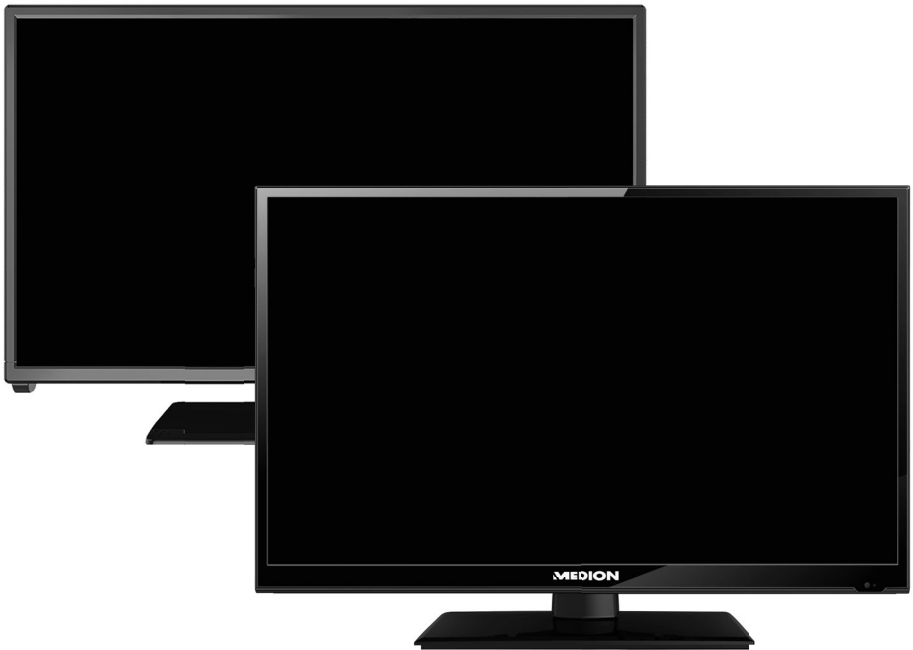


MEDION®

User Manual



LED-Backlight-TV

MEDION® LIFE®

E11681 (MD 21481) / E11682 (MD 21482) / E12283 (MD 21483)

Contents

1.	Information about these operating instructions	4
1.1.	Explanation of symbols.....	4
1.2.	Proper use.....	5
2.	Package contents.....	6
3.	Safety instructions	7
3.1.	Operating safety.....	7
3.2.	Set-up location	9
3.3.	Repairs.....	11
3.4.	Environmental temperature.....	11
3.5.	Safety when connecting.....	12
3.6.	Handling batteries	13
4.	EU - Declaration of conformity	15
4.1.	DVD player (optional)	15
5.	Device overview.....	16
5.1.	Front.....	16
5.2.	Rear	17
5.3.	Remote control	18
6.	Getting started	21
6.1.	Unpacking.....	21
6.2.	Mounting	22
6.3.	Inserting the batteries in the remote control	23
6.4.	Connecting the antenna	23
6.5.	Common Interface (CI).....	24
6.6.	Connecting the mains adapter	24
6.7.	Switching the LCD TV on and off.....	25
6.8.	Channel search after switching on for the first time	25
7.	Multimedia connections	29
7.1.	Use of the multimedia connections	29
8.	Operation	32
8.1.	Channel selection	32
8.2.	Sound settings	32
8.3.	Screen settings.....	32
8.4.	Displaying channel information	33
8.5.	Opening the favourites list.....	33
8.6.	Selecting the source.....	34
9.	Teletext.....	35
9.1.	Using the teletext.....	35
9.2.	Selecting a page	35
9.3.	Useful teletext functions	36
10.	Menu navigation.....	37

10.1.	Channel menu.....	38
10.2.	Picture menu.....	48
10.3.	Sound menu	49
10.4.	Time menu.....	50
10.5.	Lock menu	51
10.6.	Option menu	52
11.	Media player	56
11.1.	Accessing the media player.....	56
11.2.	Main menu for the media player	56
11.3.	Displaying photos.....	57
11.4.	Playing back music	58
11.5.	Playing back videos.....	59
11.6.	Displaying text	59
12.	EPG – programme guide	60
13.	DVD mode (optional)	61
13.1.	Switching between TV and DVD modes.....	61
13.2.	Inserting a DVD.....	61
13.3.	Button functions.....	61
13.4.	Navigating MP3 and JPEG data media	65
13.5.	SETUP menu in DVD mode.....	66
14.	Troubleshooting	70
14.1.	Do you need more help?.....	71
14.2.	LCD TV pixel faults	72
15.	Cleaning	73
16.	Storage when not in use.....	73
17.	Disposal	74
18.	Technical specifications	75
19.	Product Data Sheet.....	79
20.	Service information	80
21.	Legal Notice	81
22.	Index	83

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!
	Additional information on using the device!
	NOTICE! Please follow the instructions in the operating instructions!

	<p>WARNING! Warning of risk of electric shock!</p>
	<p>WARNING! Warning: danger due to loud volume!</p>
<ul style="list-style-type: none"> • 	<p>Bullet point/information on steps during operation</p>
<p>▶</p>	<p>Instructions to be carried out</p>
	<p>Declaration of conformity (see section “EU - Declaration of conformity”): Products that feature this symbol meet the requirements of the EC directives.</p>
	<p>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.</p>

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:

- LED backlight TV
- Remote control (RC1244) including 2 batteries (1.5 V AAA)
- Mains adapter with lead, model: SUN-1200300B1
- Car adaptor, model: BHSC-16005306, Changzhou Shincobroad Electronic Co., Ltd.
- DVB-T antenna
- YUV adaptor
- AV adapter
- Stand 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 abilities 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 220–240 V~ 50 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 happens, 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 correctly 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 batteries 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. EU - Declaration of conformity

MEDION AG hereby declares that this product conforms with the essential requirements and the remaining relevant regulations:

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

You can download the complete EU Declaration of Conformity from www.medion.com/conformity.



4.1. DVD player (optional)

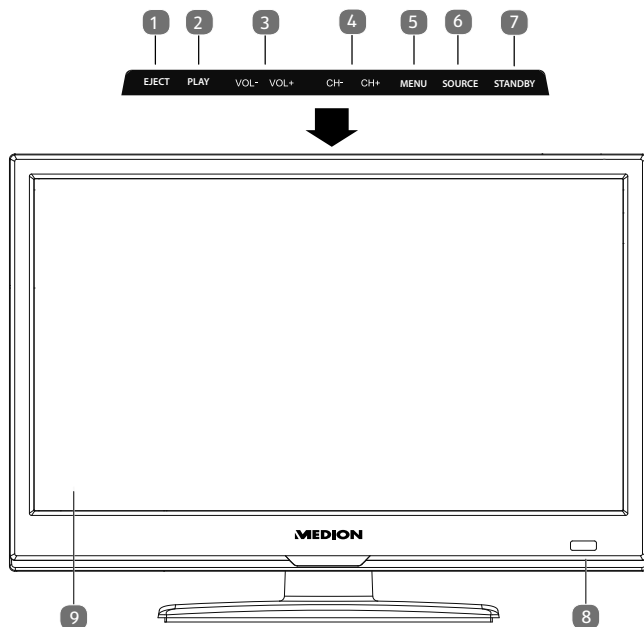
The DVD player is a Class 1 laser product. The device has a safety system that prevents dangerous laser rays from escaping during normal use. To avoid eye injuries, never tamper with or damage the safety system of the device.



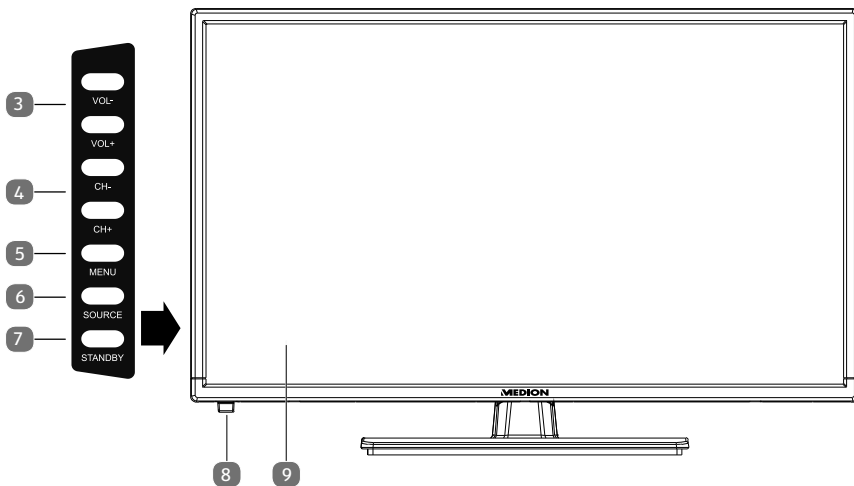
5. Device overview

5.1. Front

MD21481 / MD21482:

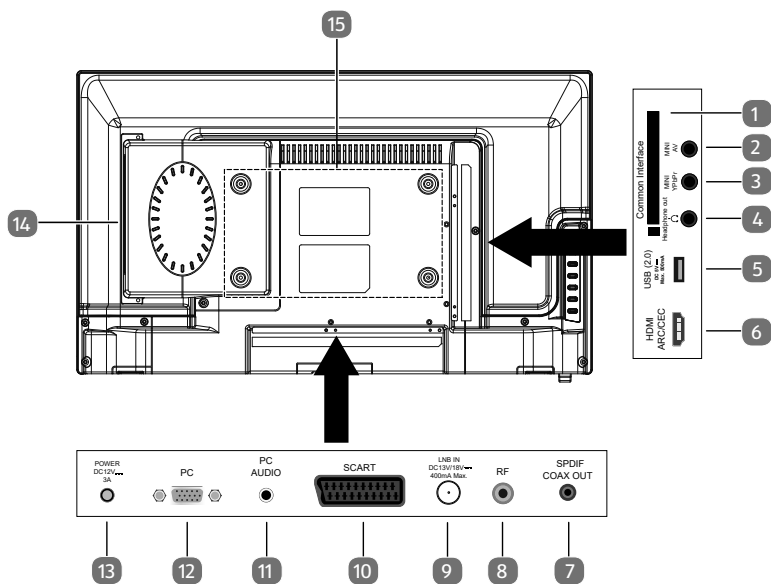


MD21483:



- 1) **EJECT:** DVD: Eject button (MD21482)
- 2) **PLAY:** DVD: Start/pause playback (MD21482)
- 3) **VOL+/VOL-:** Set the volume or navigate in the menu
- 4) **CH+/CH-:** Select a program or navigate in the menu
- 5) **MENU:** Call up the on-screen menu to make settings on your device
- 6) **SOURCE:** Change the input source
- 7) **STANDBY:** Standby button: Switch the device on or into standby mode
- 8) **Operating light:** Shines red when the device is in standby mode.
Shines blue when the device is switched on.
- 9) **Infrared sensor:** Reception field for the infrared remote control signals.
- 9) LCD screen

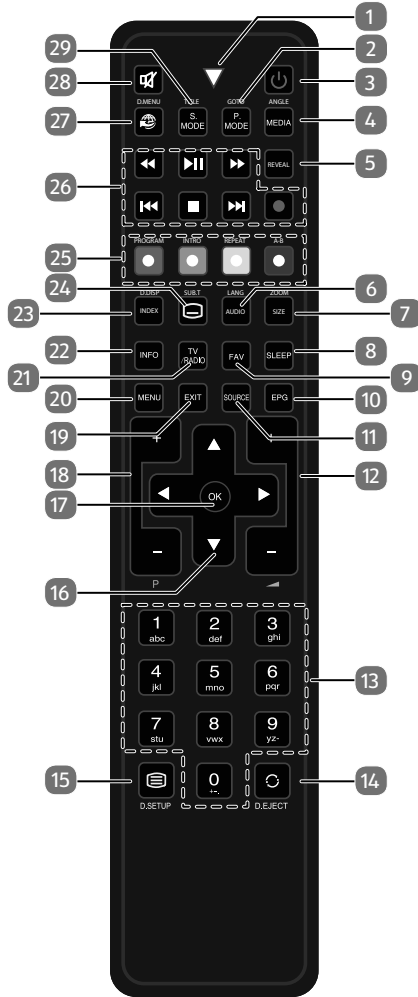
5.2. Rear








- 1) **COMMON INTERFACE (CI+):** Card slot for connecting pay TV cards
- 2) **MINI AV:** Audio/video input (via the supplied cinch adapter)
- 3) **MINI YPBPR:** YPbPr components input (via the supplied cinch adapter)
- 4) **HEADPHONE OUT:** For connecting headphones with 3.5 mm jack
- 5) **USB(2.0) DC 5V, Max. 500mA:** USB port for connecting an external storage medium for playing back media.
- 6) **HDMI ARC/CEC:** HDMI port for devices with HDMI output (can be used for CEC/ARC)
- 7) **SPDIF COAX OUT:** Digital audio output (coaxial)
- 8) **RF:** Antenna connection (DVB-T/DVB-T2 HD/DVB-C/analogue)
- 9) **LNB IN DC 13V/18V, 400mA Max.:** For connecting the antenna (satellite)
- 10) **SCART:** SCART socket (input)



- 11) **PC AUDIO:** Audio socket for PC sound playback
- 12) **PