

Contents

Contents	1
Safety instructions	3
Operating safety.....	3
Set-up location.....	3
Repairs	4
Intended environment.....	4
Power supply	4
The DVD player	4
Norms/Electromagnetic compatibility	4
Battery handling.....	5
Package contents	6
Unpacking.....	6
Check package contents.....	6
Overview of the appliance	7
LCD TV	7
Remote control.....	9
Start of operation	11
Inserting the batteries in the remote control	11
Connect TV aerial	11
Connecting power supply	11
Switching the LCD TV on and off.....	11
After switching on the unit for the first time.....	12
Channel selection.....	12
Setting the volume.....	13
Picture settings.....	13
Displaying information.....	13
Opening the favourites list	14
Selecting the source	14
The DVD mode	15
Formats supported.....	15
Switching between TV and DVD modes	15
Inserting the DVD.....	15
Connecting a USB stick.....	16
Inserting memory cards.....	16
Operating the DVD player via the LCD TV.....	17
Operating the DVD player using the remote control.....	17
DVD menu system.....	18
Media operation	21
Recorder operation.....	21
Videotext	22
Using the videotext	22
Selecting a page.....	22
Useful videotext functions	23

Basic OSD menu settings	24
Navigating in the menu	24
PICTURE menu	25
SOUND menu	25
FUNCTION menu	26
TV menu in TV-mode.....	28
DTV menu in DTV-mode	29
HDMI / YPBPR menu in HDMI-mode or YPBPR-mode	30
PC menu in PC-mode	30
Examples of connections	31
Connecting headphones	31
Digital amplifier connection by a coaxial connection	31
Connecting the DVD player.....	31
Connecting a video recorder	32
Connecting a DVD recorder	32
Connecting a receiver (SAT, DVB-T, decoder, etc.).....	32
Connecting a DVD recorder or video recorder and SAT receiver	33
Connecting a camcorder	33
Device with HDMI or DVI output.....	33
Connecting a PC	34
Troubleshooting	35
Do you need more help?.....	36
LCD TV pixel faults	36
Cleaning	37
Disposal	37
Packaging.....	37
Appliance.....	37
Batteries	37
Technical specifications	38

Copyright © 2010

All rights reserved.

This manual is protected by copyright. All rights reserved. Copying mechanically, electronically and any other way is prohibited unless written permission from the manufacturer is obtained.

Medion® is the owner of this copyright.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for borne and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Subject to technical and optical changes as well as printing errors.

Safety instructions

Operating safety

- Children should be supervised to ensure they do not play with this unit. This unit is not intended for use by people (including children) with reduced physical, sensory or mental abilities or for those without experience and/or knowledge, unless they are supervised by a person responsible for their safety or they have been instructed on its use.
- Keep packaging material such as plastic film away from children. There is a risk of suffocation if used improperly.
- Never open the casing of the LCD TV (electrical shock, short circuit and fire hazard)!
- Never insert any objects through the slots and openings into the inside of the LCD TV (electrical shock, short circuit and fire hazard)!
- The slots and openings on the LCD TV are for ventilation purposes. Do not cover these openings (overheating, fire risk)!
- Do not put any pressure on the display. There is a risk that the screen may break.
- The remote control has a class 1M infrared diode. Never use optical devices to look at the LED.
- The DVD player is a Class 1 laser product. The device is equipped with a safety system that prevents the escape of dangerous laser rays during normal use. Never manipulate or damage the safety system of the device, to avoid eye injuries.
- Caution! There is a risk of injury if the screen is damaged! Recover all broken pieces using protective gloves and send them to your Service Centre for proper waste disposal. Then wash your hands with soap because chemicals may have leaked out.
- To avoid damaging the screen do not touch it with fingers or sharp objects.
- Contact **customer services** if:
 - the power cable is burnt or damaged
 - liquid has penetrated the appliance
 - the appliance is not operating correctly
 - the appliance has fallen, or the casing is damaged

Set-up location

- In the first few hours of use new appliances can release a typical, unavoidable but totally safe smell, which reduces with time. To help reduce the amount of odour build-up, we recommend that you ventilate the room at regular intervals. We have taken appropriate measures during the development of this product so that levels are explicitly below legislative limits.
- Keep your LCD TV and all connected appliances away from moisture and avoid dust, heat and direct sunlight.
- Do not use the appliance outdoors because other effects such as rain, snow etc. can also damage the appliance.
- The device must not be exposed to water droplets or spray. Do not place objects that are filled with water (such as vases) on the device. The container may tip over and the liquid will impair the electrical safety.
- Do not place any exposed sources of ignition (candles or similar) on or near the device.
- Do not operate the appliance near water and do not set it up near a wash-hand basin or bath, etc.
- Make sure that there is enough clearance in the wall units! Ensure a minimum separation of 10 cm around the appliance for sufficient ventilation.
- Operate all components on a stable, level and vibration-free base, to prevent the LCD TV from falling over.
- Avoid dazzle, reflections and strong bright-dark contrast in order to protect your eyes.
- The optimal viewing distance is 5 times the screen diagonal.



Repairs

- Repairs to your LCD TV should only be carried out by qualified specialists.
- If a repair must be carried out please contact our authorised service partner only.
- Make sure to use only replacement parts provided by the manufacturer. The appliance may sustain damage if unsuitable replacement parts are used.

Intended environment

- The appliance can be operated at an ambient temperature of +5° C to +35° C and a relative humidity of 20% - 85% (non condensing).
- In the switched-off state the LCD TV can be stored from -20° C to +60° C.
- Keep the appliance at a distance of at least one metre from high frequencies and magnetic sources of interference (television, loudspeaker boxes, mobile telephones etc.) to avoid malfunctioning.
- After transporting the LCD TV wait until the appliance has reached ambient temperature before switching it on.
- Large changes in temperature or fluctuations in humidity can cause moisture to build up due to condensation within the LCD TV, which can cause an electrical short circuit.
- During thunderstorms or if the appliance is not going to be used for long periods, remove the plug from the mains socket and the aerial cable from the aerial socket.

Power supply



Please note: Even when the mains switch is off some components of the appliance are live. In order to disconnect the power to your LCD TV or to completely isolate the appliance from voltage sources remove the mains plug from the mains socket.

- Only plug the LCD TV into an earthed socket with 100-240 V~ 50 Hz. Contact you electricity provider if you are not sure if the socket is earthed or not.
- The socket must be near the LCD TV and easily accessible.
- In order to disconnect the power to your LCD TV or to completely isolate the appliance from voltage sources remove the mains plug from the mains socket. Always grab the plug firmly when unplugging it from the socket. Never pull on the lead.
- For extra safety, we recommend using an over-voltage protection device to prevent your LCD TV sustaining damage as a result of power surges or lightning strikes.
- If you are using an extension cable, make sure that it complies with VDE requirements. If in doubt, contact your electrician.
- Position the cable so that nobody is able to step on it or trip over it.
- Do not place any objects on the cable to avoid damaging it.

The DVD player

- The DVD player is a Class 1 laser product. The device is equipped with a safety system that prevents the escape of dangerous laser rays during normal use. Never manipulate or damage the safety system of the device, to avoid eye injuries.



Norms/Electromagnetic compatibility

The LCD TV fulfils the electromagnetic compatibility requirements and the electrical safety standard.

The device complies with the requirements of EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC

This device fulfils the basis requirements and the relevant regulation of the Ecodesign Guideline 2009/125/EG (Commission Regulation 1275/2008).

Battery handling

Batteries can contain combustible materials. If not handled correctly batteries can leak, become very hot, ignite or even explode, which could damage your appliance or/and your health.

Please ensure compliance with the following advice:

- Keep batteries away from children. Contact your doctor immediately if a battery is swallowed.
- Never charge batteries (unless it is clearly indicated).
- Never discharge batteries by high power output.
- Never short-circuit the batteries.
- Never expose the batteries to excessive heat such as sunshine, fire or similar.
- Do not take apart or deform the batteries. Your hands or fingers could get injured or battery fluids could get into your eyes or onto your skin. If this should happen then rinse the affected areas immediately with a large amount of clean water and contact your doctor immediately.
- Avoid heavy impacts and vibrations.
- Always observe the correct polarity.
- Make sure that the plus (+) and minus (-) poles are correctly inserted in order to avoid short circuits.
- Never mix new and old batteries or different types of batteries. This could cause your appliance to malfunction. In addition, the weaker batteries would discharge too much.
- Immediately remove used batteries from the appliance.
- Remove the batteries from the appliance if you do not intend to use it for a long period of time.
- Replace all the old batteries in an appliance with new batteries of the same type.
- Isolate the contacts of the batteries with sticky tape if you want to store or dispose of them.
- Clean the contacts on the battery and appliance before inserting.

Package contents

Unpacking

- Select a suitable place for setting up the appliance.
- Open the box very carefully to avoid damaging the appliance. The device could be damaged if you use a knife with a long blade to open the box.
- The box contains a number of small items (including batteries). Keep these items out of reach of children; the parts are easy to swallow.
- Store the packaging material in a safe place; only use this box to transport the TV.



CAUTION!

Do not let children play with the plastic film. There is a risk of suffocation!

