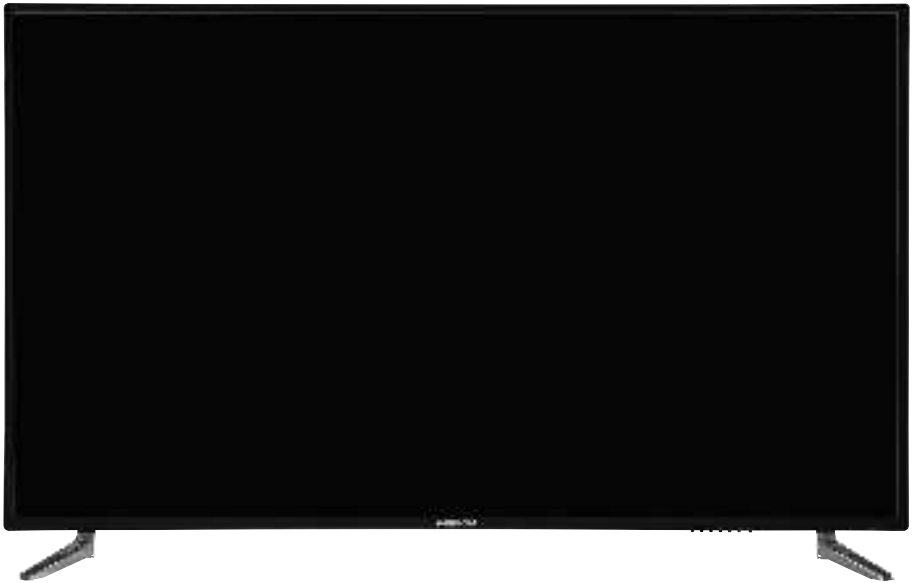# MEDION®

User Manual

Ultra HD TV
MEDION® LIFE®
P15001 (MD 31700) / P15501 (MD 31701) / P16502 (MD 31702)

Contents

EN

1. Information about these operating instructions

Thank you for choosing our product. We hope you enjoy using it.
Read the safety instructions carefully before using the device for the first time. Note the warnings on the device and in the operating instructions.
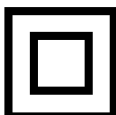
Always keep the operating instructions close to hand. If you sell the device or give it away, please ensure that you also pass on these operating instructions. They are an essential component of the product.

1.1. Explanation of symbols

If a block of text is marked with one of the warning symbols listed below, the hazard described in that text must be avoided to prevent the potential consequences described there from occurring.

⚠	**DANGER!** Warning of immediate mortal danger!
⚠	**WARNING!** Warning of possible risk of fatal injury and/or serious irreversible injuries!
⚠	**CAUTION!** Warning: risk of minor or moderate injuries!
❗	**NOTICE!** Please follow the instructions to avoid property damage!
ℹ	Additional information on using the device!

[i]	**NOTICE!** Please follow the instructions in the operating instructions!
[⚡]	**WARNING!** Warning of risk of electric shock!
[🔊]	**WARNING!** Warning: danger due to loud volume!
•	Bullet point/information on steps during operation
▶	Instructions to be carried out
C E	Declaration of conformity (see section "Declaration of conformity"): Products that feature this symbol meet the requirements of the EC directives.
[□]	**Safety class II** Electrical appliances in protection class II are electrical appliances that permanently have double or reinforced insulation and do not have any connection options for a protective earth. The housing of an electrical appliance in protection class II that is enclosed in insulated material can partially or fully act as the additional or reinforced insulation.

1.2. Proper use

This is an information technology device and is also suitable for multimedia applications. This device is used to receive and play back television programmes. The range of different connections supplied makes it possible to expand the input and output sources (receiver, DVD player, DVD recorder, video recorder, PC, etc.). Your device offers a number of options for usage.

The device is intended for private use only and not for industrial/commercial use.

*   Please note that we shall not be liable for damage caused by improper use.
*   Do not modify the device without our consent and do not use any auxiliary equipment that we have not approved or supplied.
*   Use only spare parts and accessories that we have supplied or approved.
*   Heed all the information in these operating instructions, especially the safety information. Any other use is deemed improper and can cause personal injury or property damage.
*   Do not use the device in extreme environmental conditions.
*   This device is intended for use in dry, indoor areas only.
*   This device is not designed to be used as a data monitor for office workplaces.

2. Package contents

Please check your purchase to ensure that all items are included. If anything is missing, contact us within 14 days of purchase.

The following items are supplied with your product:

*   Ultra HD-TV
*   Remote control (RC1244) including 2 batteries (1.5 V AAA)
*   YUV adaptor
*   AV adaptor
*   Stands including screws
*   Documentation

DANGER!

Risk of choking and suffocation!

Packaging film can be swallowed or used improperly, creating a risk of suffocation!

▶ Keep packaging material such as plastic film or plastic bags away from children.

3. Safety instructions

3.1. Operating safety

– Check the device for damage before using it for the first
   time. A defective or damaged device must not be placed
   into operation.
– This device may be used by children over the age of 8 and
   by persons with reduced physical, sensory or mental abili-
   ties or by those without experience and knowledge, if they
   are supervised or have been instructed in the safe use of
   the device and have understood the dangers that result
   from it.
– Children must not be allowed to play with the device.
   Cleaning and user maintenance must not be carried out by
   children unless they are supervised.

DANGER!
Risk of suffocation!
Packing material is not a toy! Packaging film can be
swallowed or used improperly. Therefore, there is a risk
of suffocation!

▸ Keep packaging material such as plastic film or plastic bags
away from children.

WARNING!
Risk of electric shock!
Risk of electric shock, short circuit and fire!

▸ Never open the housing of the LCD TV and never insert any
objects through the slots and openings into your LCD TV.

WARNING!

Overheating! Risk of fire!

Overheating can damage your LCD TV and lead to a risk of fire!

▶ The slots and openings on the TV are for ventilation purposes. Do not cover these openings e.g. with newspapers, table cloths, curtains, etc.

  – Do not put any pressure on the display. There is a risk that the glass on the screen may break.

  – The universal remote control has a class 1 infrared diode. Never use optical devices to look at the LED.

CAUTION!

Risk of injury!

There is a risk of injury if the display is broken!

▶ To avoid damaging the display, do not touch it with fingers or sharp objects.

▶ Pick up the shattered pieces wearing protective gloves.

▶ Then wash your hands with soap because chemicals may have leaked out.

▶ Send the broken parts to your Service Centre for professional disposal.

  – Disconnect the device from the mains network immediately in the event of an emergency and only use it again when it has been checked by a qualified person or customer services. Emergency situations include e.g. when smoke or unusual noises are coming from the device, water has penetrated into it or the mains cable or housing is damaged.

Contact customer services if:
- – The power cable is burnt or damaged
- – Liquid has penetrated the device
- – The device is not operating correctly
- – The device has fallen, or the housing is damaged
- – Smoke is rising from the device

3.2. Set-up location

- – In the first few hours of use, new devices can give off a typical, unavoidable but totally harmless smell which wears off with time. We recommend that you ventilate the room at regular intervals to counteract the smell. We have taken appropriate measures during the development of this device to ensure that levels are significantly below legal limits.
- – Keep your LCD TV and all connected appliances away from moisture and avoid dust, heat and direct sunlight. Non-compliance with these instructions can lead to faults or damage to the LCD TV.
- – Do not use the device outdoors as it could be damaged by rain, snow, etc.
- – The device must not be exposed to dripping or sprayed water. Do not place vessels filled with liquid (vases or similar) on or in the vicinity of the device. The container may tip over and the liquid may impair the electrical safety of the product.

NOTICE!

Risk of damage!

There is a risk of injury with candles and other open flames.

▸ Keep candles and other open flames away from this device at all times in order to prevent the spread of fire.

– Make sure that there is enough clearance from the sides of the furniture unit. Ensure a minimum clearance of 10 cm around the device for sufficient ventilation.

– Avoid dazzle, reflections and strong bright-dark contrast in order to protect your eyes.

– The optimal viewing distance is 3 times the screen diagonal.

DANGER!

Risk of injury! Mortal danger!

Only set up your TV on a stable surface. Televisions that tip over could cause serious injuries or death. Lots of injuries, especially to children, can be avoided by observing the following safety precautions.

▸ Operate all components on a stable, level and vibration-free base, to prevent the LCD TV from falling over.

▸ Only use the stand and screws supplied with the TV.

– Only use furniture that guarantees the safe use of the TV.

– Ensure that the TV does not hang over the edges of the furniture.

– Do not place the TV on higher or high furniture such as wall cabinets or shelves without ensuring that both the furniture and the TV are safely and securely held in place.

– In order to guarantee the stability of the TV, do not place any sheets or similar under it.

– Advise children of the dangers of climbing up furniture in order to reach the TV or its operating elements.

If you are storing or moving the TV, also observe the aforementioned safety instructions.

3.3. Repairs

– Repairs to your LCD TV should only be carried out by qualified specialists.
– If a repair must be carried out, please only contact our authorised service partner.
– Make sure that only replacement parts provided by the manufacturer are used. The use of unsuitable replacement parts may damage the device and lead to a risk of fire.

3.4. Environmental temperature

– The device can be operated at an ambient temperature of +5°C to +35°C with a relative humidity of 20% - 85% (non-condensing).
– When switched off, the LCD TV can be stored at temperatures from -20°C to +60°C.
– Keep the product at least one metre away from sources of high-frequency and magnetic interference (television set, loudspeakers, mobile telephones, etc.) in order to avoid malfunctions.
– During thunderstorms or if the device is not going to be used for long periods, remove the plug from the socket and the aerial cable from the aerial socket.

NOTICE!

Risk of damage!

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.

▸ After transporting the LCD TV, wait until the appliance has reached ambient temperature before switching it on.

3.5. Safety when connecting

3.5.1. Power supply

– Even when deactivated, some components of the device are live. To disconnect the power from your LCD TV or to completely isolate the device from voltage sources, disconnect the device completely from the mains network. Disconnect the mains plug from the mains socket for this purpose.

DANGER!

Risk of electric shock!

There is a risk of death due to an electric shock when the housing is open!

▸ Do not open the housing of the device. It does not contain any parts requiring maintenance.

– Only plug the LCD TV into earthed 100 - 240 V ~ 50/60 Hz sockets. Contact your electricity provider if you are not sure if the socket is earthed or not.

– The socket must always be easily accessible so that the mains plug can be quickly disconnected from the socket in the event of an emergency.

– To disconnect the power supply to your TV, disconnect the mains plug from the mains socket.

– 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.
– Position the cables so that they cannot be stepped on or tripped over.
– Do not place any objects on the cables as they may be damaged.
– Do not touch the plug with wet hands.
– Always hold the plug by its housing and never pull it out of the socket using the cable.
– Please note that the TV also continues to consume power in standby mode (see here the power consumption in standby mode in the section "Product data sheet").

All multimedia devices, which are connected to the corresponding ports of the TV, must comply with the requirements of the Low Voltage Directive.

3.6. Handling batteries

WARNING!
Risk of explosion!
Batteries may contain combustible materials and leak, heat up excessively, ignite or even explode.

▸ Avoid improper handling of the batteries to prevent damage to your device and your health.

Please follow the safety advice below closely:

– Keep batteries away from children.
  If batteries are swallowed, consult a doctor immediately.
– Never charge batteries (unless they are designed to be recharged).
– Never empty the batteries by means of high power output.
– Never short-circuit the batteries.
– Never expose the batteries to excessive heat, such as sunlight, fire or similar sources of heat!

