power socket.
- To switch the DVD player on activate the **POWER** switch on the rear panel of the DVD player. If the DVD player is already switched on but is in standby mode, press the button **STANDBY** on the remote control to switch the DVD player on. The standby mode is identified by the LED in the display on the front panel of the device.

The device will check to see if a disc is inserted. The SilverCrest logo appears on the television screen:



If no disc is inserted the notification **NO DISC** appears on the television screen and in the display.

- Firstly please familiarize yourself with the OSD Menu's operation by means of the following brief introduction.

### 10.1 Using the OSD Menu

- To access the DVD player's OSD menu press the **SETUP** button on the remote control. The OSD Menu with its menu options will appear on the television screen:

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
TV DISPLAY		PS		
ANGLE MARK		ON		
OSD LANGUAGE		ENG		
CLOSED CAPTIONS		OFF		
SCREEN SAVER		ON		
LAST MEMORY		OFF		

The following menu options can be selected:

**GENERAL, AUDIO, DOLBY, VIDEO** and **PREFERENCE**.

- With the control buttons **◀ ▶ ▲ ▼** and the **ENTER** button you can carry out all the settings in the menu.
  - With the control buttons **◀ ▶** you can select a menu by moving the yellow marking onto the corresponding menu symbol.
  - With the control buttons **▲ ▼** you select an input in a menu by moving the green bar over an input.
  - With the control button **▶** you change an input in the sub menu and with the control button **◀** you move back to the previous menu level.
  - To confirm a selection press the **ENTER** button.
- All navigation possibilities in a current menu are displayed at the lower edge of the menu.
- To exit the OSD menu press the **SETUP** button again.

### 10.2 Setup menu GENERAL

In this menu you can, for example, set the image presentation or the language of the OSD menu.

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
TV DISPLAY		PS		
ANGLE MARK		ON		
OSD LANGUAGE		ENG		
CLOSED CAPTIONS		OFF		
SCREEN SAVER		ON		
LAST MEMORY		OFF		

#### TV DISPLAY

- 4:3/PANSCAN Select this setting to display broadcasts in the usual 4:3 format on a 4:3 television set. Broadcasts in the 16:9 format will be displayed in full screen without the distracting bars although the side edges of the image will be trimmed.
- 4:3/LETTERBOX Display of a film in 16:9 format on a traditional 4:3 format television. The image is displayed with black bars on the lower and upper edges of the screen.
- 16:9 This setting is recommended when using a wide screen television in 16:9 format. An image in 4:3 format will be adapted horizontally to the image width.
- Wide Squeeze An image in 4:3 format will be presented with black bars on the right and left edges.

## ANGLE MARK

- ON If scenes are recorded on a DVD in different perspectives this will automatically be signified by a camera symbol displayed on the television screen. Press the **ANGLE** button on the remote control to display the various perspectives.
- OFF Deactivate function. No symbol appears on the television screen.

## OSD LANGUAGE

Here you set the language, in which the OSD Menu will be shown on the display.

## CLOSED CAPTIONS

- ON Select this setting if by every playback of a DVD the subtitle (if present) is to be automatically displayed on the television screen.
- OFF Select this setting to manually activate the subtitle. The subtitles can also be set, during playback, with the **SUBTITLE** button.

## SCREEN SAVER

- ON Screen saver activated. The screen saver will now switch on when the playback is stopped and no input is made for approx. 4 minutes.
- OFF Deactivate function.

## LAST MEMORY

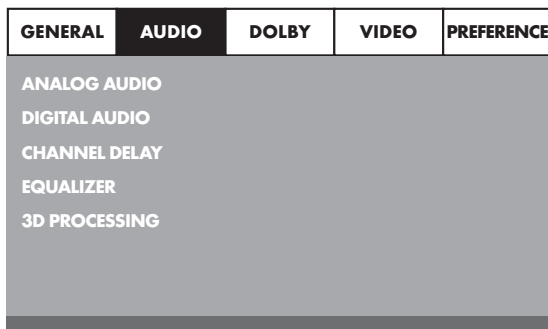
- ON Select this setting to playback a disc from the previously halted position after removal and re-insertion.
- OFF Deactivate function. The disc playback starts back at the beginning after removing and then reinserting.

### **i** Note:

If the DVD player is turned off with the **POWER** switch the saved position will not be preserved.

## 10.3 Setup menu AUDIO

In this OSD menu you can, for example, carry out settings for the analogue as well as the digital audio outputs.



### ANALOG AUDIO

#### DOWNMIX

If you use the analogue 5.1 output in this menu you can carry out the appropriate settings.

- LT/RT Only the left and right channels at the sockets **FL** and **FR** will put out signals.
- STEREO A stereo sound will be put out. Select this setting if you are not using the analogue 5.1 outputs. The menu options **CENTER SPEAKER** and **REAR SPEAKER** are then not required and therefore inactive.

- 3D SURROUND Select this setting to produce a virtual surround effect from a stereo or multi channel sound.
- 5.1 CH Select this setting to activate the analogue 5.1 outputs.

### FRONT SPEAKER, CENTER SPEAKER, REAR SPEAKER and SUBWOOFER

In these menu inputs you can activate/deactivate the individual speaker types and set the size.

- LARGE Select this setting if the diameter of the speaker membrane is greater than 12 cm.
- SMALL Select this setting for smaller speakers.
- OFF Deactivate sound output for these types of speakers

### **i** Note:

The menu input **FRONT SPEAKER** can not be deactivated since the sound output for the front speakers always remains switched on.

- DIALOG In this menu input you can set the dialogue volume (0-20).

### D.R.C. (Dynamic Range Control)

This function sets the level of the dynamic range for motion picture soundtracks which are optimised for Dolby Digital. The function is particularly useful when listening to surround sound with a low volume level.

- ON Function activated
- OFF Function deactivated.
- AUTO Function (if available) is automatically activated

## DIGITAL AUDIO

### DIGITAL OUTPUT

In this menu input you can set the SPDIF output signal.

- SPDIF / OFF No digital audio signal is being put out at the sockets **COAXIAL** or **OPTICAL**.
- SPDIF / RAW The crude data of the Dolby Digital sound is put out.
- SPDIF / PCM Select the setting **PCM** (Pulse Code Modulation) when there is a connection to a digital amplifier/receiver. Your DVD player transmits, through the PCM signal, the same audio formats that are rendered on the disc. In addition an audio signal will be put out via the sockets **FL** and **FR**.

LPCM OUTPUT Select this input to set the sampling frequency for the processing of the crude data.

- 48K: Default setting.
- 96K: Only for DVDs with the corresponding sampling frequency.

### **i** Note:

The **LPCM OUTPUT** function is only available if you have set the **SPDIF** audio output signal to **PCM**.

### CHANNEL DELAY

Select this menu input to set the channel delay of the individual speakers. With optimal settings the sound reaches your ears simultaneously from all directions.

With the control button **▶** go to the graphics field beside the input.

With the control buttons **▲** or **▼** select the speaker.

With the control buttons **▶ ◀** you increase/decrease the value in increments of 10 cm. The maximum setable deviation for the **CENTER** speaker is 170 cm. The maximum setable deviation for the **SUBWOOFER** and the rear speakers is 510 cm.

Confirm your entry by pressing the **ENTER** button.

### **i** Note:

The channel delay is determined by the front speakers therefore these are not selectable.

## EQUALIZER

- SOUND MODE** Select this menu input if, when playing back sound, you want to use one of the preset equalizer levels **ROCK, POP, LIVE, DANCE, TECHNO, CLASSIC** or **SOFT**. To deactivate this function select the input **OFF**.
- BASS BOOST** Select the setting **ON** if you want to boost the playback of the base tone. To deactivate this function select the input **OFF**.
- SUPER BASS** Select the setting **ON** to use the super base sound effect. In addition playback of the base tone will be boosted. To deactivate this function select the input **OFF**.
- TREBLE BOOST** Select the setting **ON** if you want to boost playback of the treble sounds. To deactivate this function select the input **OFF**.

## 3D PROCESSING

Select this menu input if you want to activate/deactivate the Pro Logic II process.

### **i Note:**

The menu option **PRO LOGIC II** can only be selected if the analogue 5.1 outputs are activated.

- PRO LOGIC II** Select the setting **ON** if the process is to be activated all the time. Select the setting **AUTO** if the process is only to be activated when Dolby Pro Logic II encoded content is located on the playback medium. To deactivate this function select the input **OFF**.
- MODE** In this menu you can set the Pro Logic II process mode.
  - MUSIC:** Sound is played back through the speakers without delay.
  - MOVIE:** Sound is played back with a delay of 10 ms through the rear speakers.
- PRO LOGIC:** Earlier version of the DOLBY PRO LOGIC processes.
- AUTO:** Automatic setting of the processes (depending on the contents of the playback medium).

### **i Note:**

The menu inputs **PANORAMA, DIMENSION** and **CENTER WIDTH** serve to fine tune the sound and are only available if you have set the process mode **MUSIC**.

- PANORAMA** Select the setting **ON** to activate this sound enhancement. To deactivate this function select the input **OFF**.
- DIMENSION** Select one of the settings **SIZE -3** to **SIZE 3** to activate this sound enhancement.
- CENTER WIDTH** Select one of the settings **LEVEL 0-7** to receive a corresponding sound enhancement.
- REVERB MODE** Select this menu input if you want to use, for sound playback, one of the preset reverbs **CONCERT, LIVING ROOM, HALL, BATHROOM, CAVE, ARENA,** or **CHURCH**. To deactivate this function select the input **OFF**.

## 10.4 Setup menu DOLBY

In this OSD menu you can undertake settings for the 5.1 outputs.

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
DUAL MONO				
DYNAMIC				

- DUAL MONO** Select this menu input to set the Dolby-Digital output to either **STEREO, L-MONO, R-MONO** or **MIX-MONO**.
- DYNAMIC** Select this menu input to enable an optimal sound playback with reduced volume. In the setting **FULL** the louder passages will be suppressed and the softer passages will be played back louder.

### **i Note:**

This function is only possible when using a Dolby Digital coded 2 channel DVD.

## 10.5 Setup menu VIDEO

In this menu you can, for example, carry out settings for the video output, resolution or colour.

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
VIDEO OUTPUT		RGB		
RESOLUTION				
COLOR SETTING				
HDMI SETUP				
Xvid SUBTITLE		ENG		

### VIDEO OUTPUT

- S-VIDEO** The video signal will be put out via the S-video output and the composite video output.
- YUV** The video signal will be put out in YUV colour format via the component video outputs Y, U/Pb, V/Pr.
- RGB** The video signal will be put out in RGB colour format via the SCART connection.

### **i Note:**

This setting is only active if the HDMI setup is deactivated. The composite video output on the DVD player is always activated. If the selected setting deviates from the actual connection variation (apart from composite video) it is possible that no image or a poor image will be displayed on the television screen. In this event press, when playback is stopped, several times the **V-MODE** button on the remote control until the image is displayed properly.

**RESOLUTION** In this menu input you can set the different resolutions (480i/480p/576i/576p/720p/1080i/1080p) for the HDMI output/component video output.

**Note:**

With a deactivated HDMI output only the 576p resolution will be displayed. Be aware that for the TV standard PAL a setting with 50 Hz and for the TV standard NTSC a setting with 60 Hz must be selected.

**COLOR SETTING**

In this menu input you can implement the settings, for example, for the brightness, contrast or hue.

- SHARPNESS** Select this menu input to set one of the predefined sharpness values (HIGH, MEDIUM or LOW).
- BRIGHTNESS** With the help of the control buttons ◀ ▶ set the brightness from -20 to +20. Subsequently press the ENTER button to continue.
- CONTRAST** With the help of the control buttons ◀ ▶ set the contrast from -16 to +16. Subsequently press the ENTER button to continue.
- GAMMA** Select this menu to set one of the predefined gamma values (HIGH, MEDIUM, LOW or NONE).
- HUE** With the help of the control buttons ◀ ▶ set the hue from -9 to +9. Subsequently press the ENTER button to continue.
- SATURATION** With the help of the control buttons ◀ ▶ set the saturation level from -9 to +9. Subsequently press the ENTER button to continue.
- LUMA DELAY** Select this menu input to set one of the predefined gamma values (0 T or 1 T).

**HDMI Setup**

- ON** Select this menu input to activate the HDMI output.
- OFF** Select this menu input to deactivate the HDMI output.

**Xvid SUBTITLE** In this menu input you can set the Xvid subtitle language that is to be the standard used when playing back films.

**10.6 Setup menu PREFERENCE**

In this menu you can, for example, carry out the settings for the video output, activate/deactivate the child lock or change the password.

**Note:**

The menu option PREFERENCE is only selectable when playback is completely finished.

GENERAL	AUDIO	DOLBY	VIDEO	PREFERENCE
TV TYPE	PAL			
AUDIO	ENG			
SUBTITLE	ENG			
DISC MENU	ENG			
PARENTAL				
PASSWORD				
DEFAULT				

**TV TYPE**

- PAL** PAL television standard
- NTSC** NTSC television standard.

**AUDIO** In this menu input you can set the language that is to be the standard used when playing back films.

**SUBTITLE** In this menu input you can set the subtitle language that is to be the standard used when playing back films.

**DISC MENU** In this menu input you can set the disc menu language that is to be the standard used when playing back films.

**PARENTAL** In this menu input you can determine the age restrictions.

**Note:**

Only a few DVDs have a technical age restriction available. If there is no technical age restriction on the DVD your DVD players child lock feature can not be activated. The child lock can only function if it is activated on the DVD player and a corresponding code is available on the inserted DVD.

If you insert a DVD which, according to the child lock, may not be played back a window appears on the screen, in which you must enter your password and confirm with ENTER. Some DVDs and CDs are encoded with encryption signals. In this way DVDs can be divided into eight different approval classes.

Select one of the following approval classes to protect the playback of this media class with a password request:

- 1 KID SAFE:** also suitable for young children
- 2 G:** for all age groups
- 3 PG:** adult supervision recommended;
- 4 PG 13:** adult supervision strongly recommended; some scenes are not suitable for children under 12
- 5 PGR:** for children under 16; adult supervision recommended
- 6 R:** for children under 16; adult supervision strongly recommended
- 7 NC 17:** not for teenagers under 18 years of age
- 8 ADULT:** for adults only

**Example**

If a DVD was encoded with, for example, approval class 7 or 8 and you have an approval class setting between 1 and 6 then a message follows and the password must be entered. Also only parts of the DVD, that is to say certain film scenes, may be encoded with an approval class or various approval classes.