Check package contents

Please check your purchase to ensure all items are included and contact us within 14 days of purchase if any of the following components are missing:

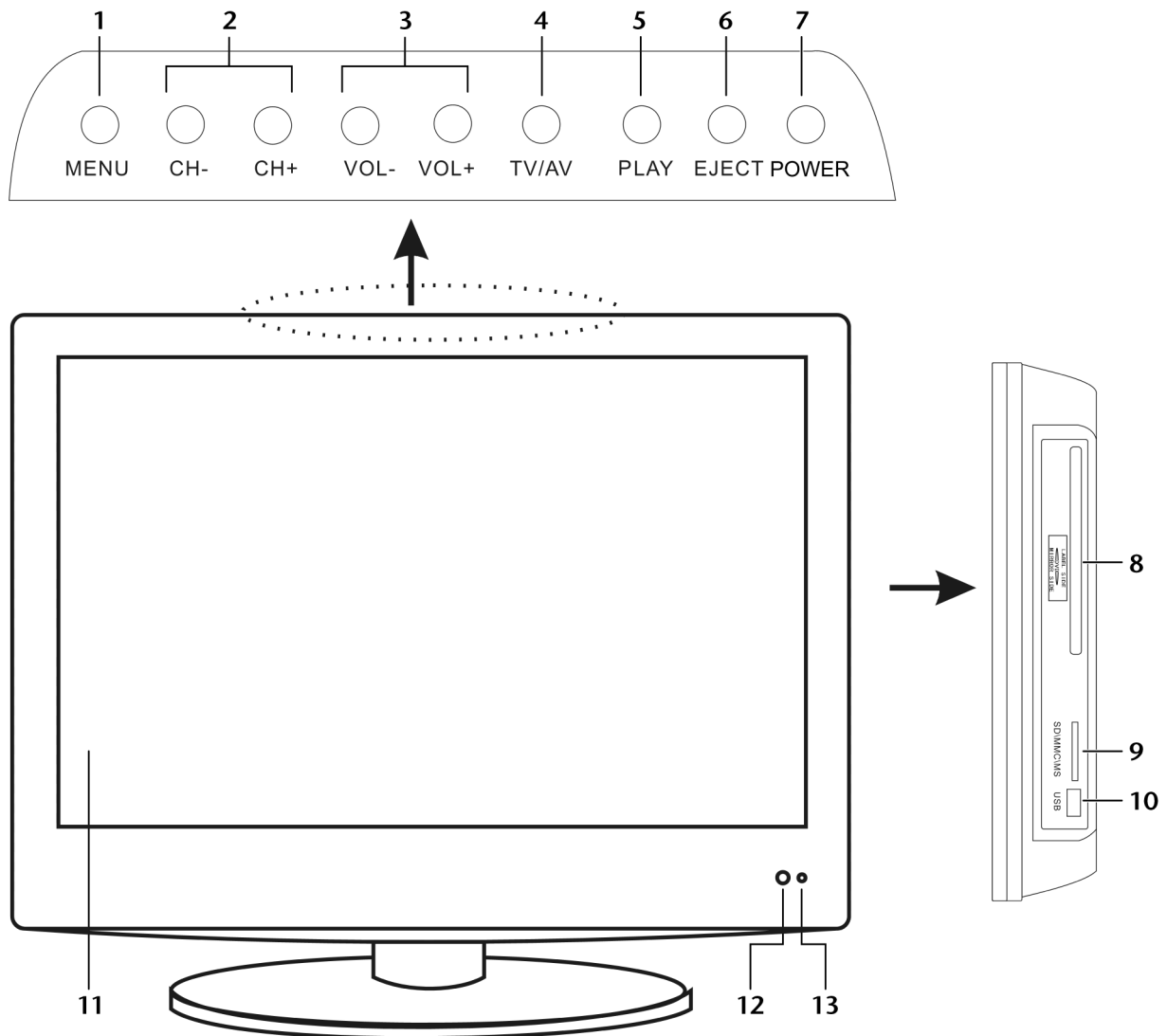
With the product that you purchased you receive:

- LCD TV
- Remote control
- Batteries: 2 x R6 / AA / 1.5V
- Mains cable
- These Operating instructions and warranty documents

Overview of the appliance

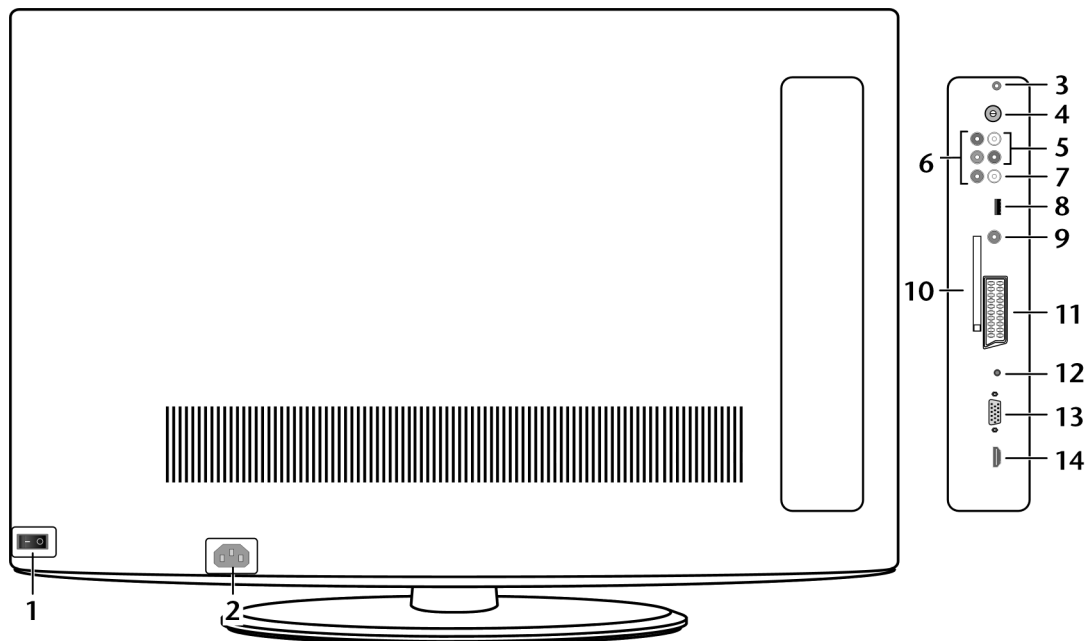
LCD TV

Front and controls on the top and on the right-hand side




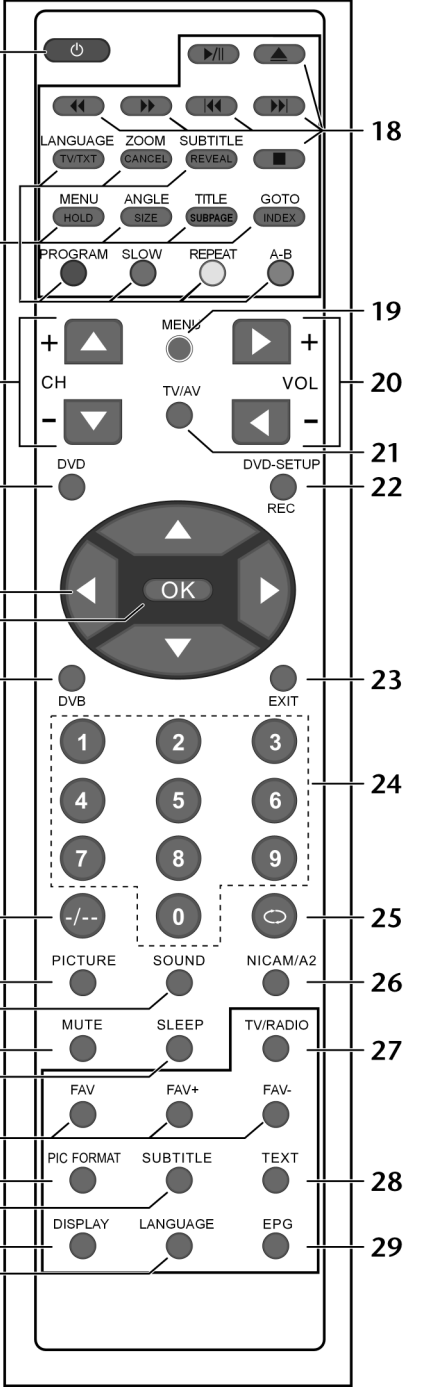

- | | |
|----------------------------|---|
| 1. MENU | Call up the on-screen menu |
| 2. CH-/ CH+ | Select a channel or navigate through the menu ▼ ▲ |
| 3. VOL-/VOL+ | Adjust the volume or navigate through the menu ◀ ▶ |
| 4. TV/AV | Change the input source |
| 5. PLAY | Play/pause the disc playing |
| 6. EJECT | Eject the disc |
| 7. POWER | STANDBY, i.e. switch off the LCD temporarily |
| 8. DVD | DVD drive |
| 9. SD/MMC/MS | SD/MMC/MS slot |
| 10. USB | USB port |
| 11. TFT display | |
| 12. Infrared sensor | reception field for the infrared TV signals. |
| 13. ON indicator | red when the appliance is in standby mode; green when the appliance is switched on. |









Rear and connections on the left-hand side



- | | |
|-----------------------------|--|
| 1. Mains switch | |
| 2. Mains connection | |
| 3. Headphone out | Ear/headphone connection: To connect a headphone with 3.5 mm jack plug |
| 4. RF | Connection using an aerial |
| 5. Audio In R/L | Audio inputs (red/white) for Y Pb Pr or Video |
| 6. Y Pb Pr | Video inputs (green/blue/red) for connecting devices with component output |
| 7. Video | Video input: to connect a device via composite |
| 8. USB | USB connection for PVR function |
| 9. COAX | Digital coaxial output only DVD mode |
| 10. Common Interface | CI Slot |
| 11. SCART | SCART socket |
| 12. PC IN | Audio input for PC |
| 13. VGA | VGA connection: to connect a PC |
| 14. HDMI | HDMI connection: to connect a device with an HDMI output. |

Remote control

1		STANDBY, i.e. switch off the LCD TV temporarily		
2	Buttons for Teletext operating in TV mode	TV/TXT	switch on, render transparent, switch off the Teletext	
		CANCEL	switch to TV while Teletext is searching	
		REVEAL	reveal hidden text	
		HOLD	stop page	
		SIZE	press to see top half of page double size; press again to see the bottom half of page double size; press again for normal size	
		SUBPAGE	open subpage	
		INDEX	access start page	
		Colour buttons	short cuts-follow the coloured links in the text	
2	Buttons for DVD operating in DVD mode	LANGUAGE	select DVD disc language	
		ZOOM	adjust picture size in DVD mode	
		SUBTITLE	select DVD disc subtitle	
		MENU	DVD play list / disc menu	
		ANGLE	select DVD picture angle	
		TITLE	DVD title	
		GOTO	play your favourite title/chapter/track	
		PROGRAM	edit the program and play	
		SLOW	play DVD programs at slow speed	
		REPEAT	repeat playing the title or chapter	
A-B	select and play the preferable paragraph of DVD program by pressing this button twice at the beginning and end of it.			
3	CH +/ CH-	select the TV programme		
4	DVD	switch to DVD source		
5		arrow buttons: navigate within menus		
6	OK	confirm entries		
7	DVB	switch to DVB source		
8	-/--	press to enter multi-digit numbers		
9	PICTURE	select the picture mode		
10	SOUND	select sound mode		
11	MUTE	switch to "mute"		
12	SLEEP	set automatic switch-off		
13	FAV	call up your list of favourites		
	FAV+/FAV-	favourite program up and down		

14	PIC Format	change display mode
15	SUBTITLE	only DTV: select subtitles
16	DISPLAY	display current mode information
17	LANGUAGE	only DTV: select audio language
18	Buttons for media function	 play/pause
		 eject DVD
		 fast backwards
		 fast forward
		 go to start of track/chapter or previous track/chapter
		 go to next track/chapter
		 pause and end playback
19	MENU	open menu; go to next-higher menu level
20	VOL +/VOL-	setting volume
21	TV/AV	select source (connected devices) (AV function)
22	DVD-SETUP REC	only DVD: call up the DVD menus only DTV: call up record menu
23	EXIT	exit menu
24	Number buttons	TV/DTV: select programme, TELETEXT: select page
25		set previous TV programme
26	NICAM/AV2	only TV mode: select the NICAM audio function
27	TV/RADIO	only DTV mode: switch between TV and radio channels
28	TEXT	only DTV: switch on, render transparent, switch off the Teletext
29	EPG	only DTV: show the Electronic Program Guide (EPG) during no-menu state

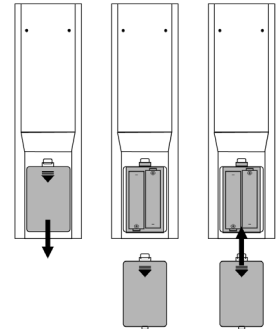
Start of operation



Before starting up please make sure that you read the "Safety instructions" section on page 3ff.

Inserting the batteries in the remote control

- ▶ Open the battery compartment cover on the back of the remote control.
- ▶ Insert two R6 (AA) 1.5-V batteries in the battery compartment of the remote control. Check the battery polarity (inscribed on the bottom of the battery compartment).
- ▶ Replace the cover.



Note

Remove the batteries if the device will not be used for long periods. The remote control can be damaged by leaking batteries.

Connect TV aerial

- ▶ To connect to the house antenna or cable system, connect a double-screened cable from the antenna socket to the LCD TV.

DVB-T mode

You will have the possibility of receiving DVB-T by means of a corresponding aerial, if it is offered at your location. An additional receiver will not be necessary to receive DVB-T channels.



Connecting a DVB-T aerial

- ▶ Plug the connector of a DVB-T aerial into the aerial socket of the device.

Connecting power supply

- ▶ Connect the power cable supplied with the device to the 100-240V ~ 50 Hz connection on the back of the unit and insert the plug into a 100-240 V ~ 50 Hz mains socket near the device.

Switching the LCD TV on and off

- ▶ Switch the power button to "I" to activate the power supply. The device switches to standby mode and the display on the front will light up red.
- ▶ To switch on the unit either press the button  on the remote control or the **POWER** button on the right-hand side of the unit. The display on the front will light up green.
- ▶ Press the button  on the remote control or the **POWER** button on the right-hand side of the unit to switch the device over to standby mode again. The unit continues to consume power in this mode.
- ▶ Press the mains switch at the back of the unit to switch it off completely.

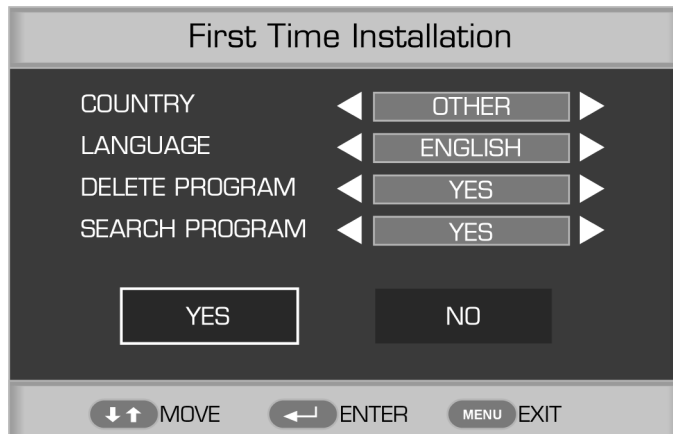
Note

If the input signal is interrupted, after some time a countdown will appear on the screen with the information that the device will be switched off automatically. The unit is in standby mode.

After switching on the unit for the first time

You will be guided through the **FIRST TIME INSTALLATION** menu after you switch the device on for the first time.

You can always access the first-time installation screen again via **FUNCTION > INSTALLATION** and go through the settings again. See also page 21.



COUNTRY	The first menu option COUNTRY is highlighted. Use the arrows ◀ ▶ to select the country in which you are currently located.
LANGUAGE	Use the up/down arrows ▼ ▲ to go to the LANGUAGE menu option. Use the direction arrows ◀ ▶ to select the language for the OSD (the menu language).
DELETE PROGRAM	All existing programmes are usually deleted during the search program option. If you don't want this to happen, set the DELETE PROGRAM option to NO .
SEARCH PROGRAM	If you want to run the search program option, set the SEARCH PROGRAM option to YES . If you only want to delete programs and don't want to search for new programmes, set this option to NO .

- ▶ Use the arrow keys to select the field **YES** and press **OK** to run the search.




- ▶ The search function may take a few minutes to complete. Wait for it to finish.

Information

Consider a DVB-T aerial if you are searching for digital channels.

Channel selection

- To select a channel, either press the buttons **CH+/-** (on the device or on the remote control) or select the channel directly by pressing the appropriate numbers. To enter a two or three-digit number press the **-/--** button twice or three times and then enter the two- or three-digit channel number.
- Press the  button to select the last channel played.

Setting the volume

- ▶ You can increase or decrease the volume by pressing the volume buttons **VOL+/-** on the remote control or on the device.
- ▶ Use the **MUTE** button to switch the volume fully off and on again.
- ▶ Use the **NICAM/A2** button to select mono or stereo playback, sound I and sound II. Sound I and sound II can only be heard when the current TV channel supports dual mode (e.g. for bilingual programmes).
- ▶ Use the **SOUND** button to switch between the following sound modes: **STANDARD, MUSIC, VOICE, THEATRE, PERSONAL**. The **PERSONAL** setting is defined under the menu option **SOUND > SOUND MODE**.

Picture settings

- ▶ Use the **PICTURE** button to switch between the following picture modes: **STANDARD, MOVIE, MILD, GAME, PERSONAL**. The **PERSONAL** setting is defined under the menu option **PICTURE > PICTURE MODE**.
- ▶ Depending on the programme, the pictures are displayed in the formats 4:3 or 16:9. Use the **PIC FORMAT** button to adjust the picture format:

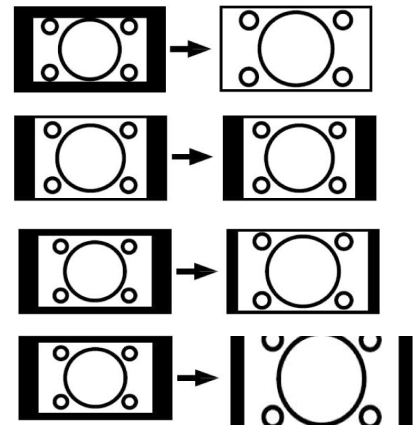
Auto: The format displayed is automatically adjusted to match the input signal.

Full: A 16:9 picture ("letterbox") is zoomed to the full screen size.

4:3: For undistorted screen display in 4:3 format.

14:9: For undistorted screen display in 14:9 format.
(only ATV)

Zoom: A picture is stretched at the top and bottom margins of the screen.
(only ATV)



Displaying information

- ▶ Press the **DISPLAY** button to display the following current settings:
 - Channel position
 - Colour system Sound system
- ▶ You can get the same information when you switch over to a different channel

Opening the favourites list

You can enter a list of your favourite channels under the menu options **TV > CHANNEL EDIT** (see page 22).

- ▶ Press **FAV** to display your list of favourite channels.
- ▶ Use the direction arrows **▼ ▲** to select a channel.
- ▶ Press **OK** to switch to this channel.
- ▶ Use the **FAV+/FAV-** buttons if you now want to change the station within the Favourites list.



Note

You compile the Favourites list by means of the **DTV > CHANNEL MANAGER** menu point in the DVB-T mode.

Selecting the source

- ▶ Use **TV/AV** to call up the source selection list. The following sources are available:
 - DTV:** DTV mode (digital antennae signal)
 - TV:** TV mode (analogue antennae signal)
 - DVD:** integrated DVD player
 - AV:** Device on AV input
 - SCART:** Device on the SCART socket
 - YPbPr:** Device on the video and audio input components
 - HDMI:** Device on HDMI input
 - PC:** Device on PC input
 - Media:** Device on USB port or card reader
- ▶ Use the direction arrows **▼ ▲** to go to the desired source.
- ▶ Confirm your selection with **OK**.

The DVD mode

The integrated DVD player, the USB connection and the memory card reader are controlled by the DVD mode.

Formats supported

The following disk or file formats are supported by your LCD-TV:

- CD
- HDCD
- DVD
- DVD-/+R
- DVD-/+RW
- USB 1.1 and 2.0
- SD memory cards
- SDHC memory cards
- MMC memory cards
- JPEG
- MP3
- WMA-compatible
- Divx-compatible

Note

The drive only plays media with a 12-cm diameter. To avoid damage to discs, do not insert media with larger or smaller diameters into the DVD slot.

Switching between TV and DVD modes

- ▶ Use **TV/AV** to call up the source selection list.
- ▶ Use the direction arrows **▼ ▲** to go to the **DVD**.
- ▶ Confirm your selection with **OK**.
- ▶ To return to TV mode, repeat this process and select the **TV** option instead of **DVD**.

Note

The DVD mode can also be called up directly with the **DVD** button on the remote.

Inserting the DVD

Note

Insert the DVD with the printed side facing towards the rear of the LCD TV.

Note

The TV must be in DVD mode before you insert the DVD into the slot (**TV/AV** button).

- ▶ Insert the DVD with the printed side facing towards the rear of the LCD TV. If the TV is in DVD mode, the DVD will be automatically recognised and drawn into the machine. The word **CLOSE** will initially be displayed, followed by **READ**. The DVD will normally play automatically.

Note

In some cases you may need to initiate play manually. To do this, press **▶II**.

Connecting a USB stick

- ▶ Push the USB stick into the USB connection on the right side of the LCD TV.

Important!

Make sure that the jack and the socket fit together precisely, to avoid damage to the contacts. The jack will only fit into the socket in one position because of its asymmetric shape.

Notes concerning USB use

- Certain types of USB devices (MP3 player) are not compatible with this LCD TV under certain circumstances.
- External USB hard drives are not supported.
- Connect a USB stick directly. Do not use any separate cable, because compatibility problems can arise.
- Pushing in and pulling out USB sticks fast is dangerous. In particular, you should not push in and pull it out fast several times in succession. Physical damage to the USB stick and, in particular, to the LCD TV itself could arise because of this.

Inserting memory cards

- ▶ Position the SD/MMC card in the side SD slot with the contacts facing backwards and the cut-off corner facing upwards.

Important!

Do not position cards with force. They will only fit into the slot in one position.

Memory cards supported

The following types of memory cards are supported:

- SD
- MMC
- MS
- MS Pro

Operating the DVD player via the LCD TV

The following functions are available on the LCD TV:

EJECT The DVD is ejected from the DVD slot

PLAY Start or stop playback

You will need to use the remote control to set additional functions or input commands.

Operating the DVD player using the remote control

The remote control has the following commands for operating the DVD player:

2	LANGUAGE	select DVD disc language	
	ZOOM	adjust picture size in DVD mode	
	SUBTITLE	select DVD disc subtitle	
	MENU	DVD play list / disc menu	
	ANGLE	select DVD picture angle	
	TITLE	DVD title	
	GOTO	Use this option to start playback at a specific point. TT 00/02 = current track/all SEND 002/021 = current chapter/all ⌚ 00:00:00 = time Enter the time digits for the playback start point and confirm with OK .	
PROGRAM	You can use this option to programme up to 16 tracks chapters or image files in a single list. Define the track using the number and direction arrows. Press PLAY to play the list and press CLEAR to delete the list.		
SLOW	This switches playback to slow motion, i.e. playback speed is slower. The following speed options are available: 1/2 - 1/7 .		
REPEAT	You can set the playback mode using this option. The following modes are available: Press 1 x REPEAT = [OFF] single playback Press 2x REPEAT = [CHAPTER] the chapter or MP3 file is repeated once Press 3 x REPEAT = [TITLE] the title or full list is repeated Press 4 x REPEAT = [REPEAT ALL] all files are repeated		
A-B	Use this option to set A-B repeat. This allows you to repeat a specific section during playback. Select the section to be repeated as follows: Press 1 x A-B = REPEAT A- specify the start point for the playback. Press A-B again = REPEAT A-B to specify the end point for the playback. The section A-B is played back automatically. Pressing A-B again = A-B CANCEL deletes A-B repeat.		
4	DVD	switch to DVD source	
5	◀ ▶ ▲ ▼	arrow buttons: navigate within menus	
6	OK	confirm entries	

18		Use these buttons to start playback if this does not happen automatically when the DVD is inserted. The word PLAY ▶ will appear. Press the play button during playback to stop playback. The word PAUSE will appear.
		eject DVD
		fast backwards
		fast forward
		go to start of track/chapter or previous track/chapter
		go to next track/chapter
		This pauses playback. Press again and STOP ■ will appear. Press ▶ again to resume playback. Press ■ twice to stop playback fully.
21	TV/AV	select source (connected devices) (AV function)
22	DVD-SETUP	only DVD: call up the DVD menus
23	EXIT	exit menu

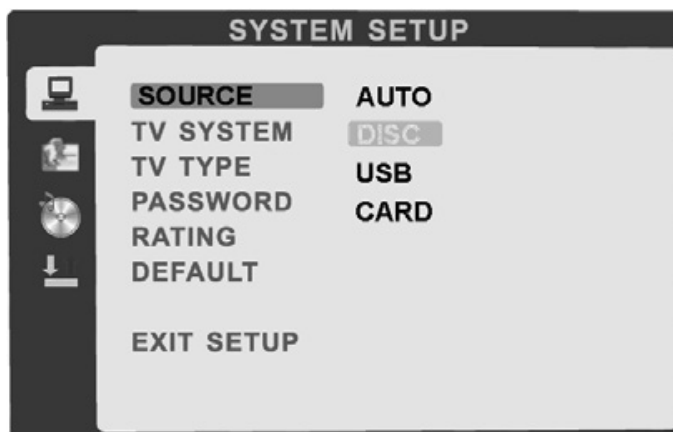
Note

Depending on the content and format of the disc, some of the buttons may have different functions or may not react at all.

DVD menu system

Invoke the DVD menu system with the button **DVD SETUP**.

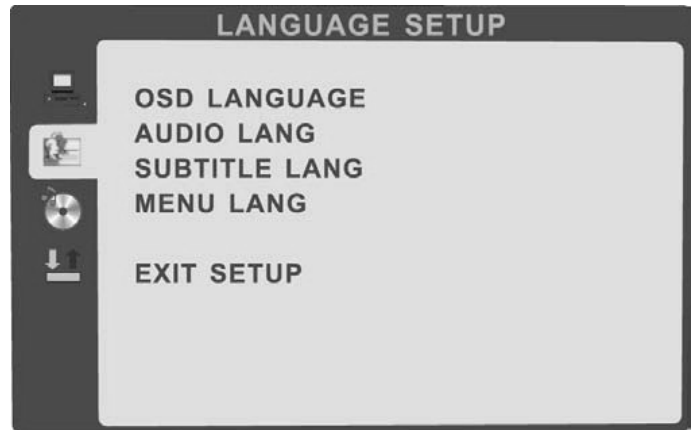
SYSTEM SETUP menu



Menu Item	Setting
SOURCE	Select the source of the information you want to play.
TV SYSTEM	TV system settings. Settings: NTSC (e.g. for the USA), PAL (for Germany, among other countries), AUTO
TY TYPE	Image format settings. Settings: 4:3 PS , 4:3 LB , 16:9
PASSWORD	Password input for child lock options. The parental control is blocked in delivery state. Unblock with 0000 . You can enter a new password as soon as the child lock option has been unblocked.
RATING	Here you can set the authorisation level for DVDs. Some DVDs and CDs are encoded with encryption signals in line with the authorisation classes established by the Motion Picture Association. The eight authorisation classes are: Suitable even for small children; (“General”) for all age groups; 3 PG : (“Parental Guidance”) parental guidance recommended; 4 PG13 : Parental Guidance Strongly Recommended); some scenes not suitable for children under 13; 5 PG-R : (“Parental Guidance Restriction”) parental guidance for young people under 17; 6 R : (“Restriction”) parental guidance strongly recommended for young people under 17; 7 NC-17 : not for young people under 17;

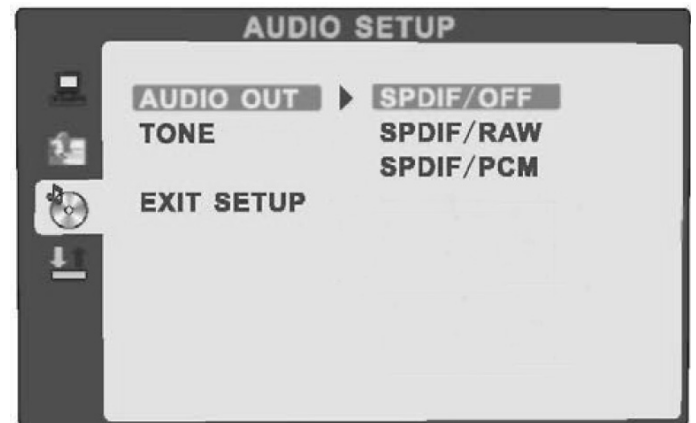
	8 ADULT: For adults only. You must enter the password to change the parental lock settings. See previous menu option.
DEFAULT	Restore all settings to delivery state here. All default settings will be deleted.
EXIT SETUP	Exit the DVD system menu.