– Do not dismantle or deform the batteries.
  You could injure your hands or fingers, or battery fluid
  could come into contact with your eyes or skin. If this hap-
  pens, rinse the affected areas with plenty of clean water
  and consult a doctor immediately.
– Avoid heavy impacts and vibrations.
– Always observe the correct polarity.
– Make sure that the plus (+) and minus (−) poles are correct-
  ly inserted to avoid short circuits.
– Do not mix up new and old batteries or different types of
  batteries.
  This could cause your device to malfunction. In addition, the
  weaker batteries would discharge too much.
– Remove spent batteries from the device immediately.
– Remove the batteries from the device if you do not intend
  to use it for a long period of time.
– Replace all of the old batteries in a device with new batter-
  ies of the same type.
– Cover the contacts of the batteries with sticky tape if you
  want to store or dispose of them.
– If necessary, clean the battery and device contacts before
  insertion.
– If the batteries have leaked, wear protective gloves and
  clean the contacts thoroughly.

4. Declaration of conformity

Always observe the relevant legal regulations in the country of use.

Medion AG hereby declares that this device conforms to all of the required regulations in the EU and the fundamental requirements and the remaining relevant regulations of:

- RE Directive 2014/53/EU
- Ecodesign Directive 2009/125/EC
- RoHS Directive 2011/65/EU

Full declarations of conformity are available at www.medion.com/conformity.

$$C\mkern-2mu\in$$

5. Device overview

5.1. Front

MD 31700:
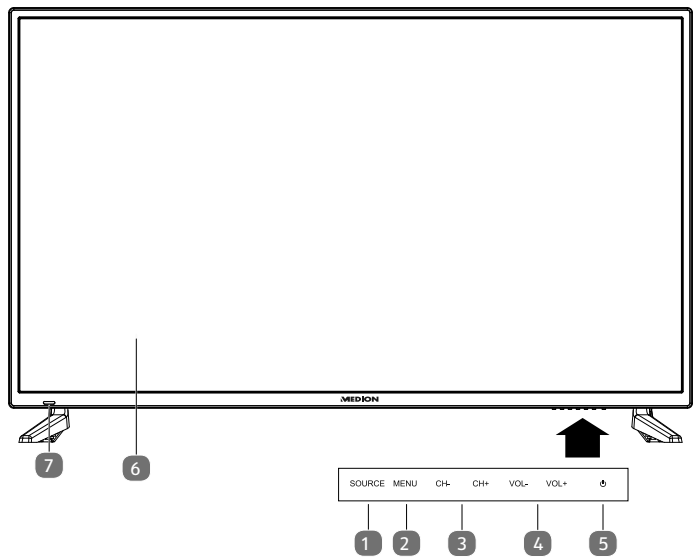
MD 31701:
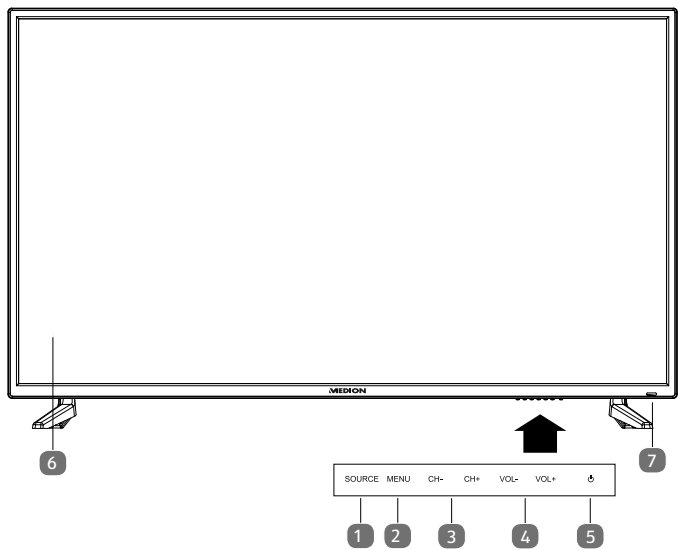
MD 31702:
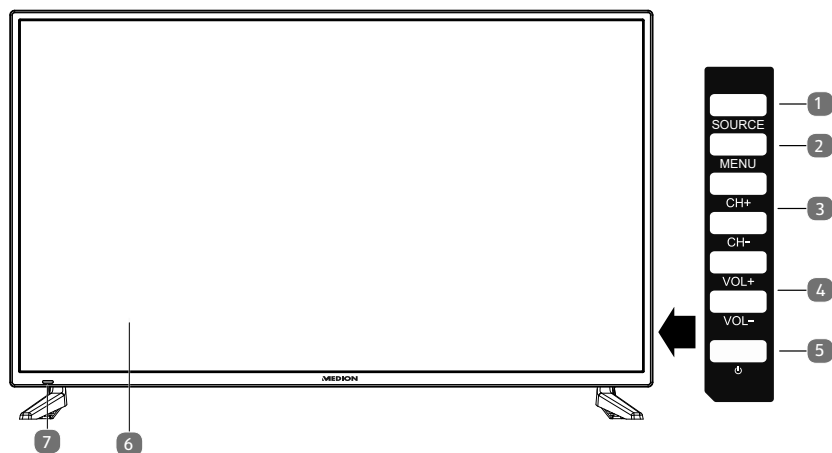
1) **SOURCE**: Change the input source
2) **MENU**: Call up the on-screen menu to make settings on your device
3) **CH+/CH-**: Select a program or navigate in the menu
4) **VOL+/VOL-**: Set the volume or navigate in the menu
5) ⏻: Standby button: Switch the device on or into standby mode
6) LCD screen
7) Operating light: Shines red when the device is in standby mode.
   Shines blue when the device is switched on.
   Infrared sensor: Reception field for the infrared remote control signals.

5.2. Rear
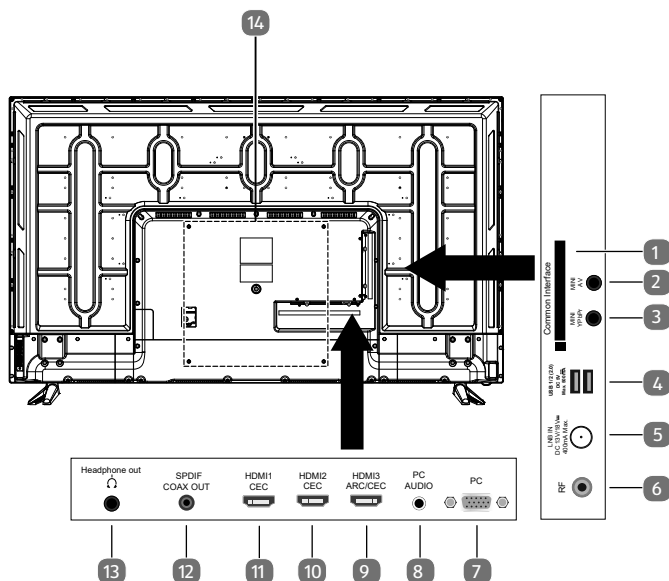
1) **COMMON INTERFACE (CI+)**: Card slot for connecting pay TV cards
2) **MINI AV**: Audio/video input (via the supplied cinch adaptor)
3) **MINI YPBPR**: YPbPr components input (via the supplied cinch adaptor)
4) **USB(2.0) DC 5V$=\!=$, Max. 500mA**: USB port for connecting an external storage medium for playing back media/PVR recording.
5) **LNB IN DC 13V/18V$=\!=$ 400mA Max.**: For connecting the antenna (satellite)
6) **RF**: Antenna connection (DVB-T/DVB-T2 HD/DVB-C/analogue)
7) **PC**: Socket for connecting a PC
8) **PC AUDIO**: Audio socket for PC sound playback
9) **HDMI3 ARC/CEC**: HDMI port for devices with HDMI output (HDMI 3 can be used for CEC/ARC)
10) **HDMI2 CEC**: HDMI port for devices with HDMI output (HDMI 2 can be used for CEC)
11) **HDMI1 CEC**: HDMI port for devices with HDMI output (HDMI 1 can be used for CEC)
12) **SPDIF COAX OUT**: Digital audio output (coaxial)
13) **HEADPHONE OUT**: For connecting headphones with 3.5 mm jack
14) Fixing holes for a wall mount[1]
    P15001 (MD 31700): Vesa standard, hole spacing 400 x 200 mm
    P15501 (MD 31701): Vesa standard, hole spacing 400 x 200 mm
    P16502 (MD 31702): Vesa standard, hole spacing 600 x 300 mm

---

[1] Wall mount not supplied. When mounting the device, make sure that you use M6 screws. The length of the screws corresponds to the thickness of the wall mount plus 10 mm

5.3. Remote control
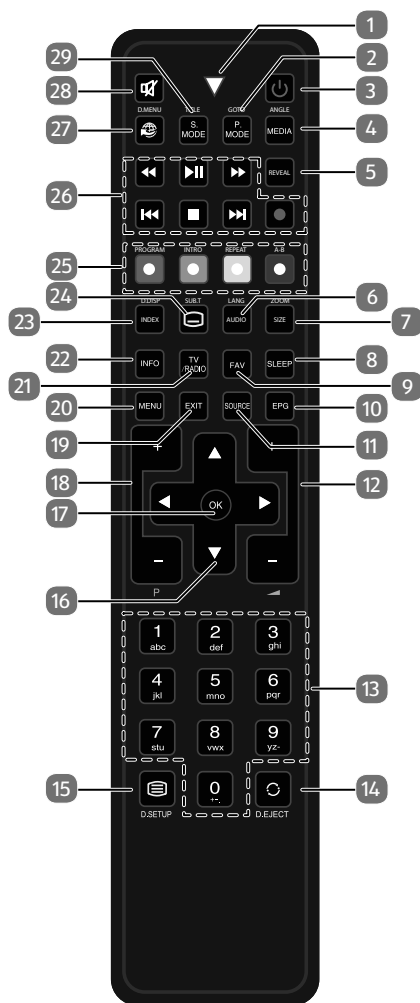
1	**LED display for confirming button selection.**	
2	**P.MODE**	Select picture mode
	GOTO	No function
3	(power symbol)	POWER: i.e. switch LCD TV on/off (switch standby mode on/off).
4	**MEDIA**	Open media browser
	ANGLE	No function
5	**REVEAL**	Video text: Display hidden text.
6	**AUDIO**	ATV: Set the normal sound format to stereo or mono
	LONG	DTV/Satellite: Select the audio languages
7	**SIZE**	Change image format
		Video text: Press once to enlarge top half
		Press twice to enlarge bottom half
	ZOOM	No function
8	**SLEEP**	Set automatic switch-off function
9	**FAV**	Call up favourites list
10	**EPG**	Electronic television and radio programme guide (broad-caster-specific)
11	**SOURCE**	Select input signal of connected devices.
12	− ◢ +	Increase (+) or decrease (−) volume.
13	**Number buttons**	TV: Programme selection, teletext: Page selection
14	↻	Set previous TV programme.
	EJECT	No function
15	▤	Open video text
		Press twice: set transparent
		Press three times: close
	D.SETUP	No function
16	**Direction buttons**	▲ — Move up in menu. Video text: Select the next page.
		▼ — Move down in menu. Video text: Select the previous page.
		◀ — Move left in menu. Video text: Call up subpage.
		▶ — Move right in menu. Video text: Call up subpage.

17	**OK**	Confirm selection in certain menus. Also used to open the channel list.
18	**P+/-**	Programme selection buttons
19	**EXIT**	Exit the menu
20	**MENU**	Open and close menu.
21	**TV/RADIO**	DTV/satellite: Switch between TV channels and radio stations.
22	**INFO**	For displaying information such as the current programme number and image format.
23	**INDEX D.DISP**	Video text: Call up main page
24	⬒ **SUB.T**	Video text: Open subpage DTV/satellite/media browser: Subtitle function

25	**Colour buttons**	RED **[PROGRAM]**	Intended for use in certain menus.
		GREEN **[INTRO]**	Intended for use in certain menus.
		YELLOW **[REPEAT]**	Intended for use in certain menus. Media browser: Repeat
		BLUE **[A-B]**	Intended for use in certain menus. Media browser: A-B repetition

26	**Buttons for operating the media browser**	◀◀	Rewind
		▶ ❙❙	Start/pause playback
		▶▶	Fast forward
		◀◀❙	Previous track/previous chapter
		■	Stop playback
		▶▶❙	Next track/next chapter
		●	Start PVR recording

27	🌐	No function
28	🔇	Mute
29	**S.MODE D.MENU**	Select sound mode No function

6.   Getting started

Before using for the first time, ensure you read the "Safety instructions" section.

6.1.   Unpacking

- Select a suitable place for setting up the device before unpacking.
- Open the box very carefully, to avoid damaging the device. The device might get damaged if you use a knife with a long blade to open the box.
- Completely remove the packaging material.
- The box contains a number of small items (including batteries). Keep these out of the reach of children, as they represent a choking hazard.
- Store the packaging material in a safe place. Only use this box to transport the TV.

⚠️ **DANGER!**
Risk of choking and suffocation!

Packaging film can be swallowed or used improperly, creating a risk of suffocation!

▸ Keep packaging material such as plastic film or plastic bags away from children.

6.2.   Mounting

Attach the stand as shown in the illustration. Carry out this step before connecting the LCD TV.
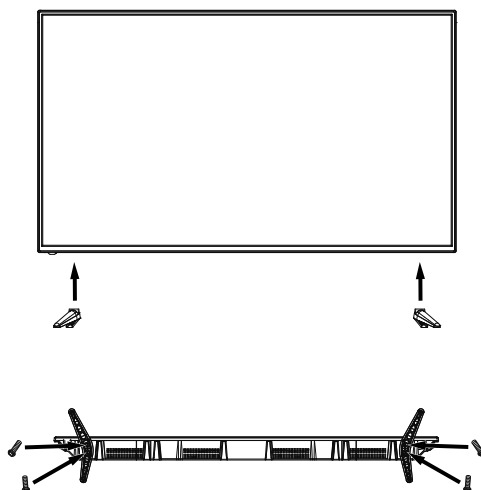
MD 31700: 4 x M4 x 17
MD 31701: 4 x M4 x 12
MD 31702: 4 x M4 x 14

6.3.   Inserting the batteries in the remote control

▶ Remove the battery compartment cover on the back of the remote control.
▶ Insert two LR03 (AAA) 1.5 V batteries in the battery compartment of the remote control. Check the battery polarity (see label on the bottom of the battery compartment).
▶ Close the battery compartment.

PLEASE NOTE!
Risk of damage!

The remote control can be damaged by leaking batteries if not used for a long period of time!

▶ Remove the batteries from the remote control if the device is not going to be used for a long period.

6.4.   Connecting the antenna

Your LCD TV supports different antenna signals. You can input the following image signals to the television through the socket labelled **RF**:

•   Via analogue cable/an analogue house aerial
•   Via a DVB-T/DVB-T2[2] antenna or
•   Via a DVB-C[1] connection
▶ Insert the antenna cable either from the house aerial/analogue cable connection, a DVB-T antenna or the DVB-C connection in the antenna socket on the LCD TV.

You also have the option of connecting a digital satellite system to the socket labelled **LNB IN**.

▶ Screw a coaxial antenna cable's F connector onto the connector on the LCD TV.

If you want to watch encrypted channels, or subscription channels, you must use a suitable card. Insert a CAM module (available in specialist shops) in the slot provided for this purpose on the left-hand side of the device (**COMMON INTERFACE**). You can then insert your provider's card in the CAM module.

This service must be available in your region

6.5. Common Interface (CI)

If you want to watch subscription channels, you must first register with the relevant provider. You will receive a Conditional Access Module (CAM module) and a special card from your provider after registration. You will find information about the settings in the documentation supplied with the module.

Install the CI components on your television in the following way:

▶ First insert the CAM module in the slot on the side of the LCD TV. Then insert the card.

▶ Connect the television to the power supply, switch it on, and wait for a moment until the card is recognised.

> **i** Please note that you can only insert or remove the CI module when the device is in STANDBY mode, or has been disconnected from the mains power.
>
> The CAM module must be inserted correctly: it cannot be inserted if it is the wrong way round. The CAM module or the television could be damaged if you attempt to insert the CAM module by force.

6.6. Connecting the power supply

▶ Connect the mains plug on the device to an easily accessible 220 - 240 V ~ 50 Hz mains socket.

6.7. Switching the LCD TV on and off

▶ The device will be in standby mode as soon as you have connected the mains plug to the mains socket.

▶ To switch on the device, press one of these
   – on the remote control: The Standby/On button ⏻.
   – On the device: The ⏻ button.

▶ Use the Standby/On button ⏻ on the remote control to switch the device back into standby mode. The device will be switched off, but will continue to use power.

> **i** If the device is not receiving an input signal, it will automatically switch to standby mode after five minutes. A countdown timer will be displayed on the screen until this time. This function is not available for all sources.

6.8. Channel search after switching on for the first time

You will be guided through the **FIRST TIME INSTALLATION** after you switch on the device for the first time.
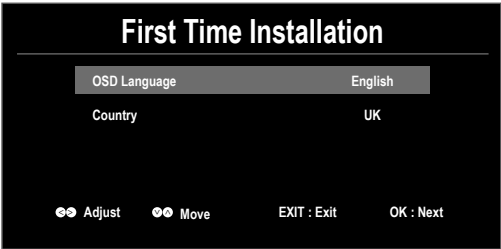
Menu option	Setting
OSD LANGUAGE	Use the direction buttons to select the OSD language.
COUNTRY	Use the direction buttons to select the country.

▸ After you have configured all the settings, press **OK**.

6.8.1. Cable and antenna
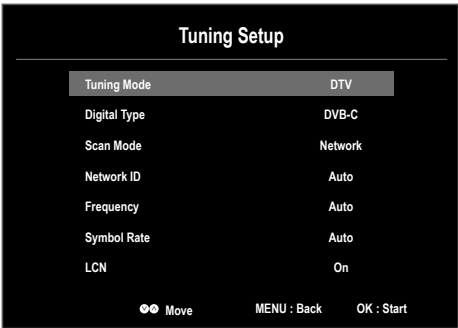
Menu option	Setting
TUNING MODE	Use the direction buttons to select the reception type: • **ATV+DTV** (search for analogue and digital TV channels) • **ATV** (search for analogue TV channels) • **DTV** (search for digital TV channels)
DIGITAL TYPE	Use the direction buttons to select the connection type (**DVB-T**, **DVB-C** or **SATELLITE**).

25

Menu option	Setting
SCAN MODE	You can set the search mode here. In the **NET-WORK** setting, only the active frequencies are searched for programs. In the **FULL** setting, the complete frequency band is searched, this requires the longest search time.
NETWORK ID (only in DVB-C mode)	Set the network ID. The default setting is **AUTO**. Only active if the **NETWORK** option has been selected in the Search mode settings.
FREQUENCY (only in DVB-C mode)	Set the frequency. The default setting is **AUTO**. Only active if the **NETWORK** option has been selected in the Search mode settings.
SYMBOL RATE (only in DVB-C mode)	Set the Baud rate. Only active if the **NETWORK** option has been selected in the Search mode settings.
LCN	Logical Channel Numbering: Select the **ON** setting if you want to sort the channels based on a preset channel list (if available from the channel supplier)

▸ After you have configured all the settings, press **OK**. The channel search will then start.

6.8.2. Satellite
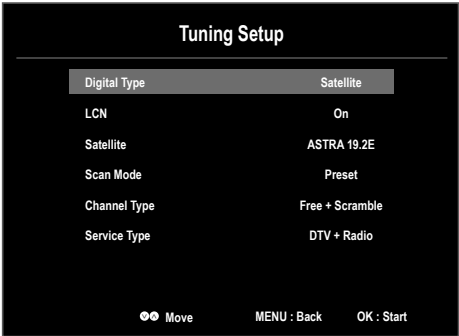
Menu option	Setting
DIGITAL TYPE	Use the direction buttons to select the connection type (**DVB-T, DVB-C** or **SATELLITE**).
LCN	Not available in the digital type **SATELLITE**

Menu option	Setting
SATELLITE	Select the satellite on which the search will be started.
SCAN MODE	Set the search mode. **DEFAULT**: A search will be carried out on the selected satellite, based on the transponder list saved for this satellite. This requires a little time. **NETWORK**: Activate/deactivate the network scan. **BLIND SCAN**: A complete search will be carried out on the selected satellite. This will also take into account new transponders that have not been added to the list of transponders. Two searches are carried out with the blind scan. The first search identifies the transponders for the satellite, while the second search locates the channels. The blind search takes the longest time. **PRESET**: The preinstalled channel list for the Astra 19.2E satellite is loaded. This search mode takes the least time. Select **YES** to load the channel list. Select **NO** to start the channel search.
	i In **PRESET** mode, no storage medium should be connected to one of the USB ports. Otherwise, the loading process takes considerably longer.
CHANNEL TYPE	Decide which channels you want to search for: **FREE** (available channels), **SCRAMBLED** (encrypted channels) or **FREE+SCRAMBLED** (available and encrypted channels).
SERVICE TYPE	Select the channel type. **DTV**: Search for digital TV channels. **RADIO**: Search for digital radio stations. **DTV + RADIO**: Search for digital TV channels and digital radio stations.

▸ After you have configured all the settings, press **OK**. The channel search will then start.

Channel Tuning			
ATV	:	0	Programme
DTV	:	0	Programme
Radio	:	0	Programme
Data	:	0	Programme

8%...   1678 DTV

EXIT Exit

The device will now search for the different types of channels in sequence. Wait for it to finish. You can quit the search process prematurely by pressing the **MENU** button.

The initial installation described here corresponds to the **FIRST TIME IN-STALLATION** option in the **SETUP** menu.

7. Multimedia connections

7.1. Use of the multimedia connections

NOTICE!
Risk of damage!
Incorrect operation can lead to damage to the equipment used.

‣ Before wiring and use, also read the operating instructions of the devices you are connecting.

NOTICE!
Risk of damage!
If plugs and sockets are connected incorrectly it can cause damage to the contacts.

‣ Ensure that the plugs and corresponding sockets fit together precisely in order to avoid any damage to the contacts. Due to the arrangement of the contacts, the plug will only fit into the socket in one position.

7.1.1. AV

AV transmission (composite) works via three RCA jacks in which one carries the video signal (yellow) and two carry the stereo audio signal (red/white). Use a commercially available AV cable.

‣ Connect the AV inputs and outputs of the equipment with an AV cable.
‣ If any of the connected devices have AV connections to mini jack, please use an appropriate AV adapter (3x RCA > mini jack) (optional).

7.1.2. YPbPr

YPbPr transmission (component) works via five RCA connections in which three jacks carry the video signal (red/blue/green) and the remaining two jacks carry the stereo audio signal (red/white). Use a commercially available YPbPr cable.

‣ Connect the YPbPr inputs and outputs of the equipment with a YPbPr cable.
‣ If any of the connected devices have YPbPr connections to mini jack, please use an appropriate YPbPr adapter (5x RCA > mini jack) (optional).

7.1.3. HDMI

HDMI (high definition multimedia interface) is an interface for digital video and audio transmission. It has the highest quality of transmission and can also play Ultra HD resolution (from version 2.0). Use a commercially available HDMI cable.

▶ Connect the corresponding HDMI ports of the devices used with an HDMI cable.

7.1.4. HDMI ARC

If you want to use a television as a signal receiver AND signal source (to transmit an audio signal to an audio receiver), you should use an HDMI port with audio return channel (ARC). The HDMI connection to the TV set then works in both directions. Video and audio signals can be received from a video device and the audio signal of the TV can also be sent to the audio receiver via the audio return channel.

▶ Connect the video device (e.g. Blu-ray player) to the audio receiver via HDMI.
▶ Connect the audio receiver to the TV set via HDMI/ARC.
▶ Make sure that the speaker control of the TV set is routed to the external amplifier.

7.1.5. HDMI CEC

If you connect different devices via CEC-enabled HDMI connections, you can control certain functions of the entire HDMI network with a single remote control (e.g. standby or record functions):

▶ Connect all devices via CEC-enabled HDMI ports with HDMI cables.
▶ Make sure that the CEC functions are enabled for all ports and that all devices are connected accordingly.

7.1.6. USB

A USB port can be used to connect and read storage media such as USB sticks or external hard drives. Use a suitable USB cable. If a suitable USB cable is included in delivery, you should use this (e.g. for hard drives).

▶ Connect the corresponding USB ports of the devices used with a USB cable. Whenever possible, do not use a USB extension cord as this can cause problems (depending on the voltage).

7.1.7. SPDIF

SPDIF (Sony®/Phillips digital interface) is an interface for transferring digital stereo or multi-channel audio signals between various devices. Usually, the digital audio signal is output via a coaxial (RCA) or an optical connection. Use a suitable, commercially available cable.

▶ Connect the SPDIF ports of the devices used with a corresponding SPDIF cable.

7.1.8. VGA (PC)

Using the VGA port, you can connect a PC with a monitor/TV set to transmit the video signal. Use a commercially available VGA cable.

▶ Connect the VGA ports of the devices used with a VGA cable.

7.1.9.   VGA audio

If you have connected a PC to a monitor/TV via the VGA port, the VGA audio connection also allows audio transmission. Use a commercially available stereo mini jack cable.

▸ Connect the VGA audio ports of the devices used with a stereo mini jack cable.

7.1.10. Headphone out

The headphone socket is used for connecting a pair of headphones with a stereo mini jack connection.

▸ Connect the headphones to the stereo mini jack of the device. On some devices, this will mute the speakers.
▸ Otherwise, you should perform all necessary settings in the sound menu to co-ordinate the speaker and headphone signals.

WARNING!

Risk of hearing damage!

To prevent possible damage to your hearing, avoid listening at high volume over long periods of time.

▸ Before pressing play, set the volume to the lowest setting.
▸ Start playback and increase the volume to a comfortable level.

8. Operation

8.1. Channel selection
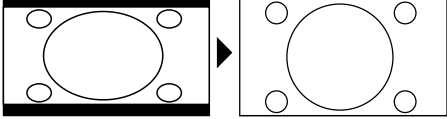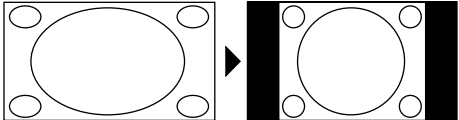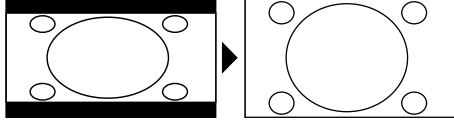
▸ To select a channel, either press the **CH+/−** buttons (on the device) or the **P+/-** buttons (on the remote control) or select the channel directly by pressing the appropriate number.
For a two- or three-figure number, press the numbers one after another.

▸ Press the ⟳ button to select the last channel played.
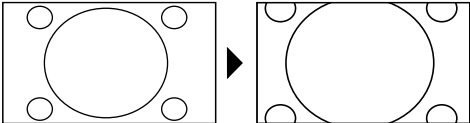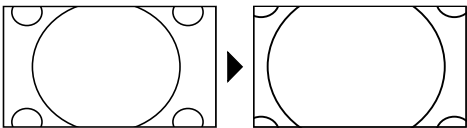
8.2. Sound settings

▸ You can increase or decrease the volume by pressing the volume buttons − ◂ + (on the remote control) or **VOL+/-** (on the device).

▸ Press the mute button 🔇 to switch the volume fully off and on again.

▸ Use the **AUDIO** button to select from the available audio languages (audio channels). If the current programme supports DUAL mode (e.g. for dual-language programmes), you can select DUAL mode.

▸ Use the **S.MODE** button to switch between the following sound modes: **STANDARD, MOVIE, MUSIC, USER**. The **USER** setting is defined in the **SOUND > SOUND MODE** menu.

8.3. Screen settings

▸ Use the **P.MODE** button to switch between the following picture modes: **STANDARD, DYNAMIC, MOVIE, USER**. The **USER** setting is defined in the **PICTURE > PICTURE MODE** menu.

▸ Depending on the programme, the pictures are transmitted in the formats 4:3 or 16:9. Use the **SIZE** button to adjust the picture format:

AUTO (not available for ATV and VGA) The format displayed is automatically adjusted to match the input signal.	
FULL SCREEN (only available for ATV): Expands the display to fill the screen.	
4:3 For undistorted picture display in 4:3 format.	
16:9 (not available for ATV) For undistorted picture display in 16:9 format.	

ZOOM 1 The picture is stretched in all directions in level 1.	
ZOOM 2 The picture is stretched further in level 2.	

You can also change the picture format in the menu **OPTION > ASPECT RATIO**.

> Please note that not all picture formats are available depending on the chosen picture source.

8.4. Displaying channel information

▸ Press the **INFO** button to display information about the current channel.
▸ You can scroll through the channel information using the direction buttons
  ▲ ▼.

8.5. Opening the favourites list

You can enter a list of your favourite channels in the **CHANNEL > PROGRAM EDIT** menu.

▸ Open the menu by pressing the **MENU** button.
▸ Under the menu option **CHANNEL**, select the entry **PROGRAM EDIT** and confirm with **OK**.
▸ Use the direction buttons ▲ ▼ to select the desired channel and press the **FAV** button to add it to your favourites list.
▸ Then press the **EXIT** button (or the **MENU** button multiple times) to exit the menu.
▸ If you now press the **FAV** button during normal operation, the favourites list will open and the previously selected channels will be displayed.

Favourite List		
1 ---	▼	DTV
2 ---	▼	DTV
3 ---	▼	DTV
4 ---	▼	DTV
5 ---	▼	DTV
6 ---	▼	DTV
7 ---	▼	DTV
8 ---	▼	DTV
9 ---	▼	DTV
10 ---	▼	DTV
11 ---	▼	DTV
⊕ Move	OK	Select
Ch+/- Page Up/Down	EXIT	Quit
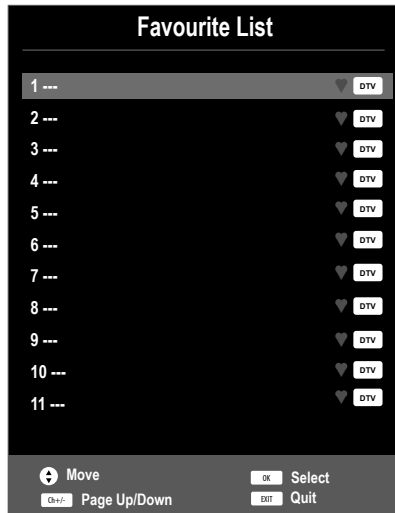
▶ Select a channel using the direction buttons ▲ ▼ and open it with **OK**.
▶ You can move within the favourites list in steps of 10 using the **P+/P-** buttons.

8.6. Selecting the source

▶ Press the **SOURCE** button (on the remote control or on the device) to call up the source selection list.
  – **SATELLITE**: Digital satellite signal
  – **DTV**: Digital TV operation (digital cable connection, DVB-T, DVB-T2 HD)
  – **ATV**: Analogue TV operation (analogue cable connection)
  – **AV**: Audio/video input on the side of the device via an adapter (AV)
  – **YPBPR**: Device on the YPBPR input via an adapter (YUV)
  – **HDMI 1**: HDMI input 1 (HDMI 1 can be used for CEC)
  – **HDMI 2**: HDMI input 2 (HDMI 2 can be used for CEC)
  – **HDMI 3**: HDMI input 3 (HDMI 3 can be used for CEC/ARC)
  – **VGA**: Device on PC input (VGA)
  – **USB**: Media player
▶ Use the direction buttons ▼ ▲ to go to the desired source.
▶ Confirm your selection with the **OK** button.

9. Teletext

Teletext is a free service broadcast by most channels and contains the latest news, weather, TV listings, share prices, subtitles and other information.

9.1. Using the teletext

Your remote control has special buttons for operating the teletext.

▸ Select a TV channel that broadcasts teletext.
▸ Press the ▤ button once to display the start/index page for the teletext.
▸ Press the ▤ button again to make the teletext transparent (the TV image can be seen in the background).
▸ Press the ▤ button again to switch back to TV mode.

9.2. Selecting a page

▸ Enter the number of the desired teletext page as a three-digit number using the number buttons.
   The selected page number is displayed in the top left corner of the screen. The teletext counter searches as long as it takes to find the selected page number.
▸ The direction buttons ▲ ▼ can be used to scroll forwards or backwards through the teletext pages.

9.2.1. Colour buttons

If coloured fields or 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 [**PROGRAM**], GREEN [**INTRO**], YELLOW [**REPEAT**] and BLUE [**A-B**].

9.2.2. SUB.T (▭)

Some teletext 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 call these subpages by pressing the ▭ button. You can also scroll through the subpages using the direction buttons ◀ ▶.

9.3. Useful teletext functions

9.3.1. INDEX

▸ Use the **INDEX** button to select the main teletext page.

9.3.2. REVEAL

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

9.3.3. SIZE

This function displays the teletext 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 teletext in normal size.

10. Menu navigation

▶ Press the **MENU** button to activate the OSD. The available options are displayed on the lower edge of the screen.
▶ You can use the direction buttons ▲ ▼ to select the options from the main menu.
▶ You can use the direction buttons ▲ ▼ to select the options from a menu.
▶ You can use the direction button ▶ to access a submenu (not every menu has a submenu option).

▶ You can use the direction buttons ◀ ▶ ▼ ▲ to enter a value or make another se-lection.
▶ The **MENU** button returns you to the previous menu at any time.
▶ Close the menu with the **EXIT** button.

Please note that the menu will close automatically if no button is pressed.

You can select the following main menus:

• **PICTURE** menu
• **AUDIO** menu
• **CHANNEL** menu
• **SETUP** menu
• **TIME** menu
• **LOCK** menu
• **SOURCE** menu

Due to technical changes, the menus described here may differ from the menus actually displayed on your screen. Depending on the selected source, not all menus are available.

10.1. Picture menu

Picture

Picture Mode	Standard
Brightness	50
Contrast	50
Colour	50
Sharpness	50
Tint	0
Colour Temp	Normal
Noise Reduction	Middle
Backlight	80
Overscan	On

Adjust   MENU Return
Move   OK Select   EXIT Exit
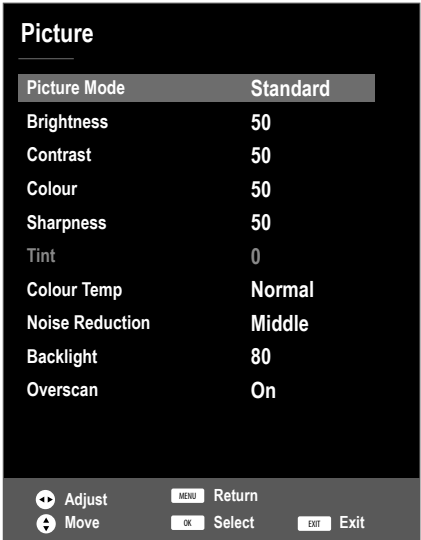
Menu option	Setting
PICTURE MODE	Select screen mode: **STANDARD, DYNAMIC, MOVIE, USER**. This function corresponds to the **P.MODE** button.
BRIGHTNESS	Increase or reduce brightness (on a scale of 0 to 100).
CONTRAST	Increase or reduce contrast (on a scale of 0 to 100).
COLOUR	Increase or reduce the colour (on a scale of 0 to 100).
SHARPNESS	Increase or reduce sharpness (on a scale of 0 to 100).
TINT	Hue settings are only available for NTSC reception
COLOUR TEMP	Select colour temperature: **COLD, NORMAL** and **WARM**.
NOISE REDUCTION	This function reduces picture noise and improves picture quality when the signal is weak. Select **OFF, WEAK, MIDDLE** and **STRONG**.
BACKLIGHT	Here you can set the brightness level for the background lighting to suit your preference.
OVERSCAN	This function in the screen settings menu is available as soon as the picture signal is received via an HDMI or YPbPr input. You can use this function to display the picture in overscan mode (**ON**) or in 1:1 mode (**OFF**).

10.2. Audio menu

```
Audio

Sound Mode          Standard
Bass                50
Treble              50
Balance             0
SPDIF Mode          PCM
Surround Sound      Off
Auto Volume         Off
AD Switch           Off
AD Volume           60




  ◄► Adjust       MENU  Return
  ▲▼ Move         OK  Select      EXIT  Exit
```
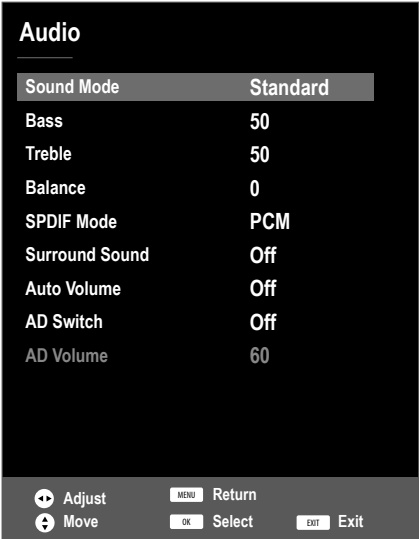
Menu option	Setting
SOUND MODE	Select the audio mode: **STANDARD**, **MOVIE**, **MUSIC**, **USER**. This function corresponds to the **S.MODE** button.
BASS	Decrease or increase high frequencies (on a scale of 0 to 100) to adjust bass.
TREBLE	Decrease or increase low frequencies (on a scale of 0 to 100) to adjust high frequencies.
BALANCE	Set the balance between the left and right speakers.
SPDIF MODE	Set the SPDIF mode.
SURROUND SOUND	Activate/deactivate the surround sound effect.
AUTO VOLUME	The **AVL** (Automatic Volume Limiting) function compensates for the various volumes of the different channels. Set to **OFF** to return to the original volume settings. Set to **ON** to hear a constant volume.
AD SWITCH	Activate/deactivate audio description and set the volume. Only available in DTV mode. Support for this function is dependent on the programme.
AD VOLUME	Set the volume for narrator mode here (on a scale of 0 to 100). **ⓘ** This option can only be selected if **AD SWITCH** is enabled.

10.3. Channel menu

```
Channel
─────────────
DVB Antenna              DVB-T
Auto Scan
DTV Manual Tuning
Programme Edit
Channel List
Favourite List
CI Information
Signal Information




   ⬌  Adjust        MENU  Return
   ⬍  Move           OK   Select        EXIT  Exit
```

Menu option	Setting	
DVB ANTENNA (only in DTV mode)	Use the direction buttons to select the digital connection type (**DVB-T** or **DVB-C**).	
AUTO SCAN	The following setting options are available if you have selected **DTV** (DVB-T or DVB-C) as the source:	
	TUNING MODE	Use the direction buttons to select the reception type: • **ATV+DTV** (search for analogue and digital TV channels) • **ATV** (search for analogue TV channels) • **DTV** (search for digital TV channels)
	COUNTRY	Select the country for the channel search.

	LCN	Logical Channel Numbering: Select **ON** (on) if you want to sort the TV stations using a preset TV station list (if this is available from the TV station provider)
	AUTO SCAN	After you have configured all the settings, press **OK**. The channel search will then start.
	SCAN MODE (only in DVB-C mode)	This is where you set the search mode. If you have selected **NETWORK**, only the frequencies that are enabled are searched for programmes. If you have selected **FULL** the entire frequency band is searched. However, this search will take longer.
	MODULA-TION	Set the modulation
	SYMBOL (only in DVB-C mode)	Set the Baud rate. Only active if the **NETWORK** option has been selected in search mode.
	NETWORK ID (only in DVB-C mode)	Set the network ID. The default setting is **AUTO**. Only active if the **NETWORK** option has been selected in search mode.
	FREQUEN-CY (only in DVB-C mode)	Set the frequency. The default setting is **AUTO**. Only active if the **NETWORK** option has been selected in search mode.
	If you have selected **SATELLIT** (satellite) as the source, the following setting options are available:	
	SATELLITE	Select the satellite on which the search will be started.
	CHANNEL TYPE	Decide which channels you want to search for: **FREE**, **SCRAMBLE** or **FREE+SCRAMBLE**.

41

	SERVICE TYPE	Select the channel type. **DTV**: Search for digital TV channels. **RADIO**: Search for digital radio stations. **DTV+RADIO**: Search for digital TV channels and digital radio stations.	
	SCAN MODE	Set the search mode. **DEFAULT**: A search will be run on the selected satellite, based on the transponder list saved for this satellite. This will take some time. **NETWORK**: Activate/deactivate the network scan. **BLIND SCAN**: A full search will be run on the selected satellite. This will also take into account new transponders that have not been added to the transponders list. Two searches are performed during a blind scan. The first search identifies the satellite's transponders. The second search locates the TV stations. The blind scan takes the longest. **PRESET**: Select this to load the preinstalled channel list for the Astra 19.2E satellite. This search mode takes the least time. Select **YES** to load the channel list. Select **NO** to start the channel search.	

Do not connect any storage media to any of the USB ports if you select **PRESET** mode. If you do this, the import process will take much longer. The TV restarts while the preset list is being loaded.

	AUTO SCAN	After you have configured all the settings, press **OK**. The channel search will then start.	

ATV MANUAL TUNING (only in ATV mode)	You can programme individual analogue TV stations manually here.	
	STORAGE TO	Select the channel number for which you want to carry out a search.
	SYSTEM	**BG, I, DK, L/L**.
	CURRENT CH	Select this to select the TV station you want to edit.
	SEARCH	Press ◀ ▶ to start the search
	FINE-TUNE	Press ◀ ▶ to perform fine tuning
	FREQUENCY	Displays the frequency of the current station
	SAVE	Press the **red button** on the remote control to store the TV station found by the search.
DTV MANUAL TUNING (only for DVB-T)	You can programme individual TV stations in DVB-T mode manually here if the input signal is received via the antenna. This option is only available if you have previously selected **DTV** as the input source.	
	VHF/UHF	Select the channel to be searched. Press **OK** to start the search. The signal quality is displayed on the bar underneath.
	DTV	The number of digital TV stations found is displayed.
	RADIO	The number of digital radio stations found is displayed.
	DATA	The number of data channels found is displayed.

DTV MANUAL TUNING (only for DVB-C)	You can programme individual TV stations in DVB-C mode manually here if the input signal is received via cable. This option is only available if you have previously selected **DTV** as the input source.	
	FREQUENCY	Press ◀ ▶ or the number buttons on the remote control to set the search frequency.
	SYMBOL	Set the baud rate. You can also press the **green button** to do this.
	QAM TYPE	Set the modulation. You can also press the **red button** to do this.
	SEARCH	You can start a manual search here.
	SIGNAL	The signal strength is displayed.
	QUALITY	The signal quality is displayed.
	DATA	The number of data channels found is displayed.
	RADIO	The number of digital radio stations found is displayed.
	DTV	The number of digital TV stations found is displayed.

Menu option	Setting	
SATELLITE SETUP (DVB-S only)	**SATELLITE**	Select the satellite for which you want to change the settings or carry out a search.
		EDIT Press the **green** button to edit the selected satellite.
		LONGITUDE DIRECTION — Press the direction buttons ◀ ▶ to select the orbit position **WEST** or **EAST**.
		LONGITUDE ANGLE — Use the number buttons to enter the angle.
		BAND — Select the frequency band **KU** or **C**.
		RENAME — Press the yellow button to change the satellite's name. Press the direction keys to select the character you require. Press **OK** to save the new name.
		ADD Press the **yellow** button to add a new satellite. The setting options are the same here as under **EDIT**.
		DELETE Select the satellite that you want to delete from the list and press the **red** button. Confirm the prompt by pressing **YES**.
		SCAN Press the **blue** button to make the settings for the search.

Menu option	Setting	
	CHANNEL TYPE	Decide which channels you want to search for: **FREE, SCRAMBLE** or **FREE+SCRAMBLE**.
	SERVICE TYPE	Select the channel type. **DTV**: Search for digital TV channels. **RADIO**: Search for digital radio stations. **DTV + RADIO**: Search for digital TV channels and digital radio stations.
	SCAN MODE	Set the search mode. **DEFAULT**: A search will be run on the selected satellite, based on the transponder list saved for this satellite. This will take some time. **NETWORK**: Activate/deactivate the network scan. **BLIND SCAN**: A full search will be run on the selected satellite. This will also take into account new transponders that have not been added to the transponders list. Two searches are performed during a blind scan. The first search identifies the satellite's transponders. The second search locates the TV stations. The blind scan takes the longest.
	When you have finished entering all your settings, press the **OK** button. The search on the selected satellite starts.	

Menu option	Setting	
TRANSPOND-ER	Press the ▸ direction button to move to the **TRANSPONDER** column and then press the ▲ ▾ direction buttons to select the transponder for which you want to start the search. Now press **OK** to mark this transponder with a red tick.	
	ADD Press the **yellow** button to add a new transponder. Enter the required values and confirm with **OK** or press **EXIT** to cancel the process.	
	FREQUEN-CY	Use the number buttons to enter the frequency.
	SYMBOL (KS/S)	Use the number buttons to enter the Baud rate.
	POLARIZA-TION	Press ◂ ▸ to select the polarity.
	DELETE Select the transponder that you want to delete from the list as described above and press the **red** button. Confirm the prompt by pressing **YES**.	
	EDIT The setting options here are the same as for **NEW**.	
	SCAN The setting options here are the same as for **SCAN** under Satellit (satellite).	
SETTING	**LNB POWER**	Set the LNB power here.
	LNB TYPE	Enter the oscillator frequency for your LNB type here. The default setting is **UNIVERSAL**.
	22KHZ	Set the sound here. The default setting is **AUTO**.
	TONE-BURST	If your satellite system requires a tone burst, you can set it to **BURST A** or **B** here.
	DISEQC 1.0/1.1	If you have connected multiple LNBs or a DiSEqC switch to your satellite aerial, set the LNB you require here.

Menu option	Setting		
	MOTOR	If your satellite antenna is controlled by a motor, press ◀ ▶ to select the DiSEqC version. Press the **OK** button to define the position of the antenna.	
	UNICABLE	The following **UNICABLE SETTINGS** can be made here.	
		IF CHANNEL	This is where you specify a particular channel.
		CENTRE FREQ	You can set the centre frequency here.
		PIN	You can set the satellite position here.
		LNB	Select the LNB here.
		VERIFY	Press the **OK** button to accept the settings.
	To start the search, press the **blue** button (**SCAN**) and then confirm with **OK**.		

48

Menu option	Setting
PRO-GRAMME EDIT	You will see the currently stored TV stations here. You can change the following settings for each TV station.
	DELETE
	Select the TV station you want to delete and press the **red button** [**PROGRAM**]. The selected TV station is then deleted.
	DVB-T/C: If the **LCN** function has been activated, the channel number will also be deleted when the channel is deleted. To prevent this, turn off the **LCN** function and perform a new search. You can then delete the TV stations you no longer need. However, the programme numbers are retained.
	FIND (DTV/DVB-S)
	To search for a channel, press the **green button [INTRO]**.
	Press the ▲ ▼ ◀ ▶ buttons to scroll through the character set. Press **OK** to select the character you want.
	MOVE
	Select the TV station and press the **yellow button** [**REPEAT**]. Press the ▲ ▼ buttons to move the TV station to its new position and press the **yellow button** [**REPEAT**] again. The other TV stations will be rearranged accordingly. You can only move a TV station when DVB-C/T is selected if the LCN function is disabled.
	SKIP
	Press the **P+/-** buttons to select the TV station you want to skip when scrolling through the TV station list and press the **blue button** [**A-B**].
	You can still select this TV station via the number buttons.
	FAV
	To save a TV station to the favourites list, select it and press the **FAV** button. Use the buttons on the remote control to call up the favourites list.
CHANNEL LIST	This is where you call up and edit your favourites list. You will find more detailed information about this in the "Channel list" section.
FAVOURITE LIST	Call up your favourites list here.

Menu option	Setting
CI INFORMA-TION (CI+)	If you want to watch subscription channels, you must first register with the channel provider. Once you have registered, you will receive a Conditional Access Module (CI module) and a special card from your provider. You will find information about the settings in the documentation supplied with the module. Install the CI components on your television in the following way: ▸ Switch the television off and pull out the mains plug. ▸ First insert the CI module in the slot on the side of the LCD TV. Then insert the card. Please note: only insert or remove the CI module after you have disconnected the device from the power supply. **PLEASE NOTE!** **Risk of damage!** The CI module or the television could be damaged if you attempt to insert the CI module by force. ▸ The CI module must be inserted correctly: it cannot be inserted if it is the wrong way round. ▸ Connect the television to the power supply, switch it on, and wait for a moment until the card is recognised. ▸ Additional setup steps may be required for some CAM modules, which you can complete in the **CI INFORMATION** menu.
SIGNAL IN-FORMATION	The signal information about the currently set TV station is displayed here. This option is only available in DTV mode.

50

10.4. Setup menu

```
Setup

OSD Language           English
Subtitle Language      English
Audio Language         English
TTX Language           West
Hearing Impared        Off
Aspect Mode            Auto
Blue Screen            On
HDMI EDID              HDMI 1.4
HDMI CEC
VGA Setting
PVR Options            OK
First Time Installation

  ⬌ Adjust     MENU Return
  ⬍ Move       OK  Select      EXIT  Exit
```

Menu option	Setting
OSD LANGUAGE	Select the OSD menu language. It changes immediately.
SUBTITLE LANGUAGE	If the current programme is transmitted with multiple subtitle languages, you can set your preferred language here. The subtitles will then appear in this language.
AUDIO LANGUAGE	If the current programme is transmitted in multiple languages, you can set your preferred language here. The subtitles will then appear in this language.
TTX LANGUAGE	Select the set of characters here for Teletext: **WEST, EAST, RUSSIAN, ARABIC** or **FARSI**.
HEARING IMPAIRED	If the TV station broadcasts special audio signals for the hearing impaired, you can change the setting to **ON** to receive these signals. This option is only available in DTV mode.
ASPECT MODE	Set the picture format here. This function corresponds to the **SIZE** button.
BLUE SCREEN	If the LCD TV is not receiving a signal, the screen will turn blue rather than showing "snow" or a black background.
HDMI EDID (only in HDMI mode)	Select HDMI version **HDMI 1.4** or **HDMI 2.0** here.

Menu option	Setting	
HDMI CEC (Consumer Electronics Control)	Enable this function to enable all devices that are connected via HDMI to communicate with each other. In this way, you can, for example, control all the devices in an HDMI network using only one remote control. All the connected devices must support CEC. Depending on the type of device, this may lead to functional limitations which cannot be changed.	
	HDMI CEC	Activate/deactivate the CEC function
	DEVICE POWER OFF	(Switch the device off) Specify whether the device connected to the television also goes into standby mode when the television goes into standby mode.
	TV POWER ON	(Switch on the TV) Specify whether the TV also switches on when the device connected to it is switched on.
	HDMI ARC	The Audio Return Channel is a useful feature if the TV is connected to an AV receiver or a soundbar with ARC functionality. ARC not only enables audio signals to be received via HDMI, but also sends them via the same cable from the TV to an ARC-enabled device. ARC only functions over an **HDMI3** connection
	DEVICE LIST	A list of the devices connected to the **HDMI1-3** connection is displayed here.
	DEVICE MENU	Accessing the main menu of the connected device (if this feature is supported by the device).
VGA SETTING	When you connect a PC to the TV, this is where you make the necessary settings.	

Menu option	Setting	
PVR OPTIONS (DVB-S and DTV only)	**RECORDED LIST**	All the recordings on your data medium are displayed here. You can now edit, sort or delete them here.
	RECORD	This is where you can programme recordings. Press the arrow buttons ◀ ▶ ▲ ▼ to select a TV station and then specify the **START TIME** and **END TIME** of the recording (by **HOUR**, **MINUTE**, **MONTH** and **DATE** in each case). Then, under **MODE**, specify whether the recording is to be created **ONCE**, **EVERY DAY** or **WEEKLY**. Then press **OK** to save the programming settings.
	REMIND	This is where you can programme reminders. Press the arrow buttons ◀ ▶ ▲ ▼ to select a TV station and then specify the reminder time (**HOUR**, **MINUTE**, **MONTH** and **DATE** in each case). Then, under **MODE**, specify whether the reminder is to be issued **ONCE**, **EVERY DAY** or **WEEKLY**. Then press **OK** to save the programming settings.
	SCHEDULE LIST	The reminders and recordings you have programmed are displayed here. You can now edit, sort or delete them here.
	PVR FILE SYSTEM	**SELECT DISC** — Open the list of all connected USB storage media. Select the required USB storage medium here.
		TIME SHIFT SIZE — The time shift size, according to which the PVR file system check was performed, is displayed here.

Menu option	Setting	
	FORMAT START	Use this option to format the selected USB storage medium. Press the **OK** button to start formatting. Answer the prompt with **YES** to continue formatting or **NO** (no) to cancel formatting.
	SPEED CHECK	After the speed check has been performed or formatting is finished, the transfer speed is displayed here.
FIRST TIME INSTALLATION	You can access the menu for the initial installation here.	
RESTORE FACTORY DEFAULT	Here you can reset the device to its factory settings.	
SOFTWARE UPDATE (USB)	You can search for the latest software for the television here and update it. The update takes a few minutes. To prevent irreparable damage to the device, do not interrupt the update process.	
SOFTWARE VERSION	Displays the current software version.	

10.5. Time menu

Time

Clock 10:39

Sleep Timer	Off
Auto Standby	4 Hours
Time Zone	Berlin GMT+1
DST	On
OSD Active Time	15 S

| ⟷ Adjust | MENU Return | |
| ⭥ Move | OK Select | EXIT Exit |
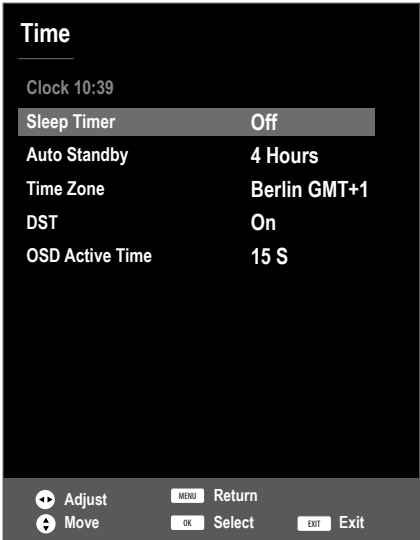
Menu option	Setting
CLOCK	Time display. You cannot set the time manually. This option is only available in DTV mode.
SLEEP TIMER	Select a time after which the device will switch off automatically. Select **OFF** to deactivate this function.
AUTO STANDBY	Set a time after which the LCD TV will switch off automatically if no operations have been performed on the operating panel or the remote control within the defined period of time. This function is designed to help protect the environment.
TIME ZONE	You can set the time zone here. This option is only available in DTV mode.
DST	Activate/deactivate the Sommerzeit (summertime) setting.
OSD ACTIVE TIME	Here you can set the time after which the OSD menu closes automatically.

10.6. Lock menu

```
Lock

Change Password
System Lock          Off
Channel Lock
Parental Guide       Off
Key Lock             Off
Hotel Setting
Clear Lock




  ⬌ Adjust      MENU  Return
  ⬍ Move        OK    Select      EXIT  Exit
```

Menu option	Setting	
To do this, you will need to enter the password. Factory setting: **0000**.		
CHANGE PASSWORD	An input field for entering passwords will appear.	
	PLEASE EN-TER NEW PASSWORD	Enter a new four-digit password.
	CONFIRM NEW PASS-WORD	Enter the new password again. The new password is saved.
	Note down the new password. The password is not reset when you restore the factory settings. If you forget the password, enter the master password **8899**.	
SYSTEM LOCK	Select this option to enable the **CHANNEL LOCK, PA-RENTAL GUIDE** and **KEY LOCK** settings.	
CHANNEL LOCK	Define here which TV station should be locked.	
PARENTAL GUIDE	Here you can select the age that sets the parental control level. This option is only available in DTV mode.	

KEY LOCK	You can switch the button lock for the operating elements on the LCD TV on or off here. The LCD TV can then only be operated via the remote control.
HOTEL SETTING	In hotel mode, you can make various settings which restrict the functionality and operation of the device.
CLEAR LOCK	This option resets all the previously selected settings.

10.7. Source menu

Source

| Satellite |
| DTV |
| ATV |
| AV |
| YPBPR |
| SCART |
| HDMI 1 |
| HDMI 2 |
| HDMI 3 |
| VGA |
| USB |
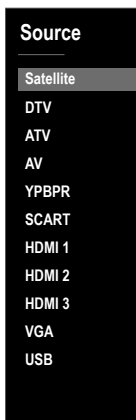
You can use the Quelle (source) menu to select the input source, as an alternative to the **SOURCE** button.

10.8. PVR recording

Before starting a PVR recording, make sure that you have connected a USB storage medium to one of the USB sockets and that you have made all the required settings under **SETUP > PVR OPTIONS**.

▶ In TV mode, press the ● button. The currently selected program starts being recorded automatically:

You can select these options during the recording:

– ■ : Stops the recording
– ▶ II : Enables the timeshift recording function (see "Timeshift recording function" section).

▶ To stop recording, press ■ . Confirm the prompt by pressing **YES**. The recording now appears under **SETUP > PVR OPTIONS > RECORDED LIST**.

You can select these options in the recording list:

– **Löschen** (delete) (red button): deletes the selected recording
– **Aufsteigend/Absteigend** (ascending/descending) (green button): sorts the recorded programmes in ascending or descending sequence
– **Capture** (blue button): creates captures of the recording when it is played back
– **Capture löschen** (delete capture) (yellow button): deletes the existing capture

▶ Select the recording you want from the **RECORDED LIST** and press **OK** to play it.

The following options can only be selected when playing a recording:

– ▶ II : Pause playback
– ◀◀ / ▶▶ : Fast forward/rewind
– I◀◀/▶▶I: Show previous/next recording
– ■ : Stop playback

You can open the PVR recordings list by pressing the **INDEX** button. Press **OK** to play recordings or the **red button** to delete existing recordings.

10.8.1. Timeshift recording function

You can also pause the current programme and then resume playing it later.

▶ In TV mode, press the ● button. The currently selected program starts being recorded automatically.

You can select these options during the recording:

– ■ : Stops the recording
– ▶ II : Enables the Timeshift recording function

▶ Then press the ▶ II button to access Timeshift mode. Press ▶ II again. Timeshift recording now starts in the background, and the current programme is interrupted.

▶ If you press the ▶ II button again, the current programme continues at the corresponding later time, because the timeshift recording is being played.

The following options can only be selected when playing a recording:

- ▶ II : Pause playback
- ◀◀ / ▶▶ : Fast forward/rewind
- I◀◀ / ▶▶I : Back/forward frame by frame
- ■ : Stop playback

▶ To exit timeshift mode, press ■ . Confirm the prompt by pressing **YES**. The current programme is then shown in real time again.

▶ The started PVR recording continues running. To stop this, press ■ again. Confirm the prompt by pressing **YES**.

If you are using the Timeshift recording function, a normal PVR recording also always runs in the background, and this is then displayed in the PVR recording list.

10.9. Channel list

Press the **OK** button when the TV is switched on to call up the **CHANNEL LIST** (station list). The following options are available here:

Button	Entry	Function
▲ ▼	**MOVE**	You can use these buttons to move up/down through the station list. Press the **OK** button to switch to the currently selected TV station. Press the **P+/-** buttons to navigate through the station list in blocks of 10.
Red button **[PRO-GRAM]** (only if **ALL** TV stations are displayed)	**FIND**	Use this option to search for a channel with the keypad. Enter the name of the station by using the direction keys to select a character and then press **OK** to confirm each character. As soon as a character is entered, all TV stations that start with this character are displayed automatically. Then press **ENTER** and confirm your selection with **OK**. The device now switches to the first TV station found in the selection.

Green button [INTRO] (Only if ALL TV stations are displayed (only available for satellite))	SORT	You can use this option to define how the channel list is sorted: **ALL**: The TV stations are sorted according to the default settings. **SORT BY FREQ**: The TV stations are sorted by frequency. **SORT BY ENCRYPT**: Encrypted and free TV stations are sorted separately from one another. **SORT BY SERVICE NAME**: The TV stations are sorted by name. **SORT BY SATELLITE NAME**: The TV stations are sorted by their satellite name.
P+/P-	PAGE UP/ DOWN	Use these buttons to move through the individual pages of the channel list in blocks of 12.
◄ ►	SELECT	Available for DTV and satellite – **ALL**: all TV stations are show – **DTV**: only digital TV stations are shown – **HD**: only HD TV stations are shown – **RADIO**: only radio stations are shown – **DATA**): only data is shown – **FREE**: only freely available TV stations are shown – **SCRAMBLED**: only encrypted TV stations are shown – **SATELLITE**: All TV stations that are transmitted by the selected satellite are listed.

11. Media Players

If you connect a USB storage medium to the LCD TV, you can play back the photos, music, videos or text stored on it. The supported formats are listed in the technical specifications at the end of these instructions.

Information about using USB

▸ Certain types of USB devices (MP3 player) may not be compatible with this LCD TV.

▸ Connect the USB device directly.
▸ Do not use a separate cable, because this may cause compatibility problems.
▸ Never disconnect the USB device while a file is being played.

PLEASE NOTE!
Risk of damage!

Connecting and disconnecting USB devices quickly and repeatedly is dangerous and can physically damage the USB device and the LCD TV itself.

▸ Do not plug in and then unplug the USB device repeatedly in quick succession.

11.1. Accessing the media player

▸ Connect the USB data medium to the USB port on the side of the device.
▸ Press the **SOURCE** button (on the remote control or the device) and then use the ▲ ▾ buttons to select the **USB** source.
▸ Confirm with **OK**.
▸ Alternatively, press the **MEDIA** button on the remote control to open the media player.

11.2. Main menu for the media player

The media player's main menu appears as soon as you have accessed the media player via USB as described above.

▶ The following selection options are available:
  – **PHOTOS** – for playing back photo files
  – **MUSIC** – for playing back music files
  – **MOVIE** – for playing back video files
  – **TEXT** – for playing back text files
▶ Press the ◀ and ▶ buttons to select a menu and confirm the selection with **OK**.
▶ Now select the source from which you want to play the file (e.g. USB stick or hard drive).

To exit the Media Player, press the **EXIT** button several times to return to the previously used source.

11.3. Displaying photos

If you select **PHOTOS** in the main menu, the available image files are filtered and displayed on the screen.

▶ If the storage medium has several folders, press the ◀ ▶ ▲ ▼ buttons to first select a folder and then press **OK** to open it.
▶ Press the ▶ II button to display all the files in a slide show. To play back only one file, select the file you want with the direction buttons and then press **OK**. Then press ▶ II to start playing back the file.
▶ Press ◀ ▶ ▲ ▼ to select further options. Confirm each option by pressing **OK**. Press the **INFO** button to display/hide the Options menu.
  – ◄◄ ►►: Display previous/next photo.
  – ▶ II : Start/pause the slide show for all photos.
  – ■ : Stop the slide show.
  – ⟳: Rotates the selected image by 90 degrees anticlockwise/clockwise
  – ⊕⊖ : Enlarges/reduces the size of the displayed image
  – ✛: If you have previously used the zoom function to enlarge the display, you can now use the direction buttons ◀ ▶ ▲ ▼ to move to the sections that are not visible.
  – ✂: Repeat the slide show
  – ♫ : Switch the background music on/off
  – ☰ : Displays the playlist for the photos
  – i : Shows information about the displayed photo
▶ The media buttons on the remote control can also be used for playing back the files.
▶ Press the **EXIT** button to return to the previous menu.

11.4. Playing back music

If you select **MUSIC** in the main menu, the available music files are filtered and displayed on the screen.

▶ If the storage medium has several folders, press the ◀ ▶ ▲ ▼ buttons to first select a folder and then press **OK** to open it.

▶ Press the ▶ ❚❚ button to play back all the files, one after the other. To play back only one file, select the file you want with the direction buttons and then press **OK**. Then press ▶ ❚❚ to start playing back the file.

▶ Press ◀ ▶ ▲ ▼ to select further options. Confirm each option by pressing **OK**. Press the **INFO** button to display/hide the Options menu.

   – ◀◀ ▶▶ : Play previous/next track
   – ▶ ❚❚ : Start/pause playback of the music track
   – ∎ : Stop playback of the music track
   – ◀◀ ▶▶ : Fast forward/rewind
   – ✂ : Repeat the tracks
   – ≡ : Displays the playlist for the music tracks
   – i : Shows information on the displayed track

▶ The media buttons on the remote control can also be used for playing back the files.

▶ Press the **EXIT** button to return to the previous menu.

11.5. Playing back videos

If you select **MOVIE** in the main menu, the available video files are filtered and displayed on the screen.

▶ If the storage medium has several folders, press the ◀ ▶ ▲ ▼ buttons to first select a folder and then press **OK** to open it.

▶ Press the ▶ II button to play back all the files, one after the other. To play back only one file, select the file you want with the direction buttons and then press **OK**. Then press ▶ II to start playing back the file.

▶ Press ◀ ▶ ▲ ▼ to select further options. Confirm each option by pressing **OK**. Press the **INFO** button to display/hide the Options menu.

– ◀◀ ▶▶: Display previous/next video
– ▶ II : Start/pause playback of the video.
– ■ : Stop playback of the video
– ◀◀ ▶▶ : Fast forward/rewind
– ⊘: Start the video at a particular time
– ⤬: Repeat the video.
– ≡ : Displays the playlist for the videos
– i : Shows information about the displayed video file

▶ The media buttons on the remote control can also be used for playing back the files.

▶ Press the **EXIT** button to return to the previous menu.

11.6. Displaying text

If you select **TEXT** in the main menu, the available text files are filtered and displayed on the screen.

▶ If the storage medium has several folders, press the ◀ ▶ ▲ ▼ buttons to first select a folder and then press **OK** to open it.

▶ Use the ◀ ▶ ▲ ▼ buttons to select the text you want to display. Press **OK** to select the text and them press ▶ II to display it.

▶ Press ◀ ▶ ▲ ▼ to select further options. Confirm each option by pressing **OK**. Press the **INFO** button to display/hide the Options menu.

– ◀◀ ▶▶: Display previous page/next page
– ■ : Stop display
– ✿ : Move to a specific page in the text
– ♪ : Switch the background music on/off
– ≡ : Display the playlist for text documents
– i : Shows information about the displayed text file

▶ Press the **EXIT** button to return to the previous menu.

12. EPG: Programme Guide

The **EPG** button opens the "electronic programme guide".

You will see the current programme and the next programme for the available TV stations in the table.

▸ Press the **EPG** button to open the programme guide.

▸ Press ▲ ▼ to select a TV station.

▸ Scroll through the programmes by pressing ▲ ▼ or ◄ ▶ .

The programme information displayed is created by the broadcaster. If no programme information is displayed, this does not mean that your LCD TV is faulty.

The next table shows the options for the **PROGRAM GUIDE**:

Button	Entry	Function
Red button **[PRO-GRAM]**	**RECORD**	This is where you can programme recordings. Press the ◄ ▶ ▲ ▼ direction buttons to select a TV station and then specify the **START TIME** and **END TIME** of the recording (by **HOUR**, **MINUTE**, **MONTH** and **DAY** in each case). Then, under **MODE**, specify whether the recording is to be created **ONCE**, **EVERY DAY** or **WEEKLY**. Then press **OK** to save the programming settings. You now see the planned recording in the list under **SETUP > PVR OPTIONS > SCHEDULE LIST**. These settings are the same as those you can make under **SETUP > PVR OPTIONS > RECORD**.
Green button **[INTRO]**	**PREV**	The programme guide for the previous day is displayed. This is only possible up to the current day. Programmes from later in the past are not displayed here.
Yellow button **[REPEAT]**	**NEXT**	The programme guide for the next day is displayed.

65

Blue button [A-B]	REMIND	This is where you can programme reminders. Press the ◀ ▶ ▲ ▼ direction buttons to select a TV station and then specify the reminder time (**HOUR**, **MINUTE**, **MONTH** and **DAY** in each case). Then, under **MODE** (mode), specify whether the reminder is to be issued **ONCE**, **DAILY** or **WEEKLY**. Then press **OK** to save the programming settings. You now see the planned reminders in the list under **OPTION > PVR OPTIONS > SCHEDULE LIST**. ℹ These settings are the same as those you can make under **OPTION > PVR OPTIONS > REMIND** (configuration > PVR options > reminder).
INFO	**INFO**	Displays a detailed description of the selected programme (if available). Press the button again to hide the description.
▲ ▼ ◀ ▶	**MOVE**	You move through the programme guide using the direction buttons.
EXIT	**EXIT**	Exit the programme guide.

13. Troubleshooting

Problem	Corrective action
There is no picture and no sound.	• Check if the power cable is inserted in the socket properly. • Check if the signal reception is set to **TV**.
There is no AV picture.	• Check to ensure that the contrast and brightness settings are correct. • Check to ensure that all external devices have been connected properly. • Check to ensure that 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. Do this by pressing the button with the crossed out loudspeaker symbol on the top left of the remote control. • Check whether headphones are connected. • If you have connected a satellite receiver or DVD player to the television via a SCART cable, check whether the cable has been connected to the SCART socket properly.
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 contrast and brightness settings.
The picture is not sharp.	• The reception might be poor. • Check if the antenna is connected properly. • Check the sharpness and noise reduction settings in the **PICTURE** menu.
There is a double/triple picture.	• Check if the antenna is aligned properly. • Waves might be reflected off buildings or hills.
The picture is pixelated.	• 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.

Problem	Corrective action
There are stripes on the screen 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 device as far away as possible from the device that might be causing the interference.
The control panel on the device does not work	• The child lock might be on.
The remote control is not working.	• Check if the batteries are fully charged and have been inserted the right way round. • Ensure the sensor field is not exposed to strong light.
TV switches off	• Check whether the automatic TV switch-off function is activated under **TIME**.

Do you need more help?

If the suggestions in the previous sections did not solve your problem, please contact us. To make it easier for us to help you, please have the following information to hand:

• 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 us with your customer number if you have one.

