OPERATION MANUAL

Cilo C-101 **DVD-Player**


cilo

The Art of Picture and Sound

Table of contents

A triangle with a lightning symbol draws the user's attention to "dangerous voltage" without insulation in the housing which may be high enough to entail a risk of electric shock.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

A triangle with an exclamation mark draws the user's attention to important instructions for use and maintenance in the accompanying manual which should be studied.
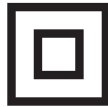
Symbol for Class II (double insulation).

WARNING: **TO MINIMISE THE RISK OF FIRE AND ELECTRIC SHOCK,DO NOT EXPOSE DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE HOUSING AS IT CONTAINS DANGEROUS VOLTAGE. ONLY SKILLED TECHNICIANS ARE ALLOWED TO CARRY OUT REPAIR AND SERVICE.**

CAUTION: If the power cord plug is to be replaced, it is important that the replacement is identical to the plug to be replaced, or that the new plug has been recommended by the manufacturer.

TO AVOID THE RISK OF ELECTRIC SHOCK, IT IS IMPORTANT TO INSERT THE PLUG CORRECTLY INTO THE SOCKET.

This DVD player includes a laser system.

There is a risk of dangerous radiation from the laser beam if buttons, controls and procedures are not used or carried out as described in this manual. To avoid contact with the laser beam, do not open the device.
DO NOT LOOK DIRECTLY INTO THE LASER BEAM.

WARNING: IT IS IMPORTANT THAT YOU STUDY AND OBSERVE BOTH THE INSTRUCTIONS IN THIS MANUAL AND THE INSTRUCTIONS ON THE DEVICE. KEEP THIS MANUAL FOR FUTURE USE.
This device was developed and made with a view to providing maximum safety for the user. Incorrect use of the device may cause electric shock or fire. The protection built into this device will protect the user if the procedure below is observed in connection with installation, use and repair. This device is fully electronic and contains no parts which can be repaired by the user.
THE HOUSING MUST NOT BE REMOVED. RISK OF DANGEROUS VOLTAGE. ONLY SKILLED TECHNICIANS ARE ALLOWED TO REPAIR THE DEVICE.
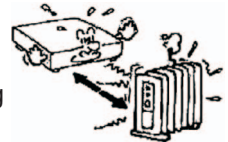
Read the manual
On unpacking the device, please read the manual carefully and observe all instructions given.

Power supply
Only the power supply indicated on the rating plate must be used for this device. If you are not sure which power supply you have, please contact the distributor or the local electricity supplier.

Earthing or polarization
If the plug cannot be inserted properly into the socket, or if the plug does not fit, the device must not be used in your country.

Ventilation
The housing is provided with slots and openings to ensure ventilation and reliable operation and protect the device against overheating. Do not block or cover these openings. The openings must never be blocked, for example by placing the device on a bed, a sofa, a carpet or similar surface.

Heat
Do not place the device near sources of heating such as radiator, register, stove or other heat-producing devices (including amplifiers).

Water and moisture
The device must not be placed close to water, such as bath tub, wash basin, kitchen sink or wash tub, in a damp cellar or close to a swimming pool, etc.

Cleaning
Unplug the device before cleaning. Do not use liquid detergents and aerosol cleaning agents. Use a dry cloth.

Power cords
Wiring must be organised to prevent people from stepping on the cables and to avoid pinching by objects placed on or beside them. Take special care around sockets and plug boxes and where the cable leaves the device.

Overloading
Make sure that sockets, extension flexes and plug boxes are not overloaded as this may lead to fire or electric shock.

Lightning

Unplug the device for additional protection during thunder or when the device is not used for prolonged periods. This will prevent damage to the device from lightning and surges.

Penetration of objects and liquid

Never push any objects through the openings into the device, as they may touch dangerous voltage points or short circuit parts and cause fire or electric shock. Do not spill liquid on the DVD player.

Accessories

The device must not be placed on unstable surfaces such as a trolley, stand, tripod, shelf or table. The device may fall and injure children or adults or be damaged. Use only trolley, stand, tripod, shelf or table which are very stable or provided with the device. The Device must be installed in accordance with the manufacturer's instructions and by means of installation equipment recommended by the manufacturer.
If the device is placed on a trolley, the trolley must be moved carefully. Sudden stops, unnecessary force and uneven surfaces may cause the trolley to turn over.

Disc drive

Keep your hands off the drive when it closes to avoid trapping your fingers.

Loads

Do not place heavy loads on the DVD player, and do not step on it. The load may fall and cause serious injury or damage to the device.

Discs

Do not use scratched, deformed or repaired discs. Such discs will break easily and may cause serious injury and damage to the device.

Damage

Unplug the device and contact skilled technicians in the following cases:

A) If power cord or plug is damaged.
B) If liquid has been spilled on the device or objects have fallen into the device.
C) If the device has been exposed to rain or water.
D) If the device does not work properly after adhering to the instructions in the user manual. Make only the setups mentioned in the manual, as incorrect setup may cause damage and will often make it difficult for a skilled technician to make the device work properly again.
E) If the device has been dropped or damaged in any other way.
F) When the operation of the device changes drastically,   the device requires service.

Service

Do not attempt to carry out any service work yourself. By opening or removing the housing, you will be exposed to dangerous voltage, etc. Any service work should be carried out by skilled technicians.

Spare parts

If spare parts are required, make sure that the technician uses spare parts specified by the manufacturer or with the same characteristics as the original component. Unauthorised spare parts may cause fire, electric shock, etc.

Safety check

After service or repairs on the DVD player, ask the service technician to carry out a safety check to ensure that the device is ready for use.

Handling instructions

■ The DVD player's top and back panel may become warm after prolonged use. This is not due to a defect.

■ When the DVD player is not used, remove the disc and turn off the device.

■ If the DVD player is not used for a long period, its function may deteriorate. Therefore, the DVD player should be turned on and used now and then.

Protect the power cord

Follow the instructions below to avoid irregular function, electric shock, fire, or injury:

■ Hold the plug firmly when inserting it into the socket
■ Avoid heat-producing devices
■ Do not place objects on the power cord
■ Do not carry out service work on or change the power cord

Positioning

Do not place the device in any of the following places:
■ In sunlight, close to heat-producing devices and in a closed trolley
■ At high temperatures (40ºC or above) or high relative humidity (90% or more)
■ In dirty places as some internal parts may be damaged

Do not put your fingers or any other objects into the device

■ Touching the internal parts is dangerous and may cause injury or damage. Do not open the housing.
■ Do not place foreign matter on the drive.

Interference

Placing the DVD player near a television set, radio or video player may cause poor picture and sound quality. In that case, move the DVD player further from television set, radio or video player.

Condensation

Condensation may occur in the following cases:

■ When the DVD player is moved directly from a cold to a warm place.

■ When the DVD player is used in a room where the radiator has just been switched on or where the cold air from the air condition plant is directed at the device.

■ If the DVD player is used in the summer in a warm and humid room just after it has been removed from an air conditioned room.

■ If there is steam or a high level of humidity in the room.

In case of condensation, the DVD player will not work properly. Remove the disc and turn off the device. Unplug the device and leave it for 2-3 hours. The DVD player will then have adapted to the environment and any condensation will have disappeared.
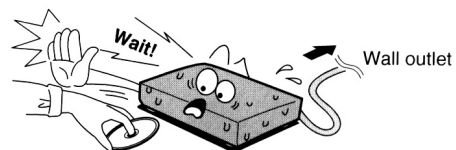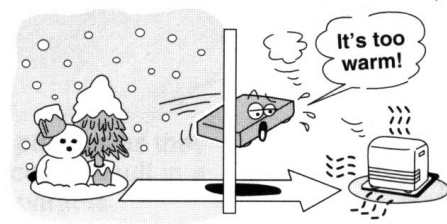
NOTE:

An Ø may appear on the screen when the device is turned on. This means that the required operation is not available.

The following discs can be used:

DISC'S	MARKING	CONTENTS	DIMENSION
DVD AUDIO	DVD AUDIO™	Audio	12cm
			8cm
DVD VIDEO	DVD VIDEO™	Audio +Video (moving picture)	12cm
			8cm
Video-CD (VCD)	COMPACT disc DIGITAL VIDEO / VIDEO CD	Audio +Video (moving picture)	12cm
			8cm
AUDIO CD	COMPACT disc DIGITAL AUDIO	Audio	12cm
			8cm
HDCD	HDCD®	Audio	12cm
			8cm
MP3	MP3	Audio	12cm
			8cm
JPEG	JPEG	Video(picture)	12cm
			8cm
KODAK CD	Kodak PICTURE CD COMPATIBLE	Video(picture)	12cm
			8cm
CD-R	CD·R	Audio or Video (moving picture)	12cm
			8cm
CD-RW	CD-RW	Audio or Video (moving picture)	12cm
			8cm
WMA	WMA	Audio	12cm
			8cm
* DivX	DivX VIDEO	Audio +Video (moving picture)	12cm
			8cm

- No other discs than those mentioned above cannot be used.
- Non-standard discs cannot be used, not even when marked as above.
- The quality of a CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW, or DVD-RAM depends on the way the CD was recorded. In some cases, the quality can be very poor.
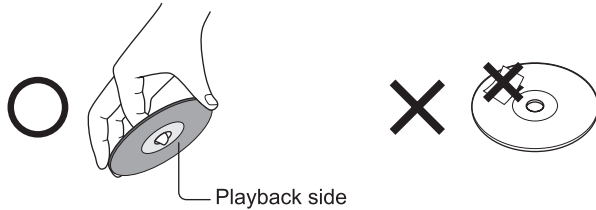
* DivX version: 3.11, 4.xx, 5,xx

Disc handling

■ Do not touch the playback side of the disc
■ Do not put paper or tape on the disc

Playback side

Cleaning the discs

■ Finger prints and dust may cause poor sound and picture quality. Wipe the disc with a dry, soft cloth. Wipe from the centre out. The disc should always be clean.
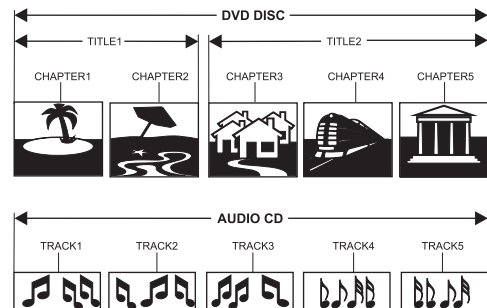
■ If the dust cannot be removed with a soft cloth, wipe the disc carefully with a moist cloth and then with a dry cloth.
■ Do not use any type of solvents such as thinner, petrol, commercial detergents and anti-static spray for vinyl records. These may damage the disc.

Storing the discs

■ Do not store the discs where they may be exposed to direct sunlight or where they are close to sources of heat.
■ Do not store the discs where they may be exposed to moist or dust, for example in a bathroom or close to a humidifier.
■ Store the discs standing in a cassette. If the cassettes are stacked or an object is placed on the cassettes, the discs may become uneven.

Organisation of discs

Normally, DVD discs are divided into titles, and the titles are then divided into chapters. Music CDs are divided into tracks.

DVD DISC				
TITLE1		TITLE2		
CHAPTER1	CHAPTER2	CHAPTER3	CHAPTER4	CHAPTER5

AUDIO CD				
TRACK1	TRACK2	TRACK3	TRACK4	TRACK5

Each title, chapter and track has been given a number, designated title number, chapter number and track number, respectively.

Back panel

1. Component video output
2. 5.1 channel audio output
3. Coaxial output
4. S-video output
5. Composite video output
6. Scart output
7. Main power input
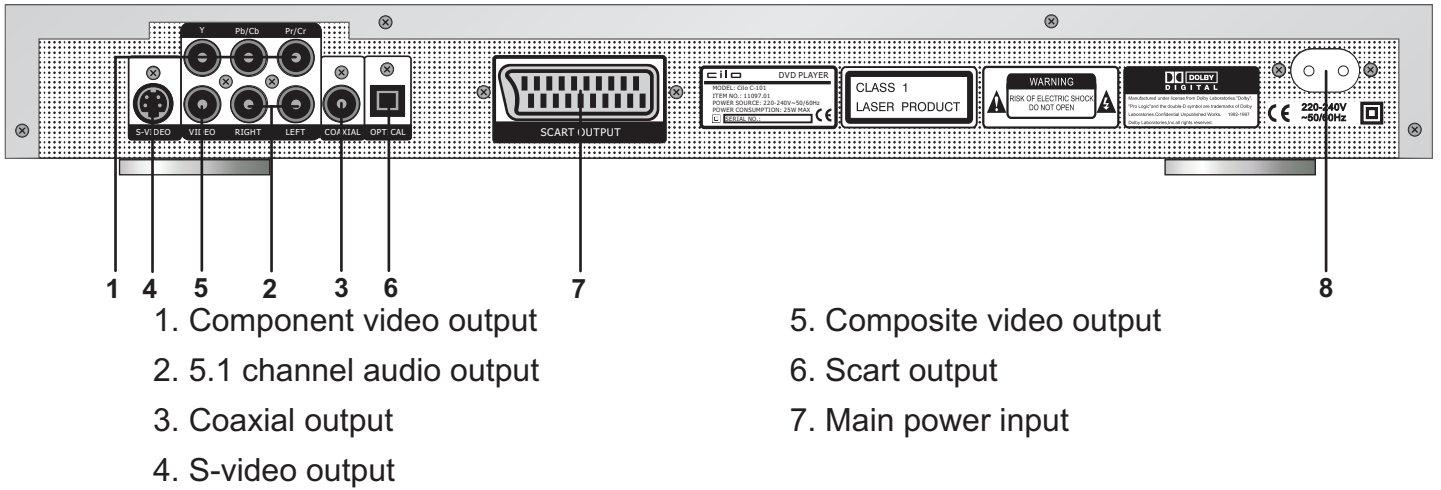
Normal connection

● **Connection to television set through scart cable**

Television

DVD Player

To Scart output

To Scart input
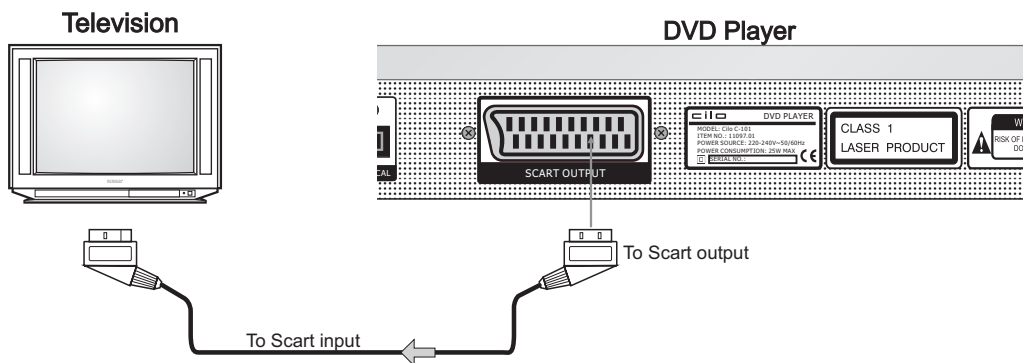
● **Connection to television set through A/V cable**

Television

DVD Player

Yellow   Red   White

To video input(yellow)
To audio inputs(red, white)
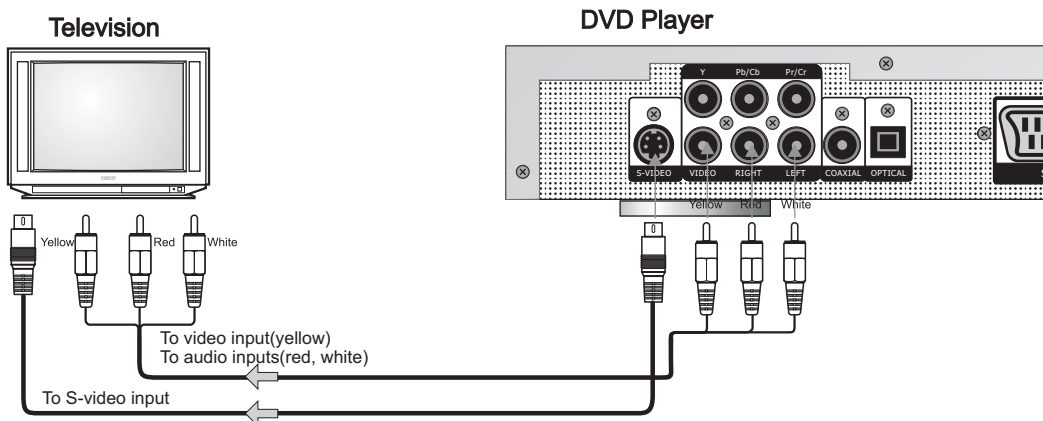
To S-video input

If the TV-set has S-video input, the DVD player can be connected with an S-video cable. When using an S-video cable, don't use the yellow video cable.
Note: Downmix must be set at STEREO to make the audio track fit a TV and not a surround system (see page 19).

● **Connection to an analogue surround system and a TV with a component YUV video input.**

Audio system

DVD Player

Television

Y   Pb/Cb   Pr/Cr

S-VIDEO   VIDEO   RIGHT   LEFT   COAXIAL   OPTICAL

SCART OUTPUT

MODEL: Cilo C-101
ITEM NO.: 11097.01
POWER SOURCE: 220-2
POWER CONSUMPTION
SERIAL NO.:

Red   White
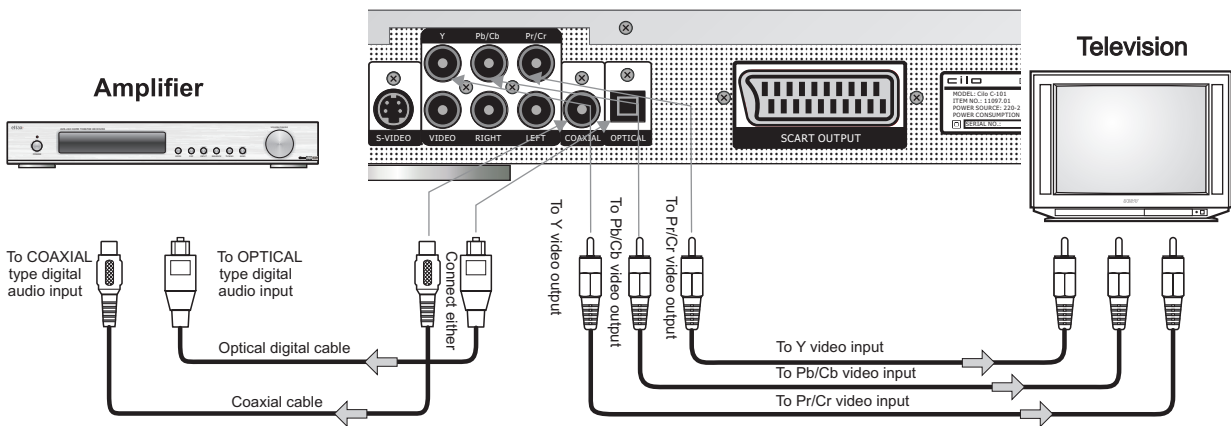
Red   White

To Y video output

To Pb/Cb video output

To Pr/Cr video output

To Y video input

To Pb/Cb video input

To Pr/Cr video input

To audio inputs of the amplifier
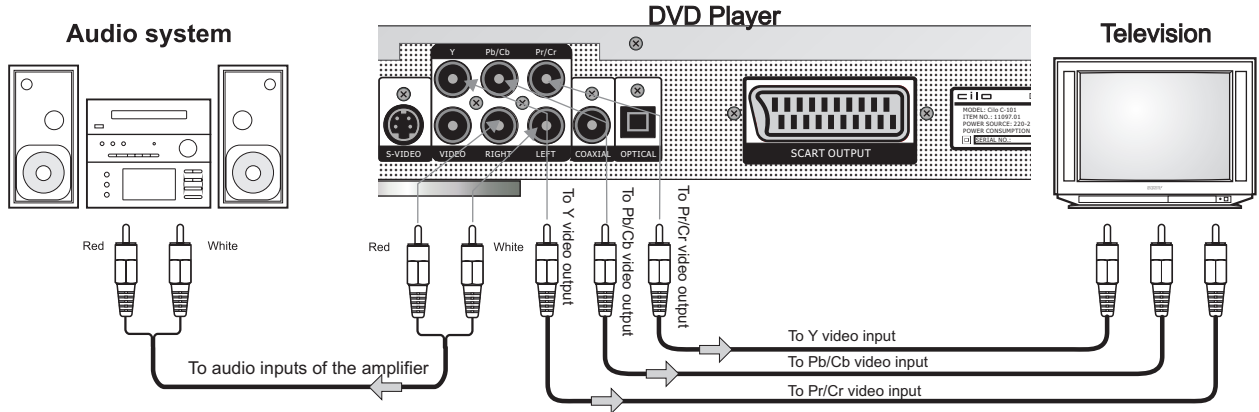
Note: Downmix must be set at 5.1 to make the audio track fit the analogue surround receiver (see page 19).