LANGUAGE SETUP menu



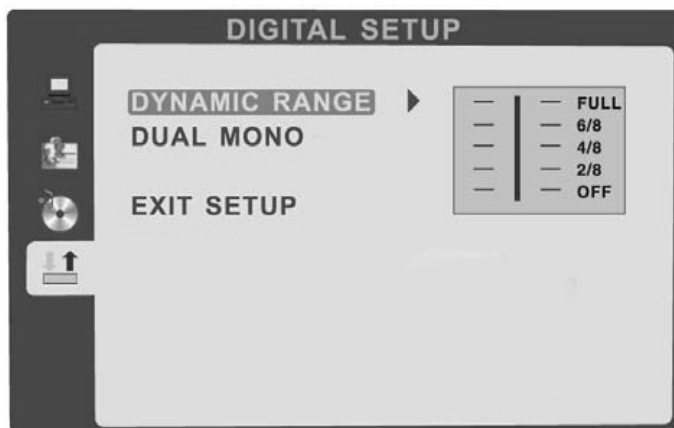
Menu Item	Setting
OSD LANGUAGE	Select the OSD menu language. It changes immediately.
AUDIO LANG	Use this option to set the DVD language track where the DVD has several language tracks.
SUBTITLE LANG	Use this option to activate the subtitles where the DVD supports this option.
MENU LANG	Use this option to set the DVD menu language where the DVD has several language menus.
EXIT SETUP	Exit the DVD system menu.

AUDIO SETUP menu



Menu Item	Setting
AUDIO OUT	Choose the audio output mode you prefer. There are 3 optional audio output modes: SPDIF/OFF , SPDIF/RAW and SPDIF/PCM (SPDIF/RAW and SPDIF/PCM are for amplifiers with digital decoder).
TONE	Set the DVD playback speed and the pitch of the tone.
EXIT SETUP	Exit the DVD system menu.

DIGITAL SETUP menu



Menu Item	Setting
DYNAMIC RANGE	Setting the various volume levels for a DVD.
DUAL MONO	Choose between 4 different audio outputs.
EXIT SETUP	Exit the DVD system menu.

Media operation

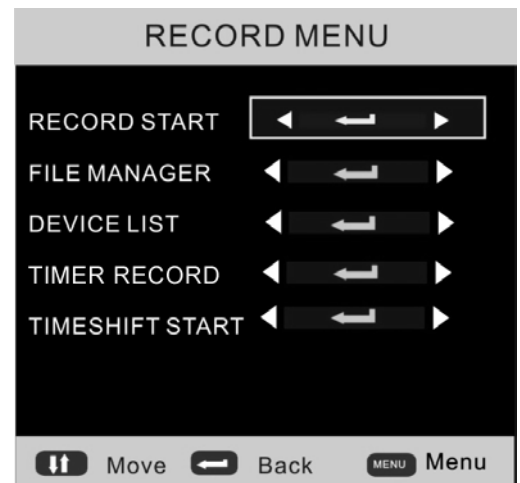
- ▶ Connect the USB device to the USB port on the left side of the TV.
- ▶ Select the **MEDIA** source with the **TV/AV** button.
- ▶ You will be able to select between **MOVIE**, **MUSIC** and **PHOTO** in the Media menu.

Recorder operation

Note!

A recording will only be possible if a storage medium is connected at the USB connection on the back of the LCD TV. You can only record in the DTV mode.

- ▶ Press **REC** button on the remote control in DTV mode to enter the **RECORD** menu.



Menu Item	Setting
RECORD START	Press OK button on the item to start recording the current playing program.
FILE MANAGER	Press OK button to enter the FILE MANAGE menu. You can play the file by press RED button; delete the file by pressing GREEN button; delete all files by pressing YELLOW button; press BLUE button to zoom the picture in or out.
DEVICE LIST	Press OK button to enter the DEVICE LIST menu to see the device information.
TIMER RECORD	Press OK button to enter the TIMER RECORD menu to set the wakeup timer. <ol style="list-style-type: none"> 1. Select the channel group from the tabel; 2. Select the Timer Mode for recording; 3. Select the wakeup channel as you like; 4. Set the date for TV wake up; 5. Set the time for TV wake up and start recording; 6. Set the time for the recording standing.
TIMESHIFT START	When you have to leave and want to watch the program, you may use the timeshift function. Press OK button on the item, select YES to enter the TIMESHIFT mode (there will a table on the left-top screen to hint). Press ▶ button to start buffering, and the picture will stop; Press ▶ button to continue, and it will move at the picture you stopped, you could use ◀◀ / ▶▶ / ▶ buttons to operate. Press ■ button and select YES to cancel timeshifting, and it will display the current program.

Videotext

Videotext is a free service broadcast by most channels and contains the latest news, weather, TV programmes, share prices, sub-titles and other information.

Using the videotext

Your remote control has special buttons for operating the video text.

- ▶ Select a TV channel that broadcasts videotext.
- ▶ Press **TV/TXT** once to display the start/index page.
- ▶ Press **TV/TXT** again to make the text transparent (the TV image can be seen in the background).
- ▶ Press **TV/TXT** again to switch back to TV mode.

Information

Open and close videotext with the **TEXT** button in the DTV mode.

Selecting a page

- ▶ Enter the number of the desired videotext page as a three digit number using the number keys. The selected page number is displayed in the top left corner of the screen. The videotext counter searches as long as it takes to find the selected page number.
- ▶ Use the direction buttons **▲ ▼** to scroll forward and backward through the videotext pages.

Colour buttons

If coloured text entries are displayed at the lower edge of the screen then you can select the contents directly by pressing the appropriately coloured button **RED, YELLOW, BLUE** and **GREEN**.

SUBPAGE

Some videotext pages have subpages. The lower edge of the screen may contain something like **1/3**, for example. The subpages are displayed one after another at an interval of about half a minute. You can access these subpages by pressing the **SUBPAGE** button. You can also scroll through the subpages using the direction buttons **◀ ▶**.

INDEX

- ▶ The **INDEX** button selects the main videotext page.

Useful videotext functions

CANCEL

If you press the **CANCEL** button in videotext mode, the videotext display will move to the background. With this you can bridge waiting times until the required page displays.

- ▶ Select the required page number in the videotext mode.
- ▶ Press on the **CANCEL** button to switch to TV mode while waiting for the videotext page. A field will appear in the top left corner with the required page number or a symbol while searching continues.
- ▶ The page number will be displayed as soon as the required page is found.
- ▶ Press the **CANCEL** button again to display the required page.

REVEAL

- ▶ Press the **REVEAL** button once to display hidden information such as the solutions to puzzles or quizzes.
- ▶ Pressing the **REVEAL** button again hides the answers.

HOLD

The videotext page that you have selected may contain more information than can fit on a single screen. In this case the information will be divided up over several subpages. The subpages are scrolled at regular time intervals.

- ▶ Press the **HOLD** button to prevent the page changing automatically. **HOLD** is displayed in the top left hand corner of the screen and prevents the page changing automatically.
- ▶ Press the **HOLD** button once more to allow the pages to change automatically.

SIZE

This function displays the videotext information in double size.

- ▶ Press the **SIZE** button to enlarge the top half of the page.
- ▶ Press the **SIZE** button again to enlarge the bottom half of the page.
- ▶ Pressing the **SIZE** button again displays the videotext in normal size.

Basic OSD menu settings

You can customise certain functions of the OSD (On-Screen Display) menu.

Navigating in the menu

- ▶ Press the **MENU** button to activate the OSD.
The available options are displayed on the screen.
- ▶ You can use the direction keys ▲ ▼ to select the options from the main menu.
- ▶ Use ▶ to switch over to the menu entries.
- ▶ You can use the direction keys ▲ ▼ to select the options from the any of the menus.
Press **MENU** to return to the main menu.
- ▶ Use the direction button ▶ to access a sub-menu (not every menu has a sub-menu option).
Press **MENU** to return to the next-higher menu.
- ▶ Use the direction buttons ◀ ▶ to enter a desired value or make another selection.
- ▶ Press **MENU** to close the menu and also confirm your selection.

Please remember that the menu will close automatically after a couple of seconds if you don't press a button (setting the **OSD TIMER** in the **FUNCTION** menu, see page 21).

You can select the following main menus:

- Menu **PICTURE**
- Menu **SOUND**
- Menu **FUNCTION**
- Menu **TV/DTV/HDMI/YPBPR/PC**

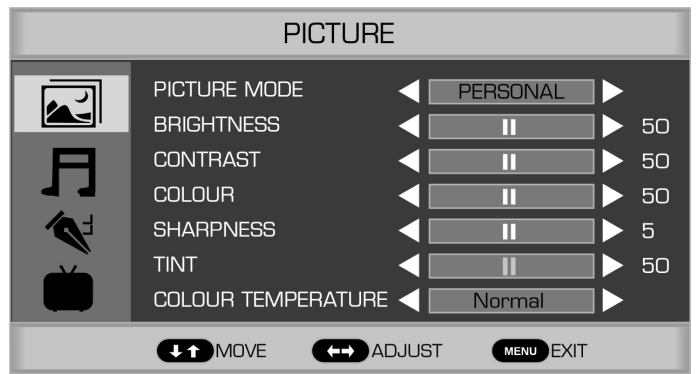
Note

Technical changes to the appliance means the menus described here may differ from the menus actually displayed on the screen.