13.1. LCD TV pixel faults

Despite the state-of-the-art production methods, in rare cases there may be individual or multiple pixel drop-outs (dead pixels) due to the highly complex technology.

For active matrix TFTs with a resolution of **3840 x 2160 pixels**, which are each made up of three sub-pixels (red, green, blue), there are a total of **approx. 24.9 million** control elements in use. Occasionally pixels or individual sub-pixels can fail or become incorrectly controlled because of this very high number of transistors and the extremely complex manufacturing process used in this context.

5 Pixel

5 Pixel

Rows

Pixel

blue

green
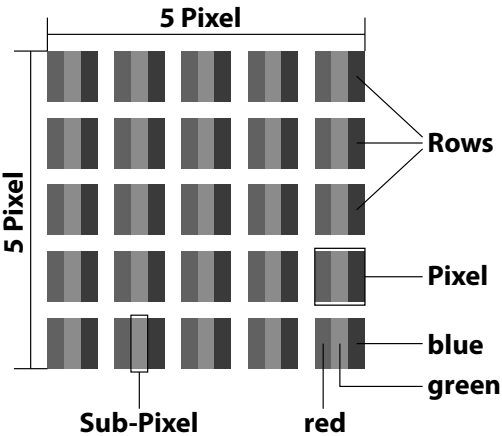
Sub-Pixel   red

Pixel fault class	Defect type 1 Continuously lit pixel	Defect type 2 Continuously black pixel	Defect type 3 Defective sub-pixel	
			lit	black
0	0	0	0	0
I	1	1	2 1 0	1 3 5
II	2	2	5 5-n* 0	0 2xn* 10
III	5	15	50 50-n* 0	0 2xn* 100
IV	50	150	500 500-n* 0	0 2xn* 1000

n*=1.5

The permitted number of defects for every type named above in each class of pixel defect refers to one million pixels and must be converted accordingly to match the physical resolution of the display.

Your device complies with the European ISO 9241-307 Class II standard (pixel fault class).

14. Cleaning

DANGER!
Risk of electric shock!
There is a risk of death due to an electric shock when the housing is open and you touch parts inside the device!

▸ Do not open the housing of the device. It does not contain any parts requiring maintenance. Always unplug the device and disconnect all cables before cleaning!

You can increase the lifespan of your LCD TV by taking the following measures:

- In order to protect the television from scratches, protective film has been applied to the high-gloss finish. Remove the film after you have set up the TV correctly.
- If the high-gloss finish becomes dirty, wipe off the dust first. Then wipe down gently with a cleaning cloth. If you do not wipe off the dust first, or wipe the high-gloss finish too vigorously you could scratch the high-gloss finish.
- Do not use solvents, corrosive or gaseous cleaning agents.
- Clean the screen with a soft, lint-free cloth.
- Ensure that no water droplets remain on the LCD TV. Water can cause permanent discolouration.
- In order to avoid damage to the device, water must not penetrate into the interior of the device under any circumstances.
- Do not place the screen in strong sunlight or near ultraviolet light.
- Store the packaging material in a safe place and only use this packaging to transport the LCD TV.

15. Storage when not in use

If the TV is going to be out of use for an extended period of time, store it in a cool, dry place and make sure that it is protected against dust and extreme fluctuations in temperature. Remove all connections and take the batteries out of the remote control in advance.

16. Disposal

Packaging

The product has been packaged to protect it from damage in transit. The packaging is made of materials that can be recycled in an environmentally friendly manner.

Device

The adjacent symbol showing a crossed out wheelie bin means that the device is subject to Directive 2012/19/EU. Old devices may not be disposed of with normal household waste. If you can no longer use your electrical device, dispose of it in accordance with the legal provisions applicable in your area. This involves separating the materials in the device for the purpose of recycling and minimising the environmental impact.

Take old devices to a collection point for electrical scrap or a recycling centre. Before doing so, remove the batteries from the device and take them to a separate collection point for used batteries.

Contact your local waste disposal company or your local authority for more information on this subject.

Batteries

Do not dispose of used batteries with household waste. Batteries must be disposed of correctly. Retailers that sell batteries and local collection points provide containers in which you can dispose of them.

Contact your local waste disposal company or your local authority for more information on this subject.

17. Technical specifications

LCD TV P15001 (MD 31700)	**MEDION**®
Device name	P15001 (MD 31700)
Screen size	125.7 cm (50") LCD; 16:9 display
Power consumption:	Max. 135 W
Power consumption in stand-by mode	< 0,50 W
Speaker output	2 x 8 W RMS
Physical resolution	3840 x 2160
TV system	Pal B/G, D/K, I; Secam L,L´
Channel positions	199 (ATV), 6000 (DTV)

LCD TV P15501 (MD 31701)	**MEDION**®
Device name	P15501 (MD 31701)
Screen size	138.8 cm (55") LCD; 16:9 display
Power consumption:	Max. 150 W
Power consumption in stand-by mode	< 0,50 W
Speaker output	2 x 8 W RMS
Physical resolution	3840 x 2160
TV system	Pal B/G, D/K, I; Secam L,L´
Channel positions	199 (ATV), 6000 (DTV)

LCD TV P16502 (MD 31702)	**MEDION**®
Device name	P16502 (MD 31702)
Screen size	163.8 cm (65") LCD; 16:9 display
Power consumption:	Max. 240 W
Power consumption in stand-by mode	< 0,50 W
Speaker output	2 x 8 W RMS
Physical resolution	3840 x 2160
TV system	Pal B/G, D/K, I; Secam L,L´
Channel positions	199 (ATV), 6000 (DTV)

Channels
VHF (Band I/III)
UHF (BAND U)
HYPERBAND
CABLE TV (S1-S20) / (S21-S41)
DVB-T / DVB-T2 HD (H.265)
DVB-C
DVB-S2 (H.265, HEVC)

Connections	
	Antenna connection (analogue TV, DVB-T or DVB-C)
	Satellite connection
	2 x USB connection (USB 2.0)
	Common Interface (CI+) slot
Video	
	3 x HDMI® 2.0 with HDCP 2.2 decoding
	1 x VGA (15-pin D-Sub)
	AV In (3.5 mm jack to cinch adapter)
	YPbPr In (YUV) (3.5 mm jack to cinch adapter)
Audio	
	Stereo Audio In for AV, YPbPr (YUV) (3.5 mm jack to cinch adapter)
	PC Audio In (3.5 mm jack)
	Headphone output (3.5 mm jack)
	Digital Audio Out (SPDIF) (coax.)

Drives/storage media	
Drives	USB, Common Interface
Supported formats via USB[2]	Photo: BMP, JPG, JPEG, PNG
	Music: MP3, FLAC, OGG
	Film: AVI, MKV, MP4, MPEG 1/2/4, MOV, TS, VOB, Xvid, 3GP
	Text: TXT
Capacities	USB max. 1 TB

Remote control	
Transmission type	Infrared
LED classification	1
Battery type	2 x 1.5V AAA

Ambient temperatures	
Permissible ambient temperature	+5°C to +35°C
Permissible relative humidity	20% – 85%

Dimensions/weight P15001 (MD 31700)	
Dimensions without stand (W x H x D)	Approx. 1132 x 665 x 98 mm
Dimensions with stand (W x H x D)	Approx. 1132 x 720 x 270 mm
Weight without stand	Approx. 9.4 kg
Weight with stand	Approx. 9.6 kg
Mounting on the wall	Vesa standard, hole spacing 400 x 200 mm[3]

Dimensions/weight P15501 (MD 31701)	
Dimensions without stand (W x H x D)	Approx. 1253 x 734 x 100 mm
Dimensions with stand (W x H x D)	Approx. 1253 x 785 x 270 mm
Weight without stand	Approx. 12.6 kg
Weight with stand	Approx. 12.8 kg
Mounting on the wall	Vesa standard, hole spacing 400 x 200 mm[3]

Dimensions/weight P16502 (MD 31702)	
Dimensions without stand (W x H x D)	Approx. 1466 x 853 x 89 mm
Dimensions with stand (W x H x D)	Approx. 1466 x 907 x 287 mm
Weight without stand	Approx. 17.8 kg
Weight with stand	Approx. 18.0 kg
Mounting on the wall	Vesa standard, hole spacing 600 x 300 mm[3]

---

[3] The playback of all formats cannot be guaranteed due to the large number of different codecs.
[4] Wall mount not supplied. When mounting the device, make sure that you use M6 screws. The length of the screws corresponds to the thickness of the wall mount plus 10 mm.

18. Product Data Sheet

in accordance with Directive 1062/2010

Trademark	MEDION®		
MSN no.	30029700	30029682	30029683
Model no.	MD 31700	MD 31701	MD 31702
Energy efficiency class	A	A	A
Visible screen size (diagonal size, approx.)	125,7 cm (50")	138,8 cm (55")	163,8 cm (65")
Average power consumption when switched on (in watts)	90	108	153
Annual power consumption (kWh/year)	131	159	223
Standby power consumption (in watts)	0.36	0.32	0.30
Power consumption when switched off (in watts)	---	---	---
Display resolution (in pixels)	3,840 x 2,160	3,840 x 2,160	3,840 x 2,160

19. Service information

Please contact our Customer Service team if your device ever stops working the way you want or expect it to. There are several ways for you to contact us:

- In our Service Community, you can meet other users, as well as our staff, and you can exchange your experiences and pass on your knowledge there.
  You will find our Service Community at http://community.medion.com.
- Alternatively, use our contact form at www.medion.com/contact.
- You can also contact our Service team via our hotline or by post.

Opening times	Hotline number UK
Mon – Fri: 08.00 – 20.00 Sat – Sun: 10.00 – 16.00	☎ 0333 3213106
	Hotline number Ireland
	☎ 1 800 992508
Service address	
MEDION Electronics Ltd.	
120 Faraday Park, Faraday Road, Dorcan	
Swindon SN3 5JF, Wiltshire	
United Kingdom	

You can download this and many other sets of operating instructions from our service portal at www.medion.com/gb/service/start/.
You will also find drivers and other software for a wide range of devices there.
You can also scan the QR code on the side of the screen, to download the operating instructions onto your mobile device from the service portal.

20. Legal Notice

Copyright © 2020
Date: 19. June 2020
All rights reserved.
These operating instructions are protected by copyright.
Mechanical, electronic and any other forms of reproduction are prohibited without the written permission of the manufacturer.

Copyright is owned by the distributing company:

MEDION AG
Am Zehnthof 77
45307 Essen
Germany

Please note that you cannot use the address above for returns. Please always contact our Customer Service team first.

21. Privacy statement

Dear customer,
We wish to inform you that we, MEDION AG, Am Zehnthof 77, 45307 Essen, Germany process your personal data as a data controller.
For matters regarding data protection, we are supported by our company data protection officer who can be contacted at MEDION AG, Datenschutz, Am Zehnthof 77, D – 45307 Essen; datenschutz@medion.com. We process your data for the purpose of warranty processing and associated processes (e.g. repairs) and therefore rely on processing your data for the sales contract concluded with us.
Your data will be provided to repairers contracted to us for the purpose of warranty processing and associated processes. We generally store your personal data for a period of three years in order to fulfil your legal warranty rights.
You have the right to be informed of the personal data concerned as well as the right to rectification, deletion, restriction of processing, the right to object to processing, as well as the right to data portability.
In case of access and cancellation rights, restrictions apply according to S 34 and S 35 of BDSG (Federal Data Protection Act) (Art. 23 GDPR). In addition, there is a right of appeal to a competent data protection supervisory authority (Article 77 GDPR in conjunction with S 19 BDSG). The state official for data protection and freedom of information for MEDION AG is Nordrhein Westfalen, P box 200444, 40212 Düsseldorf, Germany. www.ldi.nrw.de.
The processing of your data is necessary for warranty processing: it is not possible to process the warranty without the provision of the required data.

22. Index