- To activate the approval class you must select, in the PARENTAL menu, the desired approval class and enter the password (136900). Confirm your entry by pressing the ENTER button.

**PASSWORD** In this menu input you can change the factory default password (136900) and assign your own password. Only the numbers 0-9 can be used.

**Note:**

In the event that you forget your new password you can use the factory preset password (136900).

**DEFAULT** In this menu input you can restore the DVD players factory defaults.

## 11. Initial operation of the DVD player

After you have ...

- placed the DVD player in a suitable location
- connected the DVD player to a television by one of the designated connection options
- connected the DVD player, if desired, to a HiFi or Surround system (analogue/digital) for example a Dolby Digital or DTS receiver
- made the remote control ready for operation by inserting the batteries
- and know how to activate and operate the OSD menu with the remote control

... the DVD player is ready for operation.

### 11.1 Switching the DVD player on/off

- Insert the mains power cable into a properly installed mains power socket.
- Place the **POWER** switch on the rear panel of the device to the **ON** position. The DVD player is now in standby mode.
- With the **STANDBY** ⏻ button on the remote control or the **STANDBY** ⏻ button on the device you switch the DVD player on and/or back to the standby mode.
- To switch the DVD player off place the **POWER** switch on the rear panel of the device to the **OFF** position.

#### **Note:**

The device has no display indicators when it is switched off or in the standby mode. In the standby mode only the standby LED will light up in the display.

### 11.2 Inserting the DVD

To play a disc with the DVD player:

- Switch on your television.
- Make sure that the DVD player is ready for operation.

If the television, the DVD player and possibly other connected devices (i.e. an audio component) are ready for operation and are switched on and the DVD player is connected correctly to the television you will now see the Silvercrest logo on the TV screen

If no disc is inserted into the DVD player's disc tray:

The message **NO DISC** is displayed on the television screen.

- Open the disc tray by pressing the button ▲ **OPEN/CLOSE** on the remote control or on the front panel of the DVD player. **OPEN** is displayed on the television screen.
- Insert the disc in the disc tray with the inscribed/labeled side up. For two-sided discs: The side you would like to play must face down.
- After you have inserted the disc press the button ▲ **OPEN/CLOSE** on the remote control or on the front panel of the DVD player again to close the disc tray.
- The contents of the disc will now be loaded; this may take a few seconds. In the meantime **LOADING** is displayed on the television screen.

### 11.3 Inserting memory cards/USB memory sticks with MP3/WMA/ MPEG4/JPEG data.

#### **Note:**

The DVD Player always starts in DVD mode. To read memory cards/USB memory sticks press repeatedly the **USB** button on the remote control until the desired medium is shown on the screen. The DVD player recognizes the data formats JPEG, MP3, WMA and MPEG4.

In order to insert memory cards of the types SD, MS/MSPro and MMC into the DVD player:

- Switch on your television.
- Make sure that the DVD player is ready for operation.

If the television, the DVD player and possibly other connected devices (i.e. an audio component) are ready for operation and are switched on and the DVD player is connected correctly to the television you will now see the Silvercrest logo on the TV screen

If no disc is inserted into the DVD player's disc tray: The message **NO DISC** is displayed on the television screen.

- Slide the memory card into the memory card slot. Then proceed with the following steps depending on the type of memory card that you want the device to read.

#### **Warning!**

Always make sure that you insert memory cards into the memory card slot as described hereafter! Under no circumstances bend or buckle the memory card when inserting into the memory card slot! Slide the memory card up to the stop in the memory card slot, with a light pressure.

Allow the memory card to slide in without force:

- Check to make sure that the memory card is one that the DVD player is capable of reading. Do not attempt to insert memory cards of another type in the memory card slot!
- Make sure that you have inserted the memory card into the memory card slot in the correct manner.
- Under no circumstances attempt to force the memory card into the memory card slot!

Otherwise the DVD player, memory card and the data on the memory card could be damaged!

#### **Supported memory card types and capacities**

Memory cards of the types SD, MS/MSPro, MMC up to 32 GB (if available) can be played back..

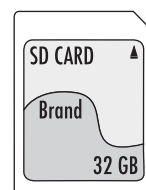
#### **Note:**

Your DVD player can only read storage mediums with several data formats if each folder contains only one data format.

#### **MultiMediaCard- /SecureDigital memory cards (MMC/SD)**

Insert the MMC/SD memory cards with the contacts forward and slide them straight into the memory card slot.

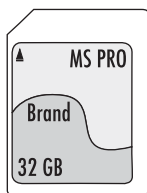
With this the side of the memory card, on which the contacts are located must face downwards with the chamfered corner facing to the right.



### MemoryStick/memory cards (MS/MSPro)

Slide the MS memory card into the memory card slot, level and with the contacts facing forward.

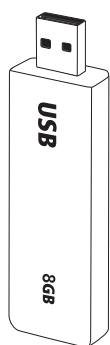
With this the side of the memory card, on which the contacts are located must face downwards with the chamfered corner facing to the left.



### USB memory sticks (USB)

The DVD player supports USB memory sticks 1.1 and 2.0 up to a capacity of 8 GB.

USB memory sticks must be inserted into the USB port.



- Press the **USB** button on the remote control. If several memory mediums (USB and memory card) are inserted press, repeatedly, the USB button until the contents of the USB memory stick is displayed. This procedure also applies to particular memory cards.

### 11.4 Removing memory cards/USB memory sticks

Memory cards/USB Memory sticks should then only be removed after the memory card slot is deactivated. Thus avoiding the possibility of damage or data loss.

- Press the **USB** button on the remote control repeatedly until you have returned to the DVD mode. For this a disc must be inserted into the DVD player.
- You can now remove the memory card/USB memory stick from the memory card slot/USB port.

## 12. Playing back DVDs, VCDs or S-VCDs

To play back a DVD/VCD/S-VCD with the DVD player...

- Switch on your television.
- Make sure that the DVD player is ready for operation.

If the television, the DVD player and possibly other connected devices (i.e. an audio component) are ready for operation and are switched on and the DVD player is connected correctly to the television you will now see the "Silvercrest" logo on the TV screen



- Open the disc tray on the front panel of the DVD player by pressing the **▲ OPEN/CLOSE** button.

**OPEN** now appears in the display on the front panel of the DVD player and on the television screen.

- Insert a DVD/VCD/S-VCD disc in the disc tray with the inscribed/labeled side up.
- Press the **▲ OPEN/CLOSE** button again to close the disc tray.

**CLOSE** will appear in the display on the front panel of the DVD player and on the television screen while the disc tray is closing.


- The contents of the inserted DVD/VCD/S-VCD will now be loaded; this may take a few seconds. In the meantime **LOADING** blinks in the display on the front panel of the DVD player and on the television screen.
- Playback of the inserted DVD/VCD/S-VCD starts automatically.

#### **i Note:**

DVDs, VCDs and S-VCDs that you want to playback with the DVD player may possibly have a country code which is printed on the DVD's jacket.

The DVD player can only playback DVDs/VCDs/S-VCDs with the country code .

If no country code is 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 DVD player
- then the DVD/VCD/S-VCD can possibly not be played back with the DVD player. You can check this by attempting to play back the DVD.

Depending on the inserted DVD/VCD/S-VCD it is possible that the contents of the DVD/VCD/S-VCD will not playback immediately, rather first a selection menu appears on the television screen.

In this event select the menu option, which will start the playback of the film, with the control buttons **◀ ▶ ▲ ▼** on the remote control.

- To start playback of the film press the **ENTER** button on the remote control or press the **PLAY/PAUSE ▶||** button.

In the display on the front panel of the DVD player, the following notices appear:

#### With DVDs:

- "DVD"
- the number of the currently playing chapter
- the played back so far time of the currently playing DVD in minutes and seconds

#### With VCDs/S-VCDs:

- "VCD" or "S-VCD"
- the number of the currently playing title
- the played back so far time of the currently playing VCD/S-VCD in minutes and seconds

## 12.1 Features during playback of a DVD, VCD or S-VCD

During the playback of a DVD/VCD/S-VCD you can use the following DVD player features...

### Pause playback

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

- During playback press the **PLAY/PAUSE ▶II** button. **II** will now appear in the display on the front panel of the DVD player and on the television screen.

On the television screen you will see a freeze frame of the scene that has just been halted.

- To continue playback of the film press the **PLAY/PAUSE ▶II** button.

### Stop playback (STOP ■)

To stop playback of the film on the inserted DVD/VCD/S-VCD press the **STOP ■** button.

#### With resume function


If you have cancelled playback of the inserted DVD/VCD/S-VCD by pressing the **STOP ■** button once the DVD player automatically saves the position where playback was interrupted. This function is called the "resume function". **PRESS PLAY KEY TO CONTINUE** appears on the television screen. As soon as you press the **PLAY/PAUSE ▶II** button again playback will continue from the saved position.

#### Without resume function

If you have cancelled playback of the inserted DVD/VCD/S-VCD by pressing the **STOP ■** button once and you press the **STOP ■** button a second time the saved position, at which you interrupted the playback, will be cleared. When you press the **PLAY/PAUSE ▶II** button again playback of the inserted DVD/VCD/S-VCD starts from the beginning.

## Access the DVD menu (MENU)

### **i** Note:

*This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.*

With many films on DVDs there is a main menu on the disc which, apart from the option of playing back the main film, allows you to select from the following contents:

- the subtitle and film dialogue languages
- direct chapter selection
- to playback the films bonus material (Background information, "Making of" etc.)

If such a menu is present on the DVD inserted in the DVD player you can access it during playback by pressing the **MENU** button on the remote control.

You can select particular menu options by pressing the control buttons **◀ ▶ ▲ ▼** on the remote control.

To confirm the selected menu option press the **PLAY/PAUSE ▶II** button or the **ENTER** button on the remote control.

To return to playback press the **MENU** button on the remote control again.

### **i** Note:

*If you cancel playback by pressing the **STOP ■** button twice (Playback stop without resume function) access to the disc's main menu is no longer possible.*

### Playback Control (PBC) with VCDs/S-VCDs

Many VCDs/S-VCDs have Playback Control (in short "PBC"). Playback Control indicates a main menu that allows operation of several functions of the VCD/S-VCD.

If PBC is available on a VCD/S-VCD inserted in the DVD player you must first activate it in order to be able to superimpose the menu.


- During playback or when playback is stopped press the **PBC** button. The message **PBC: OFF** appears in the display.
- Press the **PBC** button again. The message **PBC: ON** appears in the display. PBC is now switched on and the disc's main menu can be accessed with the buttons **MENU**, **TITLE** or **RETURN**.

### **i** Note:

*If you switch on PBC during playback then it is possible that playback will stop and start again from the beginning and/or with the main menu.*

### Skip to start of chapter (Skip)

### **i** Note:

*This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.*

With the buttons **SKIP FWD ▶▶** and **SKIP BWD ◀◀** you can, during playback, within the film on the inserted DVD/VCD/S-VCD ...


- skip forward to the beginning of the next chapter or
- skip backward to the preceding chapter

The respectively selected chapter will playback immediately without having to press the **PLAY/PAUSE ▶II** button. The number of the respectively selected chapter will be displayed on the front panel of the DVD player to the left of the played back so far time.



## Input of the chapter / title number via the number buttons

### **Note:**

This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

Instead of using the skip function you can enter the chapter within the film or title of an inserted DVD/VCD/S-VCD directly by entering the number via the number buttons on the remote control.

- During playback press the number buttons on the remote control corresponding to the chapter number – i.e. the **3** button for the third chapter.
- With playback stopped press the number buttons on the remote control corresponding to the title number – i.e. the **3** button for the third title.
- Playback of the chapter and/or title with the entered number now starts automatically.

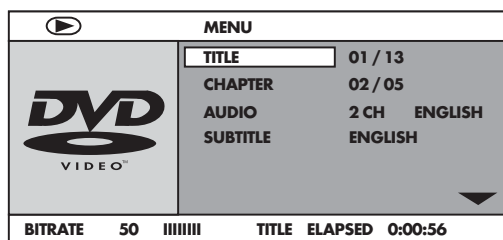
## Direct chapter or time selection via the Search function (GOTO)



















### **Note:**

This function may not be available on all DVDs/VCDs/S-VCDs! If you attempt to carry out functions that are not available the symbol  will be displayed on the television screen.

## Entry of the time position via search function DVD, VCD and SVCD:

- During playback press the **GOTO** button on the remote control. The time menu is superimposed on the television screen:



- The entry field **TITLE** is automatically selected first. Press the **ENTER** button and enter, with the number buttons, the desired title. On DVDs title 01 is most often the main film.
- Press the navigation button  to select the entry field **CHAPTER**. Press the **ENTER** button and enter, with the number buttons, the desired chapter.
- Press the navigation button  to select the entry field **AUDIO**. Press the **ENTER** button and select, with the navigation buttons  , an audio language.
- Press the navigation button  to select the entry field **SUBTITLE**. Press the **ENTER** button and select, with the navigation buttons  , a subtitle language.
- Press the navigation button  to select the entry field **ANGLE**. Press the **ENTER** button and select, with the navigation buttons  , another camera perspective (if available).
- Press the navigation button  to select the entry field **TT TIME**. Press the **ENTER** button and enter, with the number buttons, the desired title time.
- Press the navigation button  to select the entry field **CH TIME**. Press the **ENTER** button and enter, with the number buttons, the desired chapter time.
- Press the navigation button  to select the entry field **REPEAT**. Press the **ENTER** button and select, with the navigation buttons  , a repeat function (see also repeat functions).
- Press the navigation button  to select the entry field **TIME DISP**. Press the **ENTER** button and select, with the navigation buttons  , a time presentation (see also superimpose disc information).
- To fade the menu out press the **GOTO** button again.

## Audio CD

- During playback press repeatedly the **GOTO** button on the remote control. The following notices appear, one after the other, in which you can enter a time position with the number buttons:

**DISC GOTO:** Enter here a time position on the disc from where playback should start.

**TRACK GOTO:** Enter here a time position for the currently playing back title from where playback should start.

**SELECT TRACK:** Enter here a title number from where playback should start.



## MPEG CD

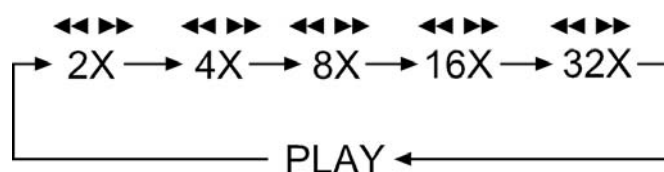
**SELECT:** Enter here a title number on the disc from where playback should start.

**GOTO:** Enter here a time position for the currently playing back title from where playback should start.

## Fast scan forward/backward


With fast scan you can select designated passages from the inserted DVD/VCD/S-VCD during playback.

- For fast scan forwards/backwards press the  **FAST FWD** and/or  **FAST RWD** button repeatedly to set the following fast scan speeds:



### **Note:**

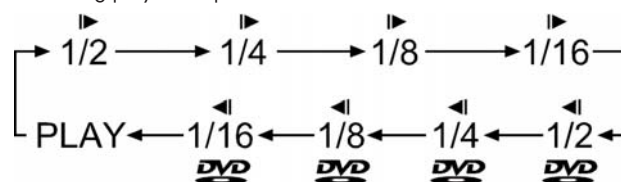
During fast scan no sound will be played back.

- To continue playback of the film at the selected place in normal speed press, during fast scan the **PLAY/PAUSE**  button.

## Slow playback forward (Slow motion)


To playback the contents of the inserted DVD/VCD/S-VCD in slow motion ...

- For slow playback forwards press the **SLOW** button repeatedly to set the following playback speeds:





### **Note:**

During slow motion playback no sound will be played.

- To continue playback from a selected position in normal speed, during slow motion playback press the **PLAY/PAUSE**  button.


## Individual frame playback

To playback the contents of the inserted DVD/VCD/S-VCD in step motion, during playback press the **STEP** button on the remote control. On the television screen the symbol for step motion playback  appears.

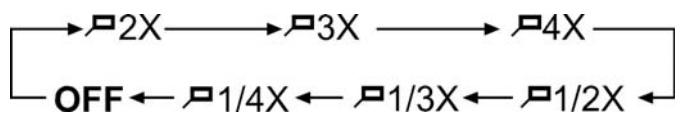
- Press repeatedly the **STEP** button to progress picture by picture.
- To continue playback in normal speed at a selected point, press the **PLAY/PAUSE**  button.

## Image enlargement (Zoom)

### **Note:**

This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

During the playback of an inserted DVD/VCD/S-VCD you can enlarge the image on the television screen in three levels. For this press the **ZOOM** button on the remote control to set the following enlargement levels:




With the control buttons     sections of the enlargement can be suspended.

To switch off the enlargement function and return to the normal image size press repeatedly the **ZOOM** button.

## Change camera aspect (ANGLE)


### **Note:**

This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

Many films on DVD contain chapters which were recorded simultaneously from various camera perspectives. With films that have such chapters available you can view the same chapter from different perspectives. For this press the **ANGLE** button on the remote control during playback of an inserted DVD. Each press of the **ANGLE** button will switch to one of the available camera perspectives.

## Superimpose/fade out subtitles

### **Note:**

This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

If the film on the inserted DVD has subtitles available you can superimpose these on the television screen during playback by pressing the **SUBTITLE** button on the remote control.


With the first press of the **SUBTITLE** button the subtitle of the first available language will be superimposed on the television screen. With each further press of the **SUBTITLE** button the subtitles of other available languages will be superimposed successively on the television screen.

The number of the currently superimposed subtitle language will be superimposed on the television screen ( i.e. 1/10 for the first of ten available subtitle languages).

When the last of the available subtitle languages is superimposed (i.e. 10/10 for the tenth of ten available subtitle languages) you can switch off the subtitle function by pressing the **SUBTITLE** button again. **OFF** is superimposed on the television screen.

## Change playback language


### **Note:**

This function may not be available on all DVDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

With many films on DVD you can, during playback, select another playback language by pressing the **AUDIO** button on the remote control. The first press of the **AUDIO** button switches to the first available playback language. With each further press of the **AUDIO** button other available playback languages, one after the other, are switched on. The currently switched on playback language will be superimposed on the television screen.

## Programmed playback (PROG)

### **Note:**

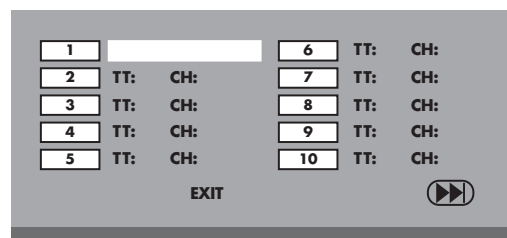
This function may not be available on all DVDs/VCDs/S-VCDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

With the "Programme" function you can put together your own film programme in so far as you can select only certain chapters of an inserted DVD/VCD/S-VCD for playback. In this way you can determine for yourself the sequence, in which the chapters are played back. You can compile a maximum of 20 chapters of a film for programmed play.










- Press the **PROG** button on the remote control during playback or when playback is stopped.

The Programme menu will be displayed on the television screen.

## Programme window



First are listed the programme positions 1-10, programme position 1 is highlighted.

1. With the number buttons enter the number of the title that is to be played back first. The highlight changes to chapter entry (CH:).
2. With the number buttons enter the number of the chapter that is to be played back. The highlighting moves to the programme position 2.
3. Select, with the navigation buttons    , further programme positions and enter title and chapter numbers for the programme positions.
  - To display the next 10 programme positions select, with the navigation buttons    , the field  and press the **ENTER** button. You can allocate up to 20 programme positions.
  - To delete entries in a programme position select the programme position and press the **ENTER** button.
  - To stop the programme function select the field **EXIT** and press the **ENTER** button. All allocated programme positions are deleted.
4. You start playback of the programme positions by selecting the field **START** and press the **ENTER** button.

During the programmed playback the notice **PROGRAM** appears in the display. To delete the programmed playback press twice, during playback, the **STOP ■** button on the front panel of the DVD player or on the remote control.


**Note:**

If you are not sure what number a title and/or chapter to be programmed has then select the corresponding chapter, during playback of the film, with the buttons **SKIP FWD ►►** and **SKIP BWD ◀◀** and subsequently press the **DISPLAY** button on the remote control to superimpose all information from the inserted DVD/VCD/S-VCD onto the television screen. Here you will find, amongst others, the current title and chapter numbers.

On this topic see also the section "Superimpose disc information".

### Superimpose disc information

**Note:**

This function may not be available on all DVDs/VCDs/S-VCDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

With this function you can superimpose all the available information from a DVD/VCD/S-VCD inserted into the DVD player onto the television screen during playback.

- For this, during playback, press the **DISPLAY** button on the remote control. On the television screen will be superimposed:

#### With DVDs:

- the current title number/the total number of titles
- the current chapter number/the total number of chapters
- the played back so far time in hours, minutes and seconds (**TITLE ELAPSED**)
- the time to the end of the film in hours, minutes and seconds (**TITLE REMAIN**)
- the played back so far time of the chapter in hours, minutes and seconds (**CHAPTER ELAPSED**)
- the time to the end of the chapter in hours, minutes and seconds (**CHAPTER REMAIN**)

#### With VCDs/S-VCDs:

- the current title number/the total number of titles
- the played so far time of the current playback title on the VCD/SVCD in hours, minutes and seconds (**SINGLE ELAPSED**)
- the time to the end of the currently playing back title in hours, minutes and seconds (**SINGLE REMAIN**)

To stop display of the disc information press repeatedly the **DISPLAY** button until the notice **DISPLAY OFF** appears on the television screen.


### Repeat function for DVDs, VCDs, S-VCDs and audio CDs

With the repeat function you can...

- ... in the case of DVDs, selectively repeat title, chapter or the entire DVD.
- ... in the case of VCDs/S-VCDs individual titles and/or the entire VCD/S-VCD repeatedly playback.
- ... in the case of audio CDs, playback repeatedly a particular track and/or the entire CD.

To switch on repeat playback...

- Press the **REPEAT** button several times during playback.

The repeat symbol  appears in the display with one of the following notifications:

- CHAPTER** Select **CHAPTER** to continuously repeat the currently playing back chapter until repeat playback is switched off or playback is cancelled by pressing the **STOP ■** button twice.

**TITLE** Select **TITLE** to continuously repeat the currently playing back title until repeat playback is switched off or playback is cancelled by pressing the **STOP ■** button twice.

**ALL** Select **ALL** to continuously repeat all available titles on the disc, thus the entire disc, until playback repeat is switched off or playback is cancelled by pressing the **STOP ■** button twice.

**RANDOM** Select **RANDOM** to play the titles on the disc in a random order. This setting is available only when playing audio CDs. To switch off repeat or random playback, during playback press repeatedly the **REPEAT** button until no further displays appear on the television screen.

### Repeat function with MP3/WMA/MPEG/ JPEG/Xvid discs

During playback press the **REPEAT** button several times to apply the following repeat functions (the set function appears in the display):

#### REPEAT ONE

Endless repeat of the current title/image.

#### REPEAT FOLDER

Repeat the current folder. If a folder structure is not available all titles/images on the disc and/or data carrier will be repeated.


#### RANDOM


Random playback of the titles on the disc and/or the data carrier.

### Repeat sequence (A-B)

With this function you can repeat playback of a favourite sequence within a chapter of the current playback disc.

To do this ...

- During playback press the **A - B** button on the remote control as soon as the desired sequence starts to playback.  **A** appears on the television screen.
- Press the **A - B** button again as soon as the end of the desired sequence is played back. Pay careful attention to the fact that the start and finish of the sequence must be located within a chapter.

 **AB** appears on the television screen.

Repeat playback of the selected sequence begins immediately without you having to press the **PLAY/PAUSE ►||** button. The sequence will continuously repeat until you press the **A - B** button again in order to switch off the function.

### Setting playback volume

Press the **VOL +** button on the remote control during playback to increase playback volume or the **VOL -** button to reduce playback volume.

### Set the audio channel

Press repeatedly the **L/R/ST** button on the remote control to set one of the available audio channels (**LEFT MONO**, **RIGHT MONO**, **MIX-MONO** or **STEREO**) of an audio CD, S-VCD or VCD.

### Dimmer

Press the **DIMMER** button on the remote control to change the brightness of the display on the DVD player in three stages (Bright, medium, off).

### To switch playback sound to mute (MUTE)

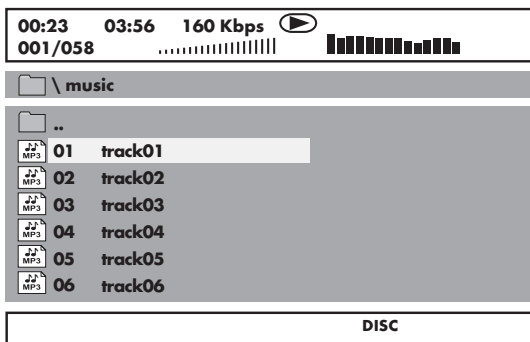
To switch the playback sound to mute press the **MUTE** button on the remote control during playback of DVDs, VCDs/S-VCDs, audio CDs and CD-Rs/CD-RWs with MP3 or WMA data. **MUTE** is displayed on the television screen. When you want to switch the playback sound back on press the **MUTE** button again or the **VOL +** and **VOL -** buttons. **MUTE OFF** or the corresponding volume level is displayed on the television screen.

## 13. Playback of JPEG-Photo CD/WMA/MP3/MPEG4

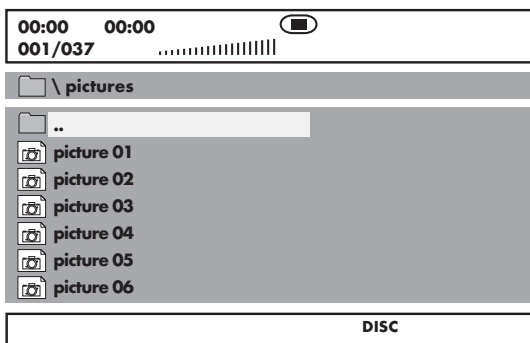
Insert a storage medium into the DVD player. If you use a memory card or USB stick press repeatedly the **USB** button until the desired playback source is depicted.

The contents of the data carrier (CD, DVD, USB memory stick or memory card) will be displayed on the television:

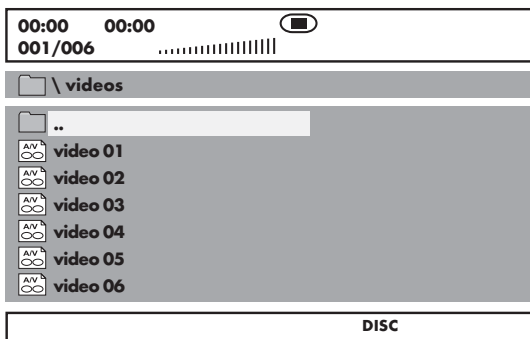
### Display of MP3 data





### Display of JPEG data



### Display of AVI and MPEG data



- The data is listed on the left (Data window). Folders will be depicted with the symbol .
- To superimpose the folders available on the disc press the **PROG** button repeatedly until the notice **FOLDER** appears at the bottom of the display.
- Press the **PROG** button again repeatedly until the notice **FILELIST** appears at the bottom of the display. Folders will now be faded out and all data on the disc is represented in a list.

- The area on the right is intended for the previewing of JPEG images. A preview appears as soon as you highlight a JPEG file in the file window.
  - At the bottom is located the information bar, in which is displayed the image size (JPEG Image) as well as the medium (DISC, USB or CARD), on which the files are located.
  - Select a file with the aid of the navigation buttons **▲ ▼**. You confirm the selection by pressing the **ENTER** button. The file will be played back and/or the JPEG Photo displayed.
1. To open a folder select the folder and press the **ENTER** button. The contents of the folder will be listed.
  2. To reach a higher folder level select the symbol  with the entry **..** and press the **ENTER** button.

### Playback of JPEG discs

- With the navigation buttons **▲ ▼** highlight an image and press the **ENTER** button or the **PLAY/PAUSE ▶||** button to open the image.

The image is shown on the display

Subsequently change the view to the next available image on the disc/in the folder.

- To display the currently shown image press the **PLAY/PAUSE ▶||** button longer.
- To continue the playback press the **PLAY/PAUSE ▶||** button again.
- You can access an image directly by entering the image's file number with the number buttons and subsequently confirm the entry with the **ENTER** button.
- With the navigation buttons **◀ ▶** you can rotate the image in 90° increments during playback.
- With the navigation buttons **▼ ▲** you can mirror the image horizontally or vertically during playback.
- During playback press the **STOP ■** button to display a miniature view of all images in the folder/on the disc. 12 miniatures will be displayed on each page.
- Select with the navigation buttons **◀ ▶ ▲ ▼** an image and start playback with **ENTER** or **PLAY/PAUSE ▶||**.
- Select with the navigation buttons **◀ ▶ ▲ ▼** one of the following entries from the bottom display lines and confirm the entry with the **ENTER** button.