● **Connection to amplifier with digital audio input and TV-set**

Amplifier

Y   Pb/Cb   Pr/Cr

S-VIDEO   VIDEO   RIGHT   LEFT   COAXIAL   OPTICAL

SCART OUTPUT

MODEL: Cilo C-101
ITEM NO.: 11097.01
POWER SOURCE: 220-2
POWER CONSUMPTION
SERIAL NO.:

Television

To COAXIAL type digital audio input

To OPTICAL type digital audio input

Connect either

To Y video output

To Pb/Cb video output

To Pr/Cr video output

Optical digital cable

Coaxial cable

To Y video input

To Pb/Cb video input

To Pr/Cr video input

If the receiver is provided with coaxial input, the DVD player can be connected with a coaxial cable. When a coaxial cable is used, don't use the optic cable.
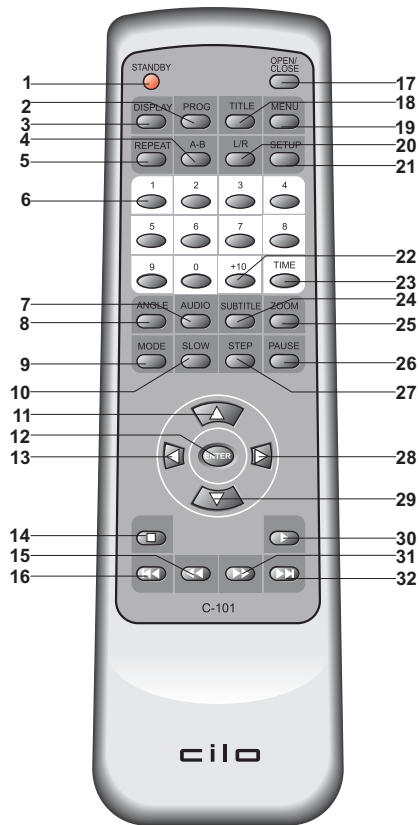
Front panel
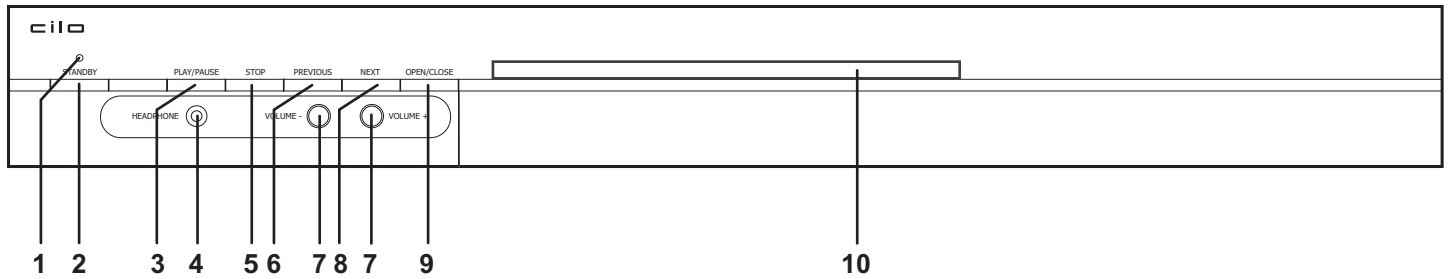
|	
1. Standby LED	6. Previous
2. Standby	7. Headphone volume
3. Play/Pause	8. Next
4. Headphones	9. Open/Close
5. Stop	10. DVD tray

Remote control

No.: Function	Page
1. STANDBY	14
2. PROGRAM	15
3. DISPLAY	15
4. A-B	15
5. REPEAT	15
6. 0-9 DIGITS	--
7. AUDIO	16
8. ANGLE	16
9. MODE	16
10. SLOW	15
11. SCROLL UP	20
12. ENTER	14/20
13. SCROLL LEFT	20
14. STOP	14
15. FAST REVERSE	14
16. PREVIOUS	14
17. OPEN/CLOSE	14
18. TITLE	16
19. MENU	16
20. L/R	--
21. SETUP	20
22. +10	--
23. TIME	15
24. SUBTITLE	16
25. ZOOM	16
26. PAUSE	14
27. STEP	15
28. SCROLL LEFT	20
29. SCROLL DOWN	20
30. PLAY	14
31. FAST FORWARD	14
32. NEXT	14

Installation of batteries

1. Remove the cover

2. Insert batteries. Make sure that the terminals correspond to the symbols shown.
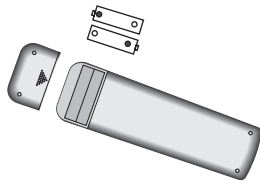
3. Replace the cover

Note:
- The batteries must be placed correctly.
- Do not recharge, heat, open or short-circuit the batteries. Do not throw the batteries into open fire.
- Do not mix different types of batteries or old and new batteries.
- If the remote control does not work properly, or if the range is reduced, all batteries should be replaced.

Using the remote control

Range: about 5 m from the front part of the remote control.
Angle: about 30º in either direction from the front part of the remote control.

30º   30º

5M
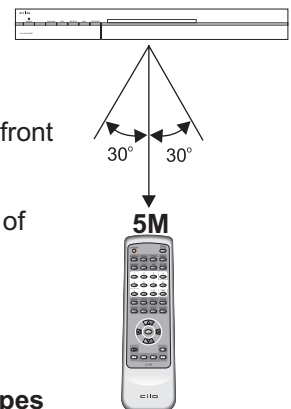
Do not expose the DVD player's sensor to strong sources of light, such as direct sunlight or other types of light. This may disable the use of the remote control.

Note:
- Aim the remote control at the DVD player's sensor.
- Do not drop or expose the remote control to other types of impact.
- Do not store the remote control in a very warm or moist place.
- Do not expose the remote control to water or any other liquid.
- Do not disassemble the remote control.

Preparation

- When you wish to watch a DVD film, switch on the TV-set and choose the video input connected to the DVD player.
- When you wish to listen to the disc from the audio system, switch on the audio system and choose the input connected to the DVD player.

Normal playback

1. Press Standby at the front panel to switch on the DVD player. The start logo appears on the TV screen. If the disc drive already contains a disc, the playback will start as soon as the DVD player is switched on.
2. Press the OPEN/CLOSE button to open the disc drive and insert a disc.
- Discs come in two different sizes. Place the disc correctly in the disc drive. If the disc does not fit into the opening, the disc may be damaged and the device may not work properly.
- Do not insert discs which are not suitable for this type of DVD player.
3. Press the OPEN/CLOSE button to close the disc drive; the playback will now start.
- Press the PLAY button if the playback does not start automatically.
4. Some discs will start by presenting a menu. Use the cursor button on the remote control to choose among the different items, then press PLAY. Alternatively, you can enter the number of the function in question.

Pause

1. Press PAUSE/STEP to stop playback (still picture). The sound will be deactivated in still mode.
2. Press PLAY to continue normal playback.

Stop playback

1. Press the STOP button to stop the playback. The start logo will reappear on the TV screen. Some discs offer the possibility of resuming playback from the same spot, for example DVDs and music CDs.
2. Press PLAY to continue playback where the playback was stopped, or from the start.
3. Press STOP twice the stop the playback completely.

Previous and next

During playback, press PREV I<< to go back to the start of the chapter. Press PREV again to go back to the chapter before that, etc. (please note: this function depends on the disc format and may vary from one disc to the other).
With each activation of NEXT >>Iduring playback, the device will skip the current chapter and go on to the next.

Fast forward/reverse

1. Press F.FWD >> to go fast forward on the disc. The speed changes every time F.FWD >> is pressed.
2. Press PLAY to revert to normal playback.
3. Press F.REV << to go fast backward on the disc. The speed changes every time F.REV << is pressed.
4. Press PLAY to revert to normal playback.

IMPORTANT

All descriptions refer to DVDs. Function and display may vary if other types of discs are used.

VIDEO MODE

The video output can be set to "YUV", "CVBS", or "RGB".

OSD (On Screen Display)

Press DISP to switch between "title played", "title left", "chapter played", "chapter left", and "display off".

SUBTITLE

When SUBTITLE is pressed, the display shows "SUBTITLE 01/XX XXXXX". "01" designates the language number, "XX" the total number of languages, and "XXXXX" designates the country's language (the number of languages depends on the disc). A selection of up to 32 languages is available on the screen.

STEP

Press STEP to step a single frame/picture forward during playback. Pres PAUSE/STEP several times to step several frames/pictures forward.
Press PLAY to resume playback

REPEAT

Press REPEAT once to choose on-screen which chapter to repeat. Press once more to choose the title to be repeated, and press a third time to choose to repeat all, and four times to cancel the repetition.
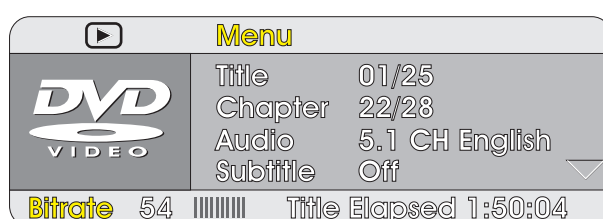
A-B REPEAT

Press A-B RPT to set up the starting point and again to set the stop point and complete the set-up. The section between A and B will be repeated. Press the button a third time to cancel.

PROGRAMME

Press PROG to enter programme mode. Enter the number at the desired programme on track or title and chapter and move the cursor to START to start the programme. If you wish to cancel the function, press STOP and then PLAY.

TIME (search)

Press TIME once, to view the search menu, and press once more to cancel the function. In the search menu, use the UP/DOWN- and DIGIT-buttons to make the desired choice. Press the PLAY button to confirm the choice.

TIME

If you press the TIME key once, the search menu is displayed and if you press the key once more, the function is cancelled. In the search menu, the desired option can be selected by means of the UP/DOWN key, the number keys and PLAY. Press PLAY to confirm your choice. The Time Menu comprises the following:

Title: Shows how many titles the disc includes, and which title is shown.
Chapter: Shows how many chapters the disc includes, and which chapter is shown.
Audio: Shows which audio track is heard, and which audio tracks the disc includes.
Subtitle: Shows which subtitle language is used, and the languages that are available.
Angle: Shows how many camera angles that are used, and the number of camera angles available.
TT Time: Shows the total time of the title concerned.
CH Time: Shows the total time of the track concerned.
Repeat: Shows which repeat mode has been selected
Time Disp.: Shows which display mode has been selected.
Note: The Time Menu is only active during DVD playback. Otherwise the TIME key is a GOTO function where you can enter the desired point in time that you wish to go to.

▶	Menu	
DVD VIDEO	Title	01/25
	Chapter	22/28
	Audio	5.1 CH English
	Subtitle	Off ▽
Bitrate 54 ▍▍▍▍▍▍▍▍	Title Elapsed 1:50:04	

ZOOM

Press this button to enlarge the picture. The size of the picture changes every time the button is pressed.

NTSC/PAL

Choose between PAL, NTSC, and multi through the setup menu. In the multi function, the device will find the right system.

VOLUME and MUTE

Press the volume + button to increase the volume and the volume - button to reduce the volume. When MUTE is pressed once, the sound will disappear. Press once more to restore the sound.

MODE

Press the MODE button to change between the video outputs.

MENU

Press this button to see the main menu and make the desired choice. (This button can be used for DVDs with multi-layer menu. Make the desired choice).

TITLE

On some DVDs, the title menu will be shown when this button is pressed. Numbers can also be used to choose the desired tracks.

ANGLE

When watching sports, concerts or a play, press this button to see the same action from different angles. (Applies to discs with this function. Some discs were recorded from several angles, and the desired angle can be selected, for example from the front, from the side, the whole picture or from outside).

AUDIO
(selecting audio channel)

Press this button to choose between different types of sound reproduction, such as:
Audio: 1/2: AC3 2 CH English
Audio: 2/2: AC3 5.1 CH English

Playing JPEG files

JPEG files contain picture information which can be encoded by micro computer software and transmitted to the TV screen via a video output interface. This function is useful in many contexts. For example teachers can change pictures to be shown in the classroom to JPG files by means of a digital camera or a scanner which are often used within the IT world and transfer the pictures to CD-R discs. This will make things easier for the pupils when the teachers play the discs via a TV set or other types of equipment in the classroom. It reduces the repetitive work for the teachers, and the discs are easy to store (information on discs can be stored for more than 100 years). By means of a digital camera or scanner, families can transfer pictures to CD-R discs. If, for example, a picture requires 100K bytes, one disc will hold about 6000 pictures. Manufacturers can show their customers pictures of their products one by one.

Note: The actual contents vary from one type of disc to the other.

1. When a JPEG disc is loaded in the DVD-player, an automatic slide show will be launched.

   Each picture will be displayed and scaled to fit the screen.

   Press STOP to enter the file library.

   Use the SCROLL key to navigate the pictures, and press PLAY to display a picture.

   When the a picture has been chosen, the slide show will resume with the next picture in the library.

2. Press SCROLL to rotate the picture. These operations are allowed only when a picture is being

   displayed normally and will be cancelled automatically when a new picture is displayed.

3. Press ZOOM to execute the zoom function and select the zoom enlarging scale with I<< and >>I.

   In zoom mode, press the SCROLL buttons to move the picture on the screen. With zoom mode off,

   the next picture will be scaled to fit the screen.

   Press PLAY to cancel the zoom mode and resume the slide show.

JPEG limitations

- JPEG files containing CMYK colors is not supported by this DVD-player.
- The range of pixels should not be exceeding 3840 X 3840 pixels, in order to achieve the best Performance.

Mp3 discs

MP3 is an audio compression mode using level 3 of the international MPEG standard, whereby the sound signal is compressed at the ratio of 12:1. An MP3 disc can record music for playback over 600 minutes or record over 170 songs in a sound quality that fully matches the sound quality of CDs.

How to play an MP3 disc

When playing an MP3 disc, you can choose between the following two file menus by pressing the PROG key: FILE LIST and FOLDER LIST.

1. FOLDER LIST

   First the menu is displayed, then press the arrow keys UP/DOWN and LEFT/RIGHT and then PLAY to select subdirectory and music.

2. FILE LIST

   Here you select the files to be played by pressing the arrow keys UP/DOWN and LEFT/RIGHT and then PLAY or by pressing the number keys and PLAY for direct selection. If the entered number is not Available, the message "INPUT INVALID" will be displayed.

PLAY MODE

Five different play modes are available: FOLDER, SINGLE, REPEAT ONE, REPEAT FOLDER, and SHUFFLE.

When you press REPEAT during playback, you can choose between the following play modes:

1. FOLDER: Plays the entire music menu in normal order.

2. SINGLE: Plays one music track.

3. REPEAT ONE: Plays one music track several times.

4. REPEAT FOLDER: Plays the entire music menu several times.

5. SHUFFLE: Plays music tracks in random order.

DVD SETUP MENU

When you press the SETUP key on the remote control, the setup menu will be displayed.

When you have entered the setup menu, press the Scroll buttons to navigate and select the item desired. When you have selected an item, press PLAY to confirm the entry and go to the sub-menu.

GENERAL SETUP

This menu is used for setting up the TV screen format, video functions and DVD functions with the options "TV DISPLAY", "ANGLE MARK", "OSD LANGUAGE", "CAPTIONS", "SCREENSAVER" and "LAST MEMORY".

TV DISPLAY
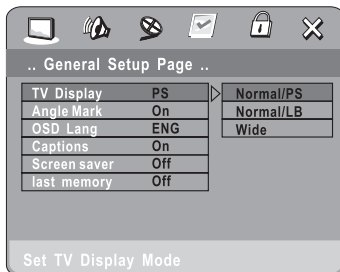Here you select the format of the TV to which the DVD is connected.
NORMAL/PS
4:3 Pan & Scan for a normal TV.
NORMAL/LB
4:3 Letterbox for a normal TV.
WIDE
16:9 Wide screen for a widescreen TV.

Note: Available aspect ratios will be printed on the back of the DVD packaging.
Some DVDs are recorded in the cinema widescreen format (16:9) and others in the standard format (4:3). Some DVDs are recorded in both formats and may thus feature the Pan Scan function. If available, the Pan Scan function will allow the 4:3 format to fill out the entire screen. However, a part of the picture will be cut off in both sides.

| TV screen / Film format	4:3			16:9
	Normal	Full view	Letterbox	Wide screen
4:3				
16:9				

ANGLE MARK
When a DVD enabling multiple camera angles is used, the user can select a certain camera angle by means of the ANGLE key on the remote control. However, the function must be activated first. The ANGLE MARK setting must be "ON", if you want the unit to support multiple camera angles.
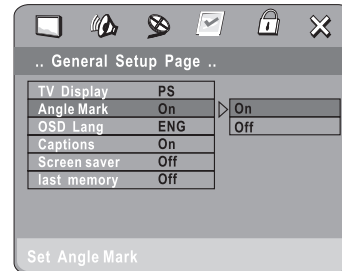
OSD LANGUAGE
This function allows you to select a language for the setup menu and for the screen display. You can choose between English, French, German, Spanish, Danish and Dutch. (Some versions of the unit may feature more or fewer languages.)
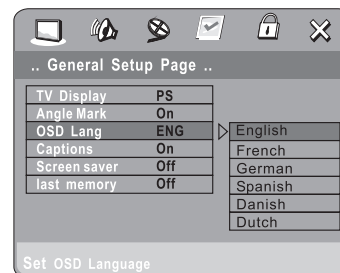
CAPTIONS
Closed captions (CC) is a standardised method used to code text into a NTSC TV signal. A DVD may include Closed Captions. If a DVD title has a (CC) mark on the back of the packaging, you can set captions to "ON" and read the written headlines on the TV screen. The unit is preset to "ON".
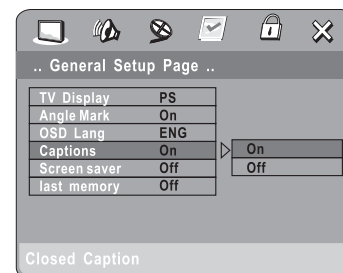
SCREEN SAVER

If the unit is not used for 2 minutes, the screen saver will be activated. This will prolong the service life of the connected TV set. The screen saver is preset to "ON".

```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. General Setup Page ..            │
│                                      │
│  TV Display      PS                  │
│  Angle Mark      On                  │
│  OSD Lang        ENG                 │
│  Captions        On                  │
│  Screen saver    Off    ▷  On        │
│  last memory     Off       Off       │
│                                      │
│  Screen Saver                        │
└──────────────────────────────────────┘
```
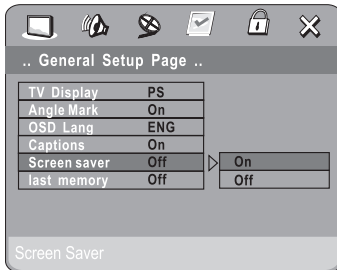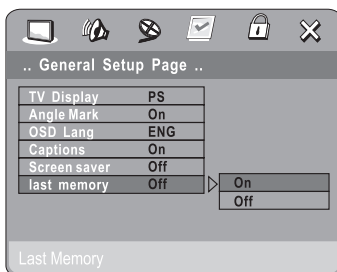
LAST MEMORY

This function will remember where the DVD was stopped the last time and allow you to continue from that point. Last Memory is preset to "ON".

```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. General Setup Page ..            │
│                                      │
│  TV Display      PS                  │
│  Angle Mark      On                  │
│  OSD Lang        ENG                 │
│  Captions        On                  │
│  Screen saver    Off                 │
│  last memory     Off    ▷  On        │
│                            Off       │
│  Last Memory                         │
└──────────────────────────────────────┘
```

AUDIO SETUP

Includes Downmix setup, SPDIF setup, Dolby Digital setup and HDCD setup.

DOWNMIX

Here the analogue sound format is selected.

```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. Downmix Setup Page ..            │
│                                      │
│  Downmix      5.1  ▷  LT/RT          │
│                       Stereo         │
│                       5.1            │
│                                      │
│  Set Downmix Mode                    │
└──────────────────────────────────────┘
```

LT/RT: A kind of Dolby Pro Logic format. It is used when the unit is connected to a Pro Logic receiver through stereo RCA cables.
STEREO: Used when the unit is connected to a TV solely through a Scart cable, or when the unit is connected to a Dolby Pro Logic II receiver through stereo RCA cables.
5.1: Used when the unit is connected to a 5.1 analogue receiver through the 5.1 outputs.
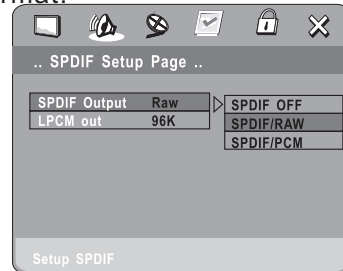
SPDIF SETUP

Here you set up the digital sound format that comes from the co-axial or optical output on the back panel. This signal is used when the unit is connected to a digital surround receiver.
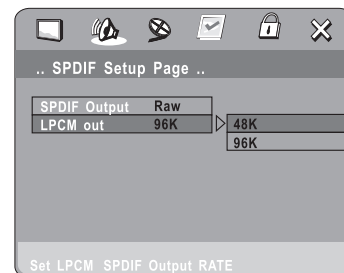**OFF:** Closes the digital outputs.
RAW: Opens for the pure, non-modulated digital signal.
PCM: Stands for Pulse Code Modulation. It may be necessary to activate this function if the digital surround receiver cannot recognise the sound format.

```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. SPDIF Setup Page ..              │
│                                      │
│  SPDIF Output    Raw  ▷  SPDIF OFF   │
│  LPCM out        96K     SPDIF/RAW   │
│                          SPDIF/PCM   │
│                                      │
│  Setup SPDIF                         │
└──────────────────────────────────────┘
```

LPCM OUTPUT

Here the digital output format is selected. If 48KHz is selected, the sampling frequency will be converted to 48KHz. If 96KHz is selected, the sampling frequency of the digital signal will not be converted.
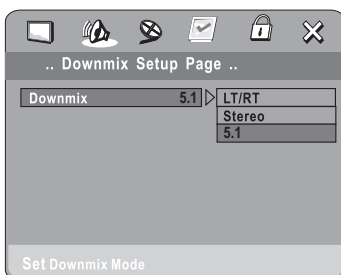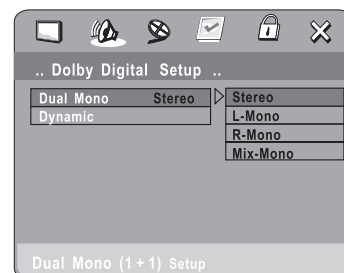
```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. SPDIF Setup Page ..              │
│                                      │
│  SPDIF Output    Raw                 │
│  LPCM out        96K  ▷  48K         │
│                          96K         │
│                                      │
│  Set LPCM  SPDIF Output RATE         │
└──────────────────────────────────────┘
```

DUAL MONO

Here you can choose between stereo, left channel mono, right channel mono or mixed mono. This function can e.g. be used for a VCD with two languages (e.g. English on the left-hand side and French on the right-hand side) where you choose only to hear one channel in both speakers.

```
┌──────────────────────────────────────┐
│  □   🔊   🚫   ✓   🔒   ✕            │
│  .. Dolby Digital Setup ..           │
│                                      │
│  Dual Mono      Stereo  ▷  Stereo    │
│  Dynamic                   L-Mono    │
│                            R-Mono    │
│                            Mix-Mono  │
│                                      │
│  Dual Mono (1 + 1) Setup             │
└──────────────────────────────────────┘
```
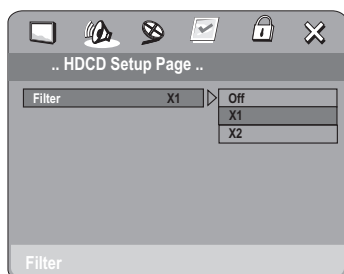
DYNAMIC RANGE COMPRESSION
To avoid disturbing the neighbours at night, you can use this function to reduce the sound effects volume without changing the original tone.

```
┌──────────────────────────────┐
│  □  🔥  ⊗  ☑  🔒  ✕         │
│ ── Dolby  Digital  Setup ──  │
│  Dual Mono      Stereo    ┌─ FULL │
│  Dynamic                  ├─ 3/4  │
│                           ├─ 2/4  │
│                           ├─ 1/4  │
│                           └─ OFF  │
│  Dynamic  Range  Compression │
└──────────────────────────────┘
```
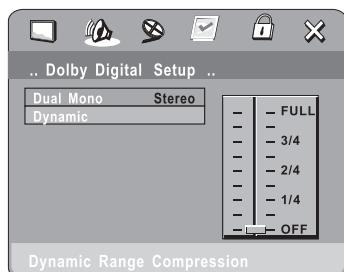
HDCD
This function is used to select sampling frequency for HDCDs. However, the function is only active when playing HDCD format discs.

```
┌──────────────────────────────┐
│  □  🔥  ⊗  ☑  🔒  ✕         │
│  ── HDCD Setup Page ──       │
│  Filter      X1  ▷ ┌ Off     │
│                    │ X1      │
│                    │ X2      │
│                              │
│  Filter                      │
└──────────────────────────────┘
```

OFF: HDCDs will be played like normal audio CDs.
1X (44.1K) or 2X (88.2K): HDCDs will be played at a sampling frekquency of 44.1KHz or 88.2KHz if possible. (This setting depends on the contents of the disc).

VIDEO SETUP

SCART OUT
Here the desired video output is selected. However, note that component video output is not possible through the Scart output.

```
┌──────────────────────────────┐
│  □  🔥  ⊗  ☑  🔒  ✕         │
│  ── Video setup  page ──     │
│  SCART OUT       ┌ CVBS      │
│                  │ RGB       │
│                  │ Component │
│                              │
└──────────────────────────────┘
```
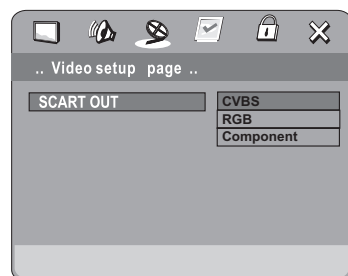
CVBS: Composite video output through the Scart output.
RGB: RGB output through the Scart output.
Component: Component video output through the component video outputs on the back panel.
Note: This output may allow both Interlace Scan and Progressive Scan. You switch between IS and PS by means of the MODE key on the remote control.

PREFERENCE SETUP

This menu item includes TV type, audio language, subtitles, disc menu language, parental control and default settings.
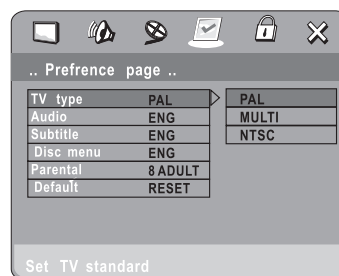
TV TYPE
Here you select the TV system used in the country in which you live.
PAL: Europe
MULTI: This setting is often available in both places. If not, the unit must be set according to the TV system used.
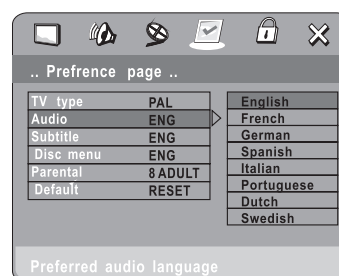**NTSC**:The USA
In the TV manual you can see which TV system is used.

```
┌──────────────────────────────┐
│  □  🔥  ⊗  💻  🔒  ✕         │
│  ── Prefrence  page ──       │
│  TV  type    PAL  ▷ ┌ PAL    │
│  Audio       ENG    │ MULTI  │
│  Subtitle    ENG    │ NTSC   │
│  Disc menu   ENG             │
│  Parental    8 ADULT         │
│  Default     RESET           │
│  Set  TV  standard           │
└──────────────────────────────┘
```

AUDIO
Used to select the desired dubbing/audio language for the DVD film.
Note: This is only possible if the disc supports the audio language in question.
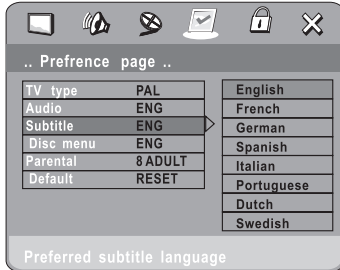
```
┌──────────────────────────────┐
│  □  🔥  ⊗  ☑  🔒  ✕         │
│  ── Prefrence  page ──       │
│  TV  type    PAL    ┌ English    │
│  Audio       ENG  ▷ │ French     │
│  Subtitle    ENG    │ German     │
│  Disc  menu  ENG    │ Spanish    │
│  Parental    8 ADULT│ Italian    │
│  Default     RESET  │ Portuguese │
│                     │ Dutch      │
│                     │ Swedish    │
│  Preferred  audio  language  │
└──────────────────────────────┘
```

SUBTITLE LANGUAGE
Used to select the desired subtitle language for a DVD film.
Note: This is only possible if the disc supports the subtitle language in question.

DISC MENU
Used to select the desired disc menu language for a DVD film.
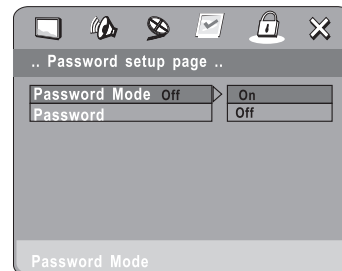**Note**: This is only possible if the disc supports the disc menu language in question.
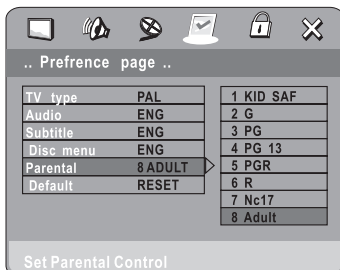
PARENTAL CONTROL
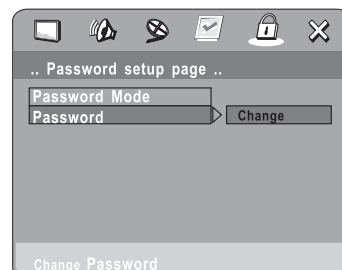This function is used to limit children's watching of films with "adult scenes". Parental control varies from film to film and is indicated on the film cover.

There are eight parental control levels from 1 to 8. When the parental control level is set to 8, all films can be watched.
Note: The password setting must be "OFF" before the parental control settings can be changed.

DEFAULT SETTINGS
This function is used to reset the settings of the unit to the factory settings.
Note: If you activate this function, all the settings that you have made will be lost.

PASSWORD SETUP

PASSWORD MODE SETUP
Here the password function can be activated. If the password function is not "ON", the parental control settings can easily be changed.
Note: The default password is "8806".

PASSWORD
This menu is used if you wish to add your own personal code.
Note that this code will not be reset, when the unit is reset.
The default setting is "8806".

This troubleshooting guide may help you find a possible cause of and solution to a problem. If there are still problems, please contact the local service centre or distributor.

PROBLEMS AND POSSIBLE SOLUTIONS

PROBLEM	POSSIBLE SOLUTION
No power supply	Check that the plug has been inserted properly into the socket.
No picture	Check the connection between DVD player and TV set.
	Check that the TV set is working properly.
No sound	Check the connection between DVD player and any other connected units.
	Check that TV set and amplifier are working properly and adjusted correctly.
The disc is not played	Check that the disc has been inserted correctly.
	Clean the disc.
Does not react to signals from the remote control	Remove any objects blocking the signal between remote control and DVD player.
	Check that the remote control is aimed at the front panel sensor.
	Check batteries and replace as required.
Picture interference	Check the disc for dust and scratches.
	Clean or replace the disc.
	Turn off the device, wait for ten seconds and turn it on again.
No reaction when buttons are pressed	Power drop-out, power cuts, etc. Turn off the device, wait for ten seconds and turn it on again.

The DVD player is your ticket to a home cinema. Every single technical detail in this technology is better than in any other previous AV equipment. This brand new digital technology compresses the A/V effect from the cinema down on a disc with a diameter of 12 cm, i.e. the size of a CD. Particularly by means of Dolby Digital and DTS, it is possible to achieve excellent digital surround sound. The DVD player can also be used with the existing CDs, CD-Rs and CD-RWs (however, it cannot be used with all CD-RW discs).

Comparison between DVDs and other discs:

	DVD				LD	SVCD	VCD	CD
Encode method	Digital/MPEG II				Analog	Digital	Digital/ MPEG I	Digital
Capacity	Single-side single-layer 4.7G	Double-side single-layer 8.5G	Single-side double-layer 9.4G	Double-side double-layer 17G		650MB	650MB	650MB
Playing Time	133 minutes	242 minutes	266 minutes	484 minutes	Single-side 60 minutes double-side 120 minutes	45 minutes	74 minutes	74 minutes
Disc diameter	12cm/8cm				30cm/20cm	12cm	12cm	12cm/8cm
Horizontal resolution	More than 500 line				No more than 430 line	No more than 350 line	No more than 250 line	
Picture proportion	Multiple kinds				One kind	One kind	One kind	
Subtitle	32 kinds				16 kinds at most	4 kinds		
Language	8 kinds				4 kinds at most	4 kinds at most	2 kinds	2 kinds
Sound quality	48KHz, 96KHz/ 6, 20, 24bit				44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit

Parental control

This device allows parental control if the DVD has a specific certification. This function allows you to prevent your children from watching things which you consider inappropriate for them. Refer to the DVD certification and the accompanying information to find out if it carries a certification.

Adjusting the size on the TV screen

It is possible to adjust the TV screen in different ways (see the table).

Support of many different languages

The DVD player allows you to choose among up to 8 different languages and 32 different subtitles for one DVD.

Support of many different camera angles

You can choose yourself, from which camera angle you wish to watch the DVD.

Picture format on Disc	TV Screen Size		
	4:3		16:9
	Pan Scan	Letter-box	Wide Screen
4:3			
16:9			

Functions supported by DVDs

DVDs support many different functions and can be used independent on type of DVD player and manufacturer. Below is a list of the functions are supported by this DVD player.

ALL	Regional code and signal system	16:9 LB	Picture formats
DOLBY DIGITAL	Dolby digital surround sound	R RESTRICTED	Parental control
dts DIGITAL OUT	DTS output	4	Camera angles
8	Number of languages	CC	Closed Caption
32	Number of subtitle languages		
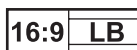
System and output

VF Signal system	NTSC/PAL
Frequence response	CD: 4Hz-20KHz(EIAJ) DVD: 4Hz-22KHz(48KHz)(Sample result) 4Hz-44KHZ(96KHz)(Sample result)
Audio S/N ratio	> 92 dB
Video/Picture	MPEG1; MPEG2
Audio	MPEG1, MPEG2, PCM, DOLBY DIGITAL, DTS, ANALOG STEREO
Audio output	Electric level output: 2.0Vp-p
Video output	Electric level output: 1Vp-p

General data

Power	220V-240V~ 50Hz
Power consumption	25W
Dimensions (HxWxD)	56 x 430 x 260mm
Weight	4.0 kg
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5% to 90%

Note: We reserve the right to make changes without notice.

MACROVISION

This device includes copyright protected technology covered by various American patents and other intellectual property rights owned by Macrovision Corporation and others. Use of this copyright protected technology is only allowed after prior approval from Macrovision Corporation, and the device is only to be used for the showing of films in private homes and other limited areas, unless otherwise approved by Macrovision Corporation. Reverse construction or demounting is not allowed.

The consumer's attention is attracted to the fact that not all high-definition TV sets are fully compatible with this device and this may cause picture interference.

In case of problems of the type 525 and 625 progressive scan, the consumer is recommended to switch to "standard definition". If you have any questions regarding the compatibility of your TV set with this 525p and 625p DVD player, please contact our customer service.

DOLBY DIGITAL

dts DIGITAL OUT ®

Own notes

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