Note

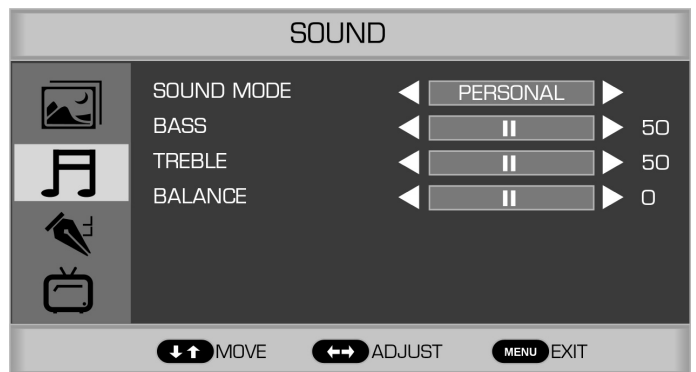
Not all menus are available, depending on the source you selected. Switch to a different source to access all available menus.

PICTURE menu



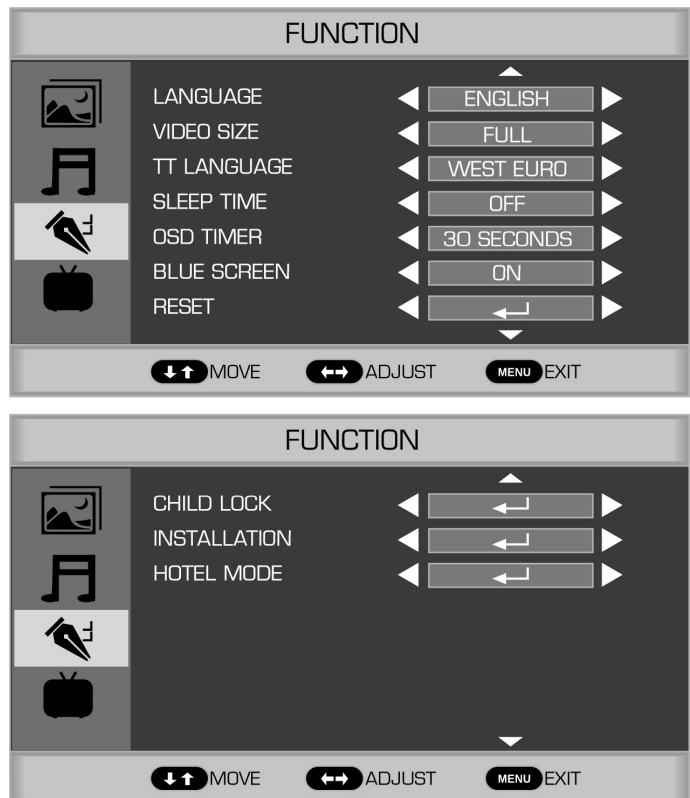
Menu Item	Setting
PICTURE MODE	Select picture mode: STANDARD, MOVIE, MILD, GAME, PERSONAL . This function is under the PICTURE button. You can customise the following four parameters under the PERSONAL setting. The other parameters are defined and fixed.
BRIGHTNESS	Increase or decrease brightness (on a scale of 0 – 100).
CONTRAST	Increase or decrease contrast (on a scale of 0 – 100).
COLOUR	Increase or decrease colour saturation (on a scale of 0 – 100).
SHARPNESS	Increase or decrease sharpness (on a scale of 0 – 10).
TINT	Increase or decrease colour tint (on a scale of 0 – 100). This option is only available with NTSC TV colour system.
COLOUR TEMPERATURE	Select colour temperature: STANDARD, WARM and COOL . Only in PC mode.


SOUND menu



Menu Item	Setting
SOUND MODE	Select sound mode STANDARD, MUSIC, VOICE, THEATRE, PERSONAL . This function is under the SOUND button. You can customise the following two parameters under the PERSONAL setting. The other parameter is defined and fixed.
BASS	Increase or decrease bass (on a scale of 0 – 100).
TREBLE	Increase or decrease treble (on a scale of 0 – 100).
BALANCE	Set the balance between the left and right speakers.

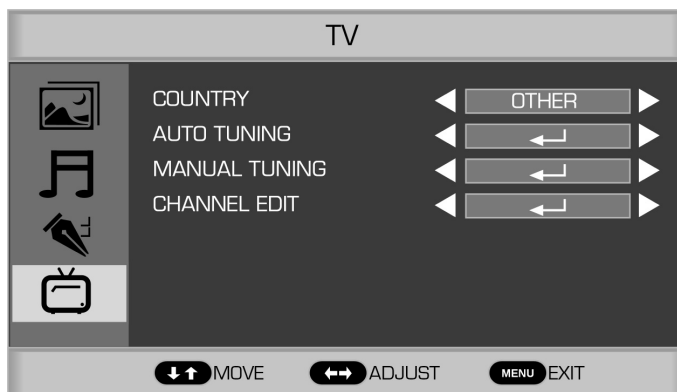
FUNCTION menu




Menu Item	Setting
LANGUAGE	Select the OSD menu language. It changes immediately.
VIDEO SIZE	Use the PIC FORMAT button to select the video size (see page 13).
TT LANGUAGE	Video text language. Set a different video text language to West Euro if you want to receive a channel from a region with a different language.
SLEEP TIME	You can set a time after which the appliance switches itself off (15 to 120 minutes).
OSD TIMER	You can select a time after which the OSD menu automatically disappears (5 to 60 seconds).
BLUE SCREEN	If the LCD TV is not receiving a signal the screen will turn blue rather than show “snow” or a black background.
RESET	Press OK or ▶ , then select the answer YES to the next question and then press OK . All settings (not the password) will be restored to the delivery state.  The password will not be reset!

CHILD LOCK	A sub-menu will appear.		
	CHILD LOCK	None of the channels that have been blocked (see TV menu) can be selected if the setting is to ON .	
	KEY LOCKED	All buttons on the device will be blocked if the setting is ON .	
	If one of the options CHILD LOCK or KEY LOCKED are set to ON , the CHILD LOCK menu can only be accessed by entering the password. The INSTALLATION menu is inactive if one of the options is ON .		
	CHANGE CODE	An input field for entering the passwords will appear.	
		ENTER OLD PASSWORD	Use the keypad to enter the existing password. Delivery state: 0000. "R" for "right" or "W" for "wrong" will appear.
		ENTER NEW PASSWORD	Enter the new 4-digit password.
		ENTER PASSWORD AGAIN	Enter the new password again. The appropriate message will appear.
		If you forget the password you will have to go through the initial settings procedure again to restore the delivery state.	
INSTALLATION	You can access the menu for the initial installation. Select Yes and press OK and go through the initial installation. The settings are described from page 12 onwards.		
HOTEL MODE	A sub-menu will appear after entering the password.		
	HOTEL LOCK	Turn on/off the Hotel Lock function, the settings below will be effectual when you select ON .	
	SOURCE LOCK	The TV cannot program the signals from the sources you select ON .	
	DEFAULT SOURCE	Select the default source.	
	DEFAULT PROG	Select the default program (you could operate only when you select TV as your DEFAULT SOURCE). Note: The TV will display the program you select (DEFAULT SOURCE and DEFAULT PROG) when you turn on the TV.	
	MAX VOLUME	Setting the max volume of the TV.	
	CLEAR LOCK	Clear all the setting above.	

TV menu in TV-mode



Menu Item	Setting
COUNTRY	Select the country in which you are currently located.
AUTO TUNING	Perform the search here. Wait for the search to finish. The search function may take a few minutes to complete. Press OK to interrupt the search.
MANUAL TUNING	You can programme the channels manually here.
	CHANNEL Select the number of the channel you want to address.
	SOUND SYSTEM BG, I, DK. The sound system for Germany is BG .
	COLOUR SYSTEM PAL, Secam, Autom. The colour system for Germany is PAL .
	AFT "Automatic Fine Tuning". Select On and press OK if you want to fine-tune the settings.
	MANUAL TUNING You will see the frequency of the current channel. You can change the frequency with ◀ ▶ in increments of 5 Mhz. You can also enter the frequency using the number pad.
CHANNEL EDIT	You will see the current saved channel here. Each channel can be customised as follows:
	FAV Select the channel that you would like to include in your list of favourites and press the GREEN button (SLOW). Use the FAV button to open your list of favourites (see page 14).
	SKIP Select the channel that you want to skip when scrolling through the channels using the P-/+ buttons then press the YELLOW (REPEAT) button. You can still select this channel via the numeric pad.
	LOCK Select the channel you want to block and then press the BLUE button (A-B).  To activate the block, set CHILD LOCK to On in the FUNCTION > CHILD LOCK menu option.
	MOVE Press the direction key ▶ to move a channel to a different position. Move the channel to the desired position using the direction keys ▲ ▼ and press OK . The other channels will be rearranged accordingly.

Tuning the video recorder manually

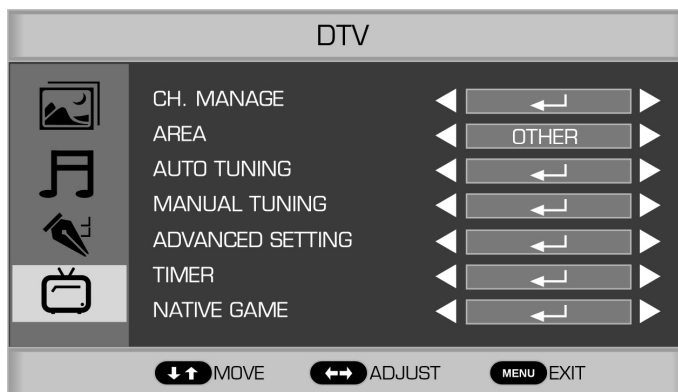
You can use **MANUAL TUNING**, for example, to tune a video recorder to the LCD TV.

Connect the TV and the video recorder via the antenna cable (see the instructions for connecting the video recorder, page 28) and set the video recorder to the test signal.

Perform a manual channel search with the LCD TV.

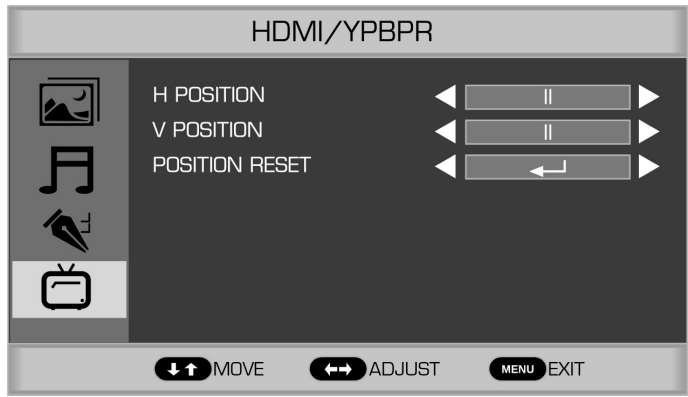
When the test signal is located, save the test signal on channel 0. This channel is not used by any of the TV channels.

DTV menu in DTV-mode



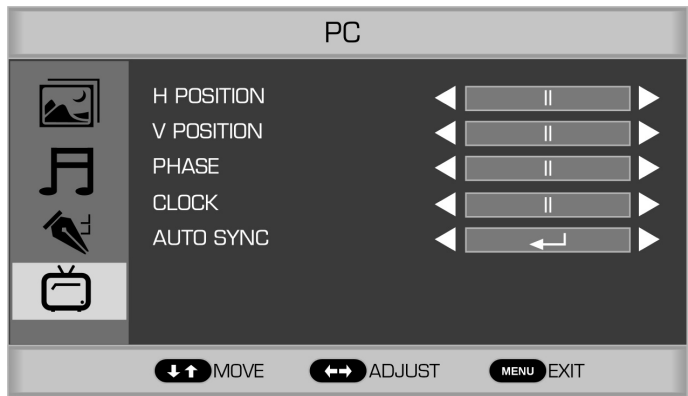
Menu Item	Setting
CH. MANAGE	Allows you to lock channels, delete channels, add/remove channel skip, move channel position and rename channels.
AREA	Select the suitable area
AUTO TUNING	Perform the search here. Wait for the search to finish. The search function may take a few minutes to complete. Press OK to interrupt the search.
MANUAL TUNING	You can programme the channels manually here.
ADVANCED SETTINGS	A sub-menu will appear.
	AUDIO Select the audio language.
	SUBTITLE Select the subtitle language
	RATING Enter the password to enter the RATING menu. You could select Parental Rating or turn off the function
	CI Pay per view services require a “smartcard” to be inserted into the TV. If you subscribe to a pay per view service the provider will issue you with a ‘CAM’ and a “smartcard”. The CAM can then be inserted into the Common Interface port.
TIMER	Lets manually set recording by date, time and number of recordings.
NATIVE GAME	Select one of the available games to play.

HDMI / YPBPR menu in HDMI-mode or YPBPR-mode



Menu Item	Setting
H POSITION	Adjust the horizontal position of the picture.
V POSITION	Adjust the vertical position of the picture.
POSITION RESET	Reset the settings above.

PC menu in PC-mode



Menu Item	Setting
H POSITION	Adjust the horizontal position of the picture.
V POSITION	Adjust the vertical position of the picture.
PHASE	If the PC picture is not clear, you can adjust the picture signal to suit the LCD TV pixels. This will result in a clear image with an even, sharp display.
CLOCK	With this setting the picture signal is synchronised to match with the monitor's pixel rate. This corrects errors that can appear as vertical stripes in pixel-dense images (like tables or text with small fonts).
AUTO SYNC	If the picture has shifted, you can select the AUTO SYNC option and press OK to move it back to the middle of the screen. This function has to be performed with a full picture, otherwise the settings will not match.

Examples of connections

Note

Before connecting another device with its own power supply, switch the LCD TV off. When the device is connected, switch it on.

The connections are described in the chapter Overview, starting from page 7.

Connecting headphones

Connect the headphones to the headphone connection. The main loudspeakers will remain on when the headphones are connected. Regulate the volume level of the headphones by means of the volume keys and the Switch Off Sound key.



Warning!

In the first instance set the volume to a value at the lowest end of the scale before you put on the headphones. Then select a comfortable volume. Excessive volume can damage your hearing. Using this appliance at full volume for extended periods of time may cause damage to the hearing capacity of the listener.

Digital amplifier connection by a coaxial connection

You will have the possibility of reproducing the audio signal of your LCD TV through a digital amplifier by means of the SPDIF Coax.OUT connection.

Connect a coaxial cable to the SPDIF Coax.OUT connection on the LCD TV and the corresponding input on the amplifier to do this.

Note

This feature will be supported only in DVD mode.

Connecting the DVD player

There are a number of options for connecting a DVD player.

1. With a SCART cable

- ▶ Connect a DVD player to the SCART socket using a SCART cable.

2. With a stereo cinch cable and a video cinch

- ▶ Connect a video cinch cable (yellow jack) to the video input on the LCD TV and the video output on the external device.
- ▶ Connect a stereo cinch cable (red and white jack) to the audio input on the LCD TV and the video outputs on the external device.

3. With a component video cable (3 x cinch)

- ▶ If the DVD player has YUV outputs (Y Pb Pr), we recommend connecting the player to the Y-Pb-Pr inputs on the LCD TV using a component cable (cinch cable green/blue/red)
- ▶ Connect a stereo cinch cable (red and white jacks) to the AUDIO L – R inputs to transmit audio.

4. With a HDMI cable

- ▶ If your device has a HDMI output, connect a HDMI cable (not supplied) to the HDMI input of the LCD TV and to the HDMI output of the external device.

Connecting a video recorder

- ▶ Connect an antenna cable between the antenna socket on the LCD TV and the output on the video recorder.
- ▶ Connect an additional antenna cable between the antenna input on the video recorder and the antenna socket in the wall.

You can also use a SCART cable to connect the LCD TV and the video recorder. This is recommended for high-quality picture and sound quality. If you wish to transfer stereo sound, you will need a SCART connection.

- ▶ Connect the SCART cable to the SCART socket on the LCD TV.
- ▶ Connect the other end of the SCART cable to the SCART OUT socket on the video recorder.

Connecting a DVD recorder

- ▶ Use a SCART cable to connect the DVD recorder to the SCART socket on the LCD TV.
- ▶ Connect the other end of the SCART cable to the SCART OUT socket on the DVD recorder.
- ▶ Connect an antenna cable to the antenna socket on the LCD TV and the antenna output on the DVD recorder.
- ▶ Connect an additional antenna cable between the antenna input on the DVD recorder and the antenna socket in the wall.

Alternative

- ▶ If the DVD recorder has YUV outputs (Y Pb Pr), we recommend connecting the recorder to the Y-Pb-Pr component inputs on the LCD TV via a component cable (cinch cable green/red/blue).
- ▶ Connect a stereo cinch cable (red and white jacks) to the AUDIO L – R inputs for sound transmission.

Alternative

- ▶ If the DVD recorder has a HDMI output, connect a HDMI cable (not included) between the HDMI input on the LCD TV and the HDMI output on the external appliance.

Connecting a receiver (SAT, DVB-T, decoder, etc.)

There are different options for connecting a receiver (e.g. SAT receiver, DVB-T receiver, decoder, set-top box) to your LCD TV.

1. With a SCART cable

- ▶ Use a SCART cable to connect a receiver to the SCART socket.

2. With a stereo cinch cable and a video cinch

- ▶ Connect a video cinch cable (yellow jack) between the video input on the LCD TV and the video output on the external appliance.
- ▶ Connect a stereo-cinch cable (red and white jacks) between the audio inputs on the LCD TV and the audio outputs on the external appliance.

3. With a component video cable (3xcinch)

- ▶ If the device has YUV outputs (Y Pb Pr), we recommend connecting the device to the Y-Pb-Pr component inputs on the LCD TV via a component cable (cinch cable green/red/blue).
- ▶ Connect a stereo cinch cable (red and white plugs) to the AUDIO L – R inputs for sound transmission.

4. With a HDMI cable

- ▶ If the external device has a HDMI output, connect a HDMI cable (not included) between the HDMI input on the LCD TV and the HDMI output on the external device.

Connecting a DVD recorder or video recorder and SAT receiver

If you want to connect a DVD recorder or video recorder and a SAT receiver at the same time, you can do so as follows:

- ▶ Connect the receiver as described above.
- ▶ Now connect the receiver using a SCART cable plugged into the **SCART output** on the DVD recorder and the SCART input on the receiver.
- ▶ Connect an antenna cable between the antenna socket on the LCD TV and the antenna output on the recorder.
- ▶ Connect an additional antenna cable between the antenna input on the DVD recorder and the antenna output on the SAT receiver.
- ▶ Connect the SAT receiver to the LNB on the parabolic antenna.

Connecting a camcorder

With a stereo cinch cable and a video cinch

- ▶ To play back images and sound on your LCD TV connect the camcorder to the AUDIO-IN sockets and VIDEO-IN sockets on the LCD TV.

Device with HDMI or DVI output

HDMI ("High Definition Multimedia Interface") in consumer electronics is the only interface that transmits audio and video data simultaneously. It handles all image and sound formats currently in use, including HDTV (High Definition TV), which means it can also display resolutions of 1080i without any loss in quality.

Many consumer electronic devices, e.g. DVD players, are now equipped with HDMI outputs.

Connecting an external device with a HDMI output

- ▶ Switch both devices off.
- ▶ Connect a HDMI cable (monitor cable; not supplied) to the HDMI input of the LCD TV and to the HDMI output of the external device.
- ▶ Switch the LCD TV on when the HDMI device is connected.
- ▶ Switch on the external HDMI playback device.

Connecting an external device with a DVI output

If the external device has a DVI output then you can also connect it to the HDMI input (HDMI is downwards compatible to DVI – "Digital Visual Interface"). For this you will need a HDMI-DVI adapter. The DVI output does not transmit sound so you will have to connect an audio cable in addition.

Connect a stereo cinch cable with 3.5-mm jacks to the VGA AUDIO-IN socket to transmit sound.

Connecting a PC

The LCD TV is connected to your PC or notebook like a monitor or additional monitor. The picture on your notebook or PC is then transmitted to the LCD TV.

Connect the LCD TV to the PC as follows:

- ▶ Switch both devices off.
- ▶ Connect a VGA cable (monitor cable; not supplied) to the VGA input of the LCD TV and to the graphic card output of the PC or notebook.
- ▶ Tighten up the screws of the monitor cable with your fingers, so that the plug is correctly seated in the socket.
- ▶ If you want to transmit a sound signal, connect an audio cable from the PC AUDIO-IN socket and PC/notebook Audio output
- ▶ First switch on the LCD TV.
- ▶ Then switch on the PC/notebook.

If you use the LCD TV as a second monitor for your PC you might have to change the display properties of your operating system. To do this please read the operating instructions of your PC/notebook to find out the operational requirements if more than one monitor is used.

Troubleshooting

Malfunctions can sometimes have quite trivial causes, but on other occasions they are the result of defective components. We would like to give you a few options for rectifying your problem. If these tips don't do the trick, then we'll be more than pleased to help you out. Just give us a call! You'll find the phone numbers on the back inside cover, under the warranty conditions.

Fault	Solution
There is no picture and no sound.	<ul style="list-style-type: none"> • Check if the power cable is inserted properly into the socket and connected properly to the device. • Check if the signal receiver is set to TV. • Check to ensure the switch on the power cable is on.
There is no picture. There is no AV picture.	<ul style="list-style-type: none"> • Check to ensure the contrast and brightness settings are correct. • Check if all external devices have been connected properly. • Check to ensure you have selected the correct AV source.
There is no sound.	<ul style="list-style-type: none"> • Ensure that the volume has not been set to the minimum level. • Ensure the mute setting is not active.
There is no picture and no sound. I can hear noise, though.	<ul style="list-style-type: none"> • The reception might be poor. Check if the antenna is connected properly.
The picture is not clear.	<ul style="list-style-type: none"> • The reception might be poor. • Check if the antenna is connected properly.
The picture is too bright or too dark.	<ul style="list-style-type: none"> • Check the settings for contrast and brightness.
The picture is not sharp.	<ul style="list-style-type: none"> • The reception might be poor. • Check if the antenna is connected properly. • Check the settings for sharpness and noise reduction in the PICTURE menu.
There is a double/triple picture.	<ul style="list-style-type: none"> • Check if the antenna is aligned properly. • Waves might be reflected off buildings or mountains.
The picture is pixellated.	<ul style="list-style-type: none"> • There might be interference from cars, trains, power lines, neon lights, etc. • There might be interference between the antenna and power cables. Position the cables further apart.
There are stripes on the display or the colours are faded.	<ul style="list-style-type: none"> • Is there interference from another device? • Transmission antennae on radio stations, ham radios and portable phones can also cause interference. • Operate the appliance as far as possible from the device that might be causing the interference.
The buttons on the device are not working properly.	<ul style="list-style-type: none"> • The child lock might be on.
The remote control does not work.	<ul style="list-style-type: none"> • Check if the batteries are fully charged and have been inserted in the right direction. • Ensure the sensor field is not exposed to strong light. • Switch off the device at the power cable and then on again. • Check if the TV function is active by pressing the TV button on the remote control.

Do you need more help?

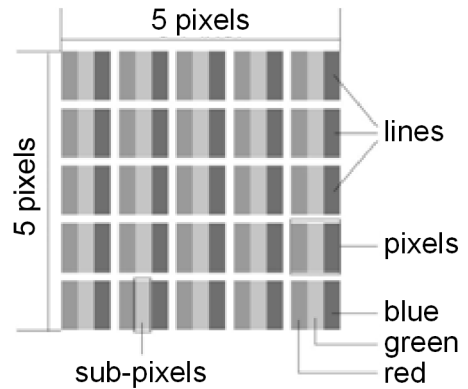
If the suggestions in the previous section did not rectify your problem please contact us. The following information would help us:

- What external devices are connected?
- What messages appear on the screen?
- When operating the device, at which step did the problem occur?
- If you have a PC connected to the device:
 - How is your computer configured?
 - What software were you using when the problem occurred?
- What steps have you already taken to try and rectify the problem?
- Please provide your customer number if you have one.

LCD TV pixel faults

Despite the most modern production methods, the highly complex technology involved in producing this type of device means there may be individual or multiple pixel drop-outs (dead pixels). This is rare, however.

For active matrix TFTs with a resolution of **1440 x 900 pixels**, which are each made up of three sub-pixels (red, green, blue), there are a total of **approx. 3,9 million** control elements in use. Occasionally one or more pixels can fail or become incorrectly controlled because of this very high number of transistors and the associated extremely complex manufacturing processes used.



Description		Accepted number
Bright sub-pixel	1 sub-pixel	≤ 2
	Two adjacent (horizontal/vertical)	≤ 1
Separation	Minimum distance between bright and dark sub-pixels	≥ 15 mm
Dark sub-pixel	Single	≤ 3
	2 adjacent	≤ 1
Separation	Minimum distance between bright and dark sub-pixels	≥ 15 mm
Total number of bright and dark sub-pixels		≤ 10

The table describes the maximum number of pixel failures allowed on the screen, without a warranty claim arising. A warranty claim can be made in some cases if the above number of defects in a category is exceeded.

Cleaning

You can increase the lifespan of your device as follows:

Caution!

Always unplug the unit and disconnect all cables before cleaning.

- Do not use solvents, corrosive or aerosol detergent to clean.
- Clean the screen with a soft, lint-free cloth.
- Ensure that no water droplets remain on the LCD TV. Water droplets may result in permanent discolouration.
- Do not place the screen in strong sunlight or near ultraviolet light.
- Store the packaging material in a safe place; only use this box to transport the LCD TV.

Caution!

None of the parts inside the housing require cleaning or maintenance.

Disposal

Packaging



Your appliance has been packaged to protect it against transportation damage. The packaging is made of environmentally friendly material which can be recycled.

Appliance



At the end of its life, the appliance should not be disposed of in household rubbish. Enquire about the options for environmentally friendly disposal.

Batteries



Do not dispose of used batteries in the household rubbish! They should be deposited at a collection point for used batteries.

Technical specifications

Nominal voltage	100-240 V ~ 50 Hz
Screen size:	19" (approx. 48 cm) TFT; 16:10 display
Power consumption:	60 Watt
Power consumption on standby:	< 1 W
Physical resolution:	1440 x 900
TV system:	PAL, SECAM, B/G, D/K, L/L'
Channels:	VHF (channels I/III) UHF (BAND U) HYPERBAND CABLE TV (S1-S20) / (S21-S41)
Audio:	Stereo/Nicam
Analogue programme positions:	200
Digital programme positions:	550
Antenna input:	75 Ohm
Connections:	Antenna connection (analogue/DVB-T), VGA (15 Pin D-Sub), HDMI with HDCP-decoding, SCART, Composite Video in (1 Cinch), YPbPr (YUV; 3 Cinch), PC AUDIO IN (3.5 mm stereo jacks), Stereo Audio in for composite video/YUV (2 cinch), Headphones jack (3.5 mm jack)
Drives:	USB, SD/MMC memory card, disk, Common Interface
Compatible disk formats:	DVD+R/RW, DVD-R/RW, CD-R, CD-RW
Laser power of the DVD player:	Class 1 laser

Pay attention to the  imprint, if you use audio CDs.

Please pay attention to the following:

Today, there are many partly non-standardized CD recording processes and copy protection processes, and different blank CD-R and CD-RW CDs. Reading errors and delays can arise for this reason. This is not a defect in the device.

Dimensions/ weight with stand: Approx. 460 x 380 x 205 mm (W x H x D) / 5.1 Kg

Dimensions/ weight without stand: Approx. 460 x 365 x 84 mm (W x H x D) / 4.9 Kg

Remote control

Transmission type:	Infrared
LED classification:	1
Battery type:	2 x 1.5V AA R6/LR6



Please note:

If, as a result of an unforeseeable combination of operating steps, faulty data transfer or electrostatic discharge the LCD TV can no longer be operated, always unplug the power cable from the mains and then reconnect and switch on the device.