Contents

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.
- 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 220-240 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.

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 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:
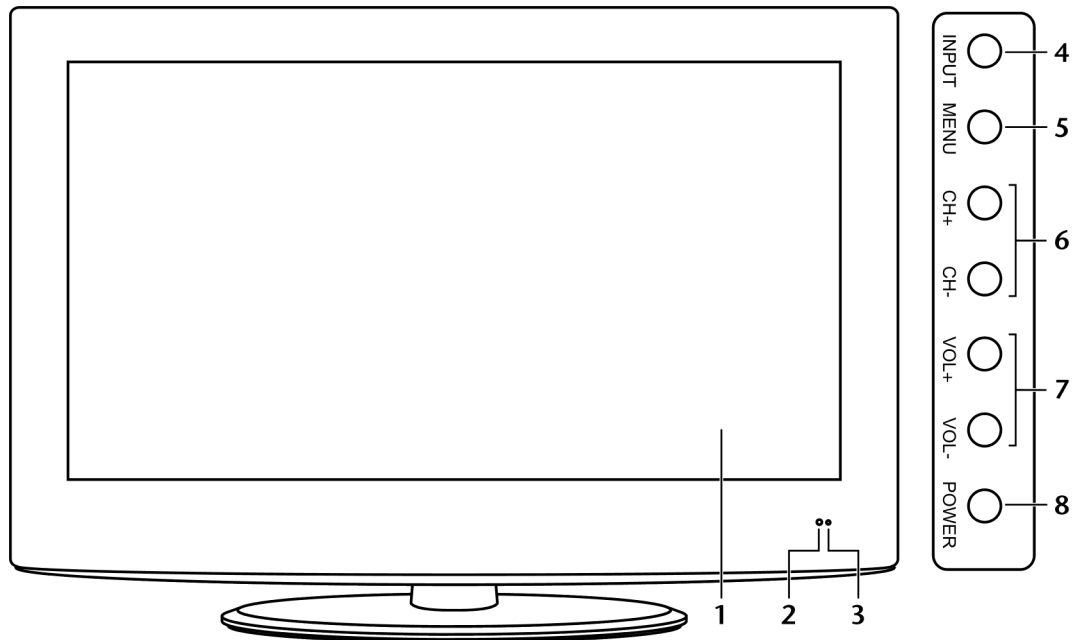
With the product that you purchased you receive:

- 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 right-hand side

1. TFT display
2. Infrared sensor: reception field for the infrared TV signals.
3. ON indicator: red when the appliance is in standby mode; green when the appliance is switched on.
4. **INPUT**   Change the input source
5. **MENU**   Call up the on-screen menu
6. **CH+ / CH–**   Select a channel or navigate through the menu ▼ ▲
7. **VOL+/VOL–**   Adjust the volume or navigate through the menu ◄ ►
8. **POWER**   STANDBY, i.e. switch off the LCD temporarily