<b>Slide Show</b>	Starts a slide show of the images in the folder/on the disc
<b>Menu</b>	Shows the available button functions for JPEG playback. Press the <b>ENTER</b> button until this menu has faded out.
<b>Prev</b>	switches to the previous page
<b>Next</b>	switches to the next page

- Press the **MENU** button to switch to the file list again

### Selection of slide show transitions:

You can select different transitions for changing from one image to the next. WIPE TOP, WIPE BOTTOM, WIPE LEFT, WIPE RIGHT, DIAGONAL WIPE LEFT TOP, DIAGONAL WIPE RIGHT TOP, DIAGONAL WIPE LEFT BOTTOM, DIAGONAL WIPE RIGHT BOTTOM, EXTEND FROM CENTER H, EXTEND FROM CENTER V, COMPRESS TO CENTER H, COMPRESS TO CENTER V, WINDOW H, WINDOW V, WIPE FROM EDGE TO CENTER and NONE.

- During the slide show press the **PROG** button until the name of the desired transition appears in the upper left corner of the television screen.

## 14. CD Ripping function

With the DVD player you can transfer music and speech files in the format .cda (CD Audio) or from a disc onto a USB memory stick. Thereby files in the MP3 format will be saved onto the USB memory stick.

### **Note:**

When transferring audio files to a data carrier be aware of the existing copyright laws and regulations! Make sure that you are producing copies for private use only and do not violate applicable laws!

CD RIP			
OPTIONS		TRACK	
Speed	Normal	track01	04:09
Bitrate	128kbps	track02	04:43
Create ID3	Yes	track03	04:09
Device	USB	track04	04:49
<b>SUMMARY</b>		track05	00:53
Selected TRACK	0	track06	01:08
Selected Time	00:00	track07	05:00
Start	Exit	Select all	Select none

- Place an audio CD into the disc tray.
- Insert a USB memory stick into the USB port.
- Whilst playback is stopped press the **MENU RIPPING** button on the remote control. The menu depicted above appears on the television screen.
- To set the various selection possibilities press repeatedly the **ENTER** button.

**Speed** Select this menu input to set the speed of the transfer either to **Normal** or **Fast**.

**Bitrate** Select this menu input to set the MP3 quality. Possible bitrates are 96 kbps, 112 kbps and 128 kbps. A higher bitrate will result in a larger MP3 file on the data carrier after copying.

**Create ID3** Select this menu input to automatically create an ID3 tag for the MP3 files.

- Select, with the control buttons **◀ ▶ ▲ ▼**, a title from the Title list and confirm with the **ENTER** button. The title will be marked with a tick. In the same way you select further titles for copying in MP3 format.
- To mark all titles for copying in MP3 format select, with the control buttons **◀ ▶ ▲ ▼** the input **Select all** and confirm with the **ENTER** button. All titles will be marked with ticks.
- To cancel the marking of all titles select, with the control buttons **◀ ▶ ▲ ▼**, the input **Select none** and confirm with the **ENTER** button. The markings will be deleted.
- To start the copying process select, with the control buttons **◀ ▶ ▲ ▼**, the input **Start** and confirm with the **ENTER** button.
- To exit the CD-Ripping function select, with the control buttons **◀ ▶ ▲ ▼**, the input **EXIT** and confirm with the **ENTER** button.

A window appears, in which is displayed the copying process with a progress bar.

CD RIP		
Ripping	Selected	TRACK
TRACK Progress ██████████	track01	28 %
Total Progress ██████████	track02	04:43
<b>CANCEL</b>	track03	04:09
<b>SUMMARY</b>	track04	04:49
Now ripping	track05	00:53
TRACK 01 / 16	track06	01:08
	track07	05:00

- To prematurely abort the copying process select the input **CANCEL** and confirm with the **ENTER** button.

### **Attention!**

Never remove the USB memory stick from the USB port during copying! Otherwise it could lead to data loss on the storage medium.

### **Note**

On the memory medium the index **RIP\_001** will be applied for the MP3 files. For each further copy process of a new CD another index **RIP\_002**, **RIP\_003** etc. will be applied.

## 15. Cleaning of the DVD player

Clean the housing of the DVD player with a slightly damp cloth and a mild cleanser only. When cleaning, make sure that no moisture gets into the DVD player!

Clean the inside of the disc tray, if necessary, exclusively with a clean dry brush (i.e. a lens brush obtainable from a photographic dealer).

Never clean the inside of the disc tray with anything moist!

### **Warning!**

Moisture penetrating into the DVD player creates the risk of an electric shock! The DVD player may also be irreparably damaged!

## 16. Disposal

### Disposing of the device



Do not, under any circumstances, discard the device in the household refuse. This product is subject to the European directive 2002/96/EC.

Dispose of the device through an approved disposal centre or at your community waste facility.

Observe the currently applicable regulations. In case of doubt, please contact your waste disposal centre.

### Disposing of batteries!

Do not dispose of the batteries with household waste. Every consumer is legally obliged to dispose of batteries at a collection site in his community/city district or at a retail store.

This obligation is intended to ensure that batteries are disposed of in an environmentally friendly manner.

Only dispose of batteries when they are fully discharged.

### Disposal of packaging



Dispose of the packaging materials in an environmentally responsible manner.

## 17. Troubleshooting

### Display is blank/DVD player shows no functions even though it is switched on

- A** Check to see that the power cable is inserted properly into the power socket.
- B** Check to ensure that the power socket in which you have plugged the power cable of the DVD player is live by connecting another device to it. If necessary plug the DVD player's power cord into another power socket.
- C** Check to see that the display dimmer function is switched off. To do this press the **DIMMER** button on the remote control.
- D** Switch off the DVD player by activating the **POWER** switch and then wait ten seconds. Then switch the DVD player back on by activating the **POWER** switch again.

### The display shows "NO DISC" even though there is a disc inserted

- A** The disc is dirty, scratched or damaged. Clean the disc or insert another disc.
- B** The Country/Region code on the inserted DVD/VCD/S-VCD does not correspond to the Country/Region code of the DVD player. In this case the DVD/VCD/S-VCD cannot be played with the DVD player.

### Inserted disc will not playback

It is possible that a layer of condensation has built up on the DVD player's laser scan lens. This can be the case especially if the DVD player has been subjected to strong temperature fluctuations.

If this is the case place the DVD player in a dry environment at normal room temperature. First remove the currently inserted disc from the disc tray.

Then leave the DVD player switched off for at least one hour without using until the condensation film has evaporated.

### No image or Black/White image only

- A** Check to make sure that all connection cables between the DVD player and the television (or Video projector) are firmly inserted into the corresponding sockets.
- B** Check to make sure that the settings in the OSD menu match the connections variant, with which you have connected the DVD player to the television (or Video projector).

**i** For this see chapter 8. "Connecting the DVD player to a television".

- C** Check by means of the television's (or Video projector's) operating instructions to see if settings to the television (or Video projector) may be necessary in order to use the DVD player with the television.

### No sound

- A** Check to see if the television and/or DVD player have possibly been switched to mute.
- B** Check to see if all connection cables between the DVD player and potentially connected audio components are plugged firmly into the corresponding sockets.