Rear and connections on the left-hand side
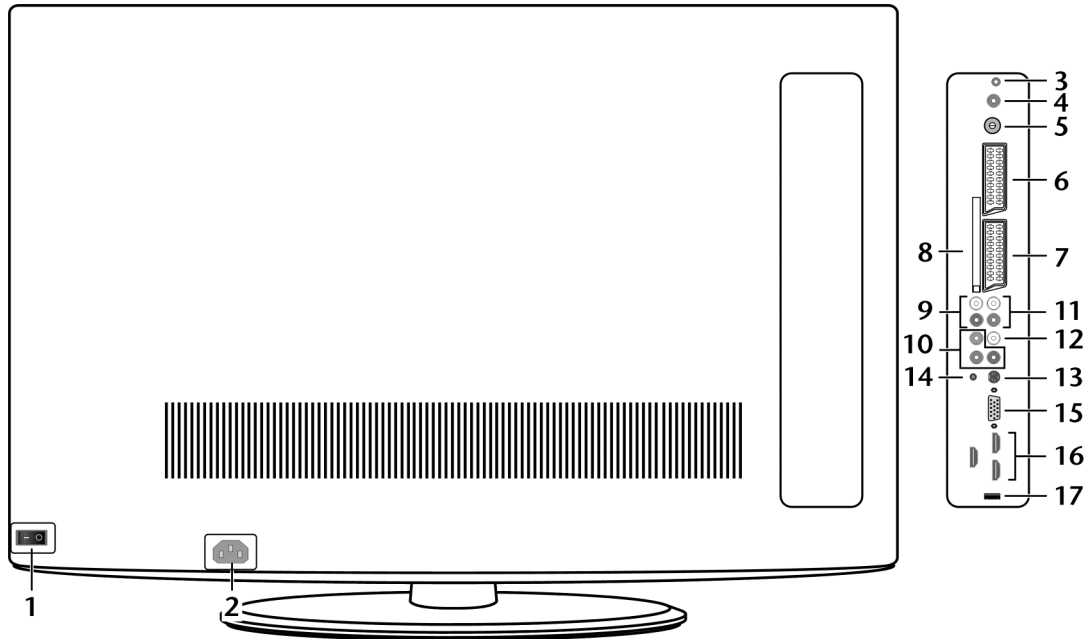
1. Mains switch
2. Mains connection
3. **Headphone out**   Ear/headphone connection: To connect a headphone with 3.5 mm jack plug
4. **COAX**   Digital coaxial output
5. **RF**   Connection using an aerial
6. **SCART 2**   SCART socket
7. **SCART 1**   SCART socket
8. **Common Interface**   CI Slot
9. **R-in / L-in**   Audio inputs (red/white) for **Y Pb Pr**
10. **Y Pb Pr**   Video inputs (green/blue/red) for connecting devices with component output
11. **R-in / L-in**   Audio inputs (red/white) for **Video** or **S-Video**
12. **Video**   Video input: to connect a device via composite
13. **S-Video**   Video input: to connect a device via S-Video
14. **PC IN**   Audio input for PC
15. **VGA**   VGA connection: to connect a PC
16. **HDMI 1-3**   HDMI connection: to connect a device with an HDMI output.
17. **USB**   USB connection: to connect USB sticks

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
3	**CH +/ CH–**	select the TV programme	
4	**MENU**	open menu; go to next-higher menu level	
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**	only DTV: call up your list of favourites	
	FAV+/FAV–	only DTV: 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
		◀◀	fast backwards
		▶▶	fast forward
		�i◀◀	go to start of track/chapter or previous track/chapter
		▶▶i	go to next track/chapter
		■	pause and end playback
19	**VOL +/VOL–**	setting volume	
20	**INPUT**	select source (connected devices) (AV function)	
21	**REC**	only DTV: press to start record the program	
22	**EXIT**	exit menu	
23	Number buttons	TV/DTV: select programme, TELETEXT: select page	
24	⟲	set previous TV programme	

25	**NICAM/AV2**	select the NICAM audio function
26	**TV/RADIO**	only DTV mode: switch between TV and radio channels
27	**TEXT**	only DTV: switch on, render transparent, switch off the Teletext
28	**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 220-240V ~ 50 Hz connection on the back of the unit and insert the plug into a 220-240 V ~ 50 Hz mains socket near the device.

Switching the LCD TV on and off

▶ Switch the power button to "I" to active 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 **Functions > First Time Installation** and go through the settings again. See also page 21.

▸ Select a language with the directional buttons and press **OK**.

First Time Installation
< Setup 1>
Language: **English**
Italian
Spanish
Portuguese
French
■ Next Page
▲▼ Move   EXIT Exit

▸ Select the country required with the directional buttons. The country setting will have an influence on the sequence in which the channels are stored. Press **OK**.

First Time Installation
< Setup 2 >
Country: **Germany**
UK
Italy
France
Spain
■ Previous Page   ■ Next Page
▲▼ Move   EXIT Exit

▸ Select **Start Auto Tune** with the directional buttons, if necessary, and press **OK**. The search for channels will start. It will search for the digital channels first and then the analog channels. Wait for it to finish. You can interrupt the search early with the **EXIT** button.

First Time Installation
< Setup 3 >
Start Auto Tune
■ Previous Page   ■ OK
OK Start Tuning   EXIT Exit
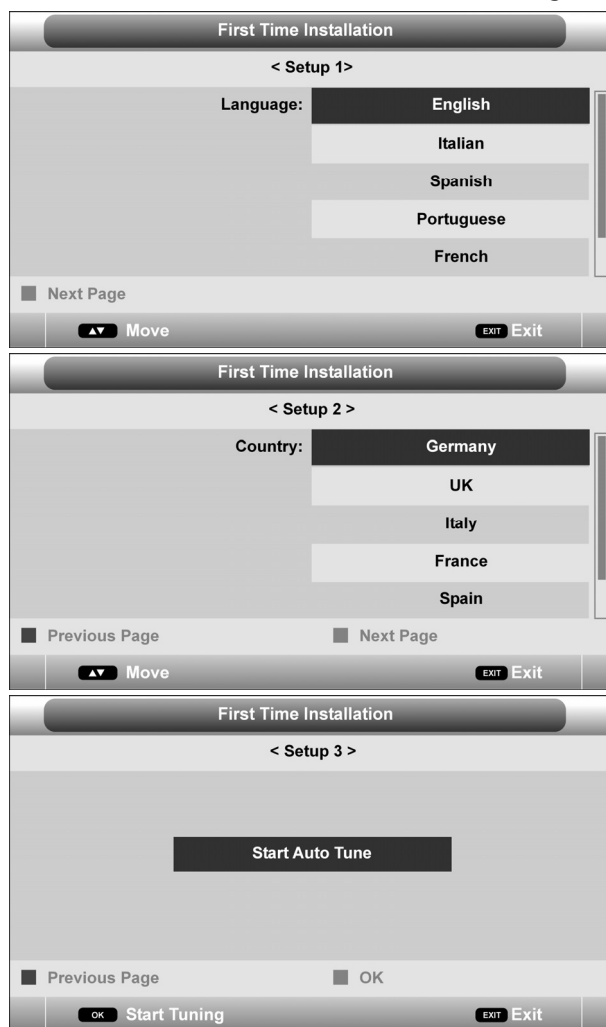
Information

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**, **Personal**, **Voice**, **Music**, **Theatre**. 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**, **Personal**, **Movie**, **Sport**, **Mild**, **Game**. 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.

16:9: For undistorted screen display in 16:9 format.

14:9: For undistorted screen display in 14:9 format.

Zoom 1: A picture is stretched at the top and bottom margins of the screen.

Zoom 2: Expanded zoom stage from **Zoom1**. The picture will be stretched further to the left and the right additionally.
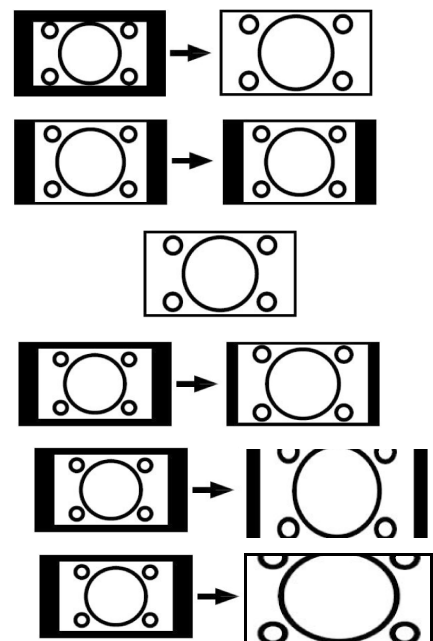
Displaying information

▶ 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 **Channel > Favorite Manager** (see page 22).

▸ Press **FAV** to display your list of favourite channels.

▸ Use the direction arrows ◂ ▸ to select a favourite list.