- C** Check whether the settings in the OSD menu match the connection option you have used to connect the audio components to the DVD player.

**i** For this see chapter 9. "Connecting an audio component to the DVD player".

- D** Using the television's instruction manual check to see if current settings to the television are necessary in order to use the DVD player with the television.

- E** Check by means of the operating instructions for a potential connected audio component if settings to it are necessary in order to use it with the DVD player.

- F** If you ...

- have connected the DVD player to a stereo television and have not connected an audio component to the DVD player or
- have connected a Dolby Prologic compatible audio component via the analogue stereo outlet (via cinch cables to the cinch sockets L and R) of the DVD player:

Check to see that you have selected in the OSD menu **AUDIO** with the menu input **FRONT SPEAKER** the setting **LARGE**.

### No 4:3 or 16:9 image

- A** Check by means of the television's operating instructions, which image formats the television has at its disposal.
- B** Check to see if the settings in the OSD menu match the available image format of the television.


### Remote control not functioning

- A** Check to make sure that the remote control batteries have been inserted into the battery compartment with the correct polarity.
- B** Check to see if the remote control batteries are exhausted and, if necessary, change both batteries.
- C** Make sure that there are no obstacles located between the remote control and the DVD player.
- D** Remain within five meters of the DVD player when using the remote control.

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

The playback language/Subtitle language setting in the OSD menu is not available on the inserted disc.

### One or several functions can not be switched on

The selected functions may not be available on all DVDs/VCDs/S-VCDs! If you attempt to execute a function that is not available, the symbol  is displayed on the television screen.

### None of the buttons on the device or on the remote control are functioning/other malfunctions

- A** Switch off the DVD player by pressing the **POWER** switch. Wait ten seconds and then activate the **POWER** switch again to switch the DVD player on once more.
- B** In the event that the malfunction is still present: Reset the DVD player to its default settings.

**i** For this see chapter 10.6 "Setup menu PREFERENCE".

Contact one of our service partners in your area if ...

- the stated function defect can not be resolved as described or
- other functional defects arise.

**i** For this see chapter 19 "Warranty and service".

## 18. Glossary / Key Word Index

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### What are DVDs, VCDs and S-VCDs?

#### DVDs

DVD is the short form for "Digital Versatile Disc". DVDs are a storage medium for audio and video data; they are available in 8 cm and 12 cm (Diameter) formats. Because of the much higher storage capacity as compared to CD-Rs/CD-RWs DVDs can provide a playback duration of up to eight hours for the audio and video data stored on them.

#### VCDs/S-VCDs

"Video CD" (VCD) and "Super Video CD" (S-VCD) are designations for two processes of compressed storage, thus space saving, of films on CDs. VCDs and S-VCDs are available in 8 cm and 12 cm (Diameter) formats. Their storage capacity is a great deal lower than that of DVDs. For this reason they only offer a playback duration, for the saved audio and video data on them, of 20 minutes (8 cm format) and/or 74 minutes (12 cm format).

VCDs are available in two versions:

- Only audio and video data can be played back on version 1.1 VCDs/S-VCDs.
- PBC (Playback control) functions are available on version 2.0 VCDs/S-VCDs. In addition still images can be played back in a higher resolution.

#### Playback Control (PBC)

Version 2.0 VCDs/S-VCDs have Playback Control (in short "PBC") at their disposal. Then on the VCD/S-VCD a main menu is available, by which various functions of the VCD/S-VCD are allowed to be operated.

### What are Title and Chapter?

Title is the name given to the largest units of image and sound units on DVDs; on many DVDs the (Main) film has the title number 01. For bonus material (i.e. Film trailer, background information etc.), that is available on many DVDs, other possible title numbers can be used.

Chapter is the name given to the next smaller image and sound units beneath title. If the DVD/VCD/S-VCD or its title is divided into chapters, numbers are assigned to you, through the input of which the chapter can be selected direct.

Bear in mind that not on all DVDs ...

- are the DVD or the title divided into (numbered) chapters
- Chapters are also designated as "Scenes" (i.e. in the main menu of DVDs)

### What are Scart, S-Video, Composite-Video Progressive Scan, YUV and HDMI?

#### Scart

Scart denotes a 21 pole standardized plug connection, via which the RGB signal, video signal and S-Video signal as well as a number of control and auxiliary signals are transmitted.

#### S-video

When the DVD player is connected to a television via S-Video the brightness and colour signals are transmitted separately; in this way a greater image sharpness and a reduced so called "Colour noise" is achieved.

Colour noise refers to the overlaying of the colours, mostly heavily saturated parts of a video image, through an irregular, restive breakdown structure.

#### Composite video

Video signal or FBAS signal; thereby it involves an image signal, in which colour and brightness information are included at the same time.

#### Progressive scan

In the normal way TV devices and Video projectors are controlled with so called "Half images". Thereby clearly visible line structures develop. Contrary to this, Progressive Scan denotes the output of full images (with this DVD player, at the output YPbPr) Progressive Scan signals can only be processed by playback devices equipped for this purpose (in particular large screen televisions and projectors). The image quality as opposed to traditional image signals is considerably higher.

#### YUV (component video out)

YUV indicates the component signal, which with this device is available at the output YPbPr in the form of so called "Half images"; as a rule this is the best signal for the control of large screen televisions and projectors, which can not process Progressive Scan signals. As with the RGB image transmission, YUV is comprised of three separated image signals:

- the brightness signal "Y" and
- the two colour differential signals "U/Pb" and "V/Pr"

#### Half images (Interlace)/Full images (Progressive Scan)

A standard television image is comprised of 576 visible lines; at first all odd and then all even image lines are displayed alternatively, thus each displays a half image. Thereby only 25 full images (50 Half images) can be displayed per second. This technique is designated as "Interlace" format.

Contrary to this with the so called progressive or "Progressive Scan" format all image lines are displayed every time, that is to say 50 full images per second are displayed. Thereby increasing the total quality of the images, still images and text for example appear sharper.

#### HDMI

HDMI is short for "High Definition Multimedia Interface" and refers to a 19 contact interface for complete digital transmission of audio and video data. With its high bandwidth HDMI handles all known today home electronics digital video and audio formats. HDMI transmits audio data up to frequencies of 192 kHz with text widths of up to 24 Bit on up to 8 channels. Thus not only all of today's image and sound formats introduced into home electronics including HDTV (up to the highest present resolution of 1080i) are transmitted without loss of quality but also future formats with yet higher resolutions.

#### Decoder

The sound on DVDs with home theatre sound is saved on the DVD in encrypted (encoded) form. Different encryption formats exist for several purposes, for example AC-3 for the playback of Dolby Digital Surround Sound.

In order to playback encrypted sound, the playback device (i.e. the DVD player) and/or the audio component connected to it (for example Surround system) must be equipped with a so called decoder, which converts the encrypted signal back into music and/or sound.

The Silvercrest SHDP 5.1 A1 DVD player is equipped with an AC-3 Decoder (for Dolby Digital 5.1 Surround Sound signals).

#### Dolby Surround

Dolby Surround is an analogue sound format, by which the two channels of a stereo sound signal are used in order to accommodate room sound information for further channels. Dolby Surround decoders convert the signals back into sound or music and send the audio to two additional speakers that are situated behind the listener.









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