▸ Use the direction arrows ▾ ▴ to select a channel.

▸ Press **OK** to switch to this channel.

Selecting the source

▸ Use **INPUT** to call up the source selection list. The following sources are available:

TV:	TV mode (analogue antennae signal)
DTV:	DTV mode (digital antennae signal)
Media:	Device on USB port
AV:	Device on AV input
S-Video:	Device on the S-video socket
PC:	Device on PC input
YPBPR:	Device on the video and audio input components
SCART 1:	Device on the SCART 1 socket
SCART 2:	Device on the SCART 2 socket
HDMI 1:	Device on HDMI 1 input
HDMI 2:	Device on HDMI 2 input
HDMI 3:	Device on HDMI 3 input

▸ Use the direction arrows ▾ ▴ to go to the desired source.

▸ Confirm your selection with **OK**.

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 **Setup** menu, see page 21).

You can select the following main menus:

- Menu **Picture**
- Menu **Sound**
- Menu **Channel**
- Menu **Feature**
- Menu **Setup**

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

Picture	
Picture Mode	Standard
Brightness	50
Contrast	50
Sharpness	5
Colour	50
Tint	50
Colour Temperature	Standard
Noise Reduction	High

Picture · Sound · Channel · Feature · Setup

▲▼◄► Move   OK Enter   MENU Return   EXIT Exit
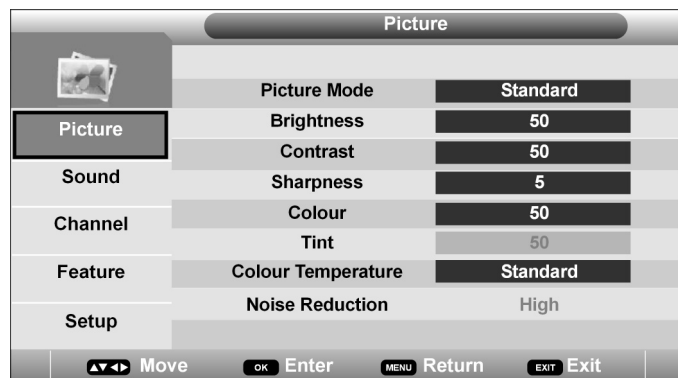
Menu Item	Setting
Picture Mode	Select picture mode: **Standard**, **Personal**, **Movie**, **Sport**, **Mild**, **Game**. This function is under the **PICTURE** button. You can customise the following four parameters under the **Personal** setting. The other parameters are defined and fixed.
Brightness	Increase or decrease brightness (on a scale of 0 – 100).
Contrast	Increase or decrease contrast (on a scale of 0 – 100).
Sharpness	Increase or decrease sharpness (on a scale of 0 – 10).
Colour	Increase or decrease colour saturation (on a scale of 0 – 100).
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**.
Noise Reduction	You can reduce noise in the image with this function and improve the image quality if the signal is weak. Select from **Off**, **Low**, **Middle** or **High**.

Sound menu

Sound	
Sound Mode	Standard
Bass	50
Treble	50
Balance	0
AVL	Off
SPDIF	Off

Picture · Sound · Channel · Feature · Setup

▲▼◄► Move   OK Enter   MENU Return   EXIT Exit
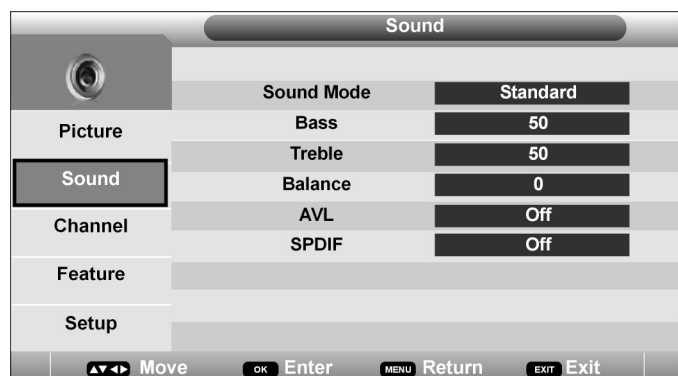
Menu Item	Setting
Sound Mode	Select sound mode **Standard**, **Personal**, **Voice**, **Music**, **Theatre**. This function is under the **SOUND** button.
Bass	Increase or decrease bass (on a scale of 0 – 100).
Treble	Increase or decrease treble (on a scale of 0 – 100).
Balance	Set the balance between the left and right speakers.
AVL	The AVL (Automatic Volume Limiting) function aligns the various volumes of the various transmissions with each other. **Off**: Original volumes; **On**: Equal volume.
SPDIF	Activate or disactivate the SPDIF output.

Channel menu

Menu Item	Setting
Channel Manager	Allows you to lock channels, delete channels, add/remove channel skip, move channel position and rename channels.
Favorite Manager	Add and remove favourites. Up to 4 favourite lists are available.
Auto Search	You can select the country and then complete re-tune of the television.
Manual Search	Select the start channel (which relates to the frequency) and search manually for a channel.

Tuning the video recorder manually

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

Connect the TV and the video reorder 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.

Feature menu

Menu Item	Setting	
System Lock	This menu allows you to lock certain features of the television so that they cannot be used or viewed. For example if you don't want certain channels viewed by children.	
	When you enter the system lock menu you will be asked for a pin code. As default it is 0000.	
	You now have the choice to lock any of the following:	
	System Lock	Switches all the locks on or off.
	Key Lock	Stops the buttons on the television working.
	Change Pin Code	Press **OK** to enter, first enter the current code, then enter your new code and confirm your new code.
Language	Select the OSD menu language. It changes immediately.	
Timer	Lets manually set recording by date, time and number of recordings.	
	Only available in DTV mode.	
Clock	Allows you to set the clock (as default the information is taken automatically from the digital signal). Only available in DTV mode.	
Hearing Impaired	You can switch on the hearing impaired feature, this provides additional information and subtitles.	
	Only available in DTV mode.	
First Time Installation	You can call up the Menu for the first time installation here.	
	The settings are described from Page 12.	
CI Info	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.	

Setup menu

	Setup	
	OSD Timer	30 Seconds
Picture	Sleep Timer	Off
	Aspect Ratio	Full
Sound	PC Setup	←
Channel	Blue Screen	Off
	Reset To Default	←
Feature	Firmware Upgrade	←
Setup		
▲▼◀▶ Move OK Enter MENU Return EXIT Exit		

Menu Item	Setting	
OSD Timer	You can select a time after which the OSD menu automatically disappears (5 to 30 seconds).	
Sleep Timer	You can set a time after which the appliance switches itself off (15 to 120 minutes).	
Aspect Ratio	Select picture format. This function is under the **PIC FORMAT** button (see page 13).	
PC Setup	This menu allows you to change some features in PC mode and will only be available in PC mode. You now have the following choices:	
	Auto Adjust	If you want to move the image, select **Auto Adjust** and press **OK** to move it back to the centre. This should be done in the full image mode to ensure the settings match.
	H Position	You can use ◀ ▶ to change the horizontal length of the picture.
	V Position	You can use ◀ ▶ to change the vertical length of the picture.
	Phase	If the PC picture is not clear, you can use ◀ ▶ to 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). Set the pixel frequency with ◀ ▶ .
Blue Screen	Changes the background when there is no input between clear and a blue background (Only available in some sources).	
Reset To Default	**Reset Menu System**	This resets the menus to factory settings.
	Reset TV Channels	This clears all the TV channels from the television.
Firmware Upgrade	From time to time we may release new firmware to improve the running of the television (available to download). This menu lets you upgrade that software onto the television. Further details of how to do this will be issued with the firmware. Contact the helpline or refer to the 'product support' section of the website.	

Media Menu

> **Note**
>
> Before operating **Media** menu, plug in a USB device.

▶ Press **INPUT** button to set the input source to **Media**.

▶ Press **OK** button to enter.

You can select the following menus:

- **Movie** - to playback movies
- **Music** - to playback music
- **Photo Manger** - to playback pictures
- **PVR** - to start and manage life recording

Examples of connections

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.

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 / S-video cable

▶ 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.

Alternative

▶ Instead of a video cinch cable, you can also connect an S-video cable from the S-video output on the LCD TV to the S-video output on the external device.

Note

Avoid distorting the picture by making sure not to use the S-video and the video input at the same time.

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 / S-video cable

▶ 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.

Alternative

▶ Alternatively, you can also connect an S-video cable between the S-video input on the LCD TV and the S-video output on the external device.

Note
Do not use the S-video and video inputs at the same time to avoid interfering with the image.

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 or S-video cable

▶ 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.

▶ As an alternative to the video cinch cable (yellow) you can also connect an S-video cable between the S-video input on the LCD TV and the S-video output on the camcorder.

Note

Do not use the S-video and video inputs at the same time to avoid interfering with the image.

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.	• 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.	• 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.	• 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.	• The reception might be poor. Check if the antenna is connected properly.
The picture is not clear.	• The reception might be poor. • Check if the antenna is connected properly.
The picture is too bright or too dark.	• Check the settings for contrast and brightness.
The picture is not sharp.	• 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.	• Check if the antenna is aligned properly. • Waves might be reflected off buildings or mountains.
The picture is pixellated.	• 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.	• 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.	• The child lock might be on.
The remote control does not work.	• 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 **1920 x 1080 pixels**, which are each made up of three sub-pixels (red, green, blue), there are a total of **approx. 6.2 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.
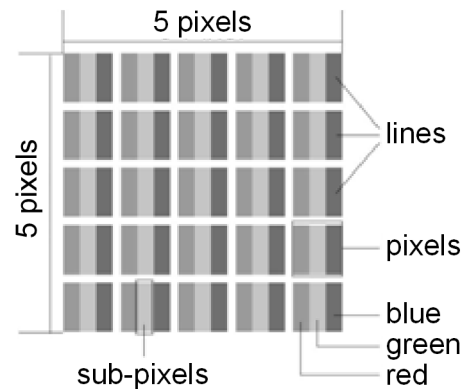
Description		Accepted number
Bright sub-pixel	1 sub-pixel	≤ 1
	Two adjacent (horizontal/vertical)	≤ 0
Separation	Minimum distance between bright and dark sub-pixels	≥ 5 mm
Dark sub-pixel	Single	≤ 8
	2 adjacent	≤ 2
Separation	Minimum distance between bright and dark sub-pixels	≥ 5 mm
Total number of bright 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	220-240 V ~ 50 Hz
Screen size:	32" (approx. 80 cm) TFT; 16:9 display
Power consumption:	180 Watt
Power consumption on standby:	< 1 W
Physical resolution:	1920 x 1080
TV system:	PAL, SECAM, B/G, D/K, K', I/I, L/L'
Channels:	VHF (channels I/III)
	UHF (BAND U)
	HYPERBAND
	CABLE TV (S1-S20) / (S21-S41)
Audio:	Stereo/Nicam
Analogue programme positions:	100
Digital programme positions:	200
Antenna input:	75 Ohm
Connections:	Antenna connection (analogue), VGA (15 Pin D-Sub), 3 HDMI with HDCP-decoding, 2 SCART, Composite Video in (1 Cinch), YPbPr (YUV; 3 Cinch), S-Video (Mini DIN), PC AUDIO IN (3.5 mm stereo jacks), Stereo Audio in for S-video/composite video/YUV (2 cinch), Headphones jack (3.5 mm jack approx. 100 mV output voltage)
Dimensions/ weight with stand:	Approx. 800 x 590 x 215 mm (W x H x D) / 13.4 Kg
Dimensions/ weight without stand:	Approx. 800 x 515 x 108 mm (W x H x D) / 12.5 Kg

Remote control

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

CE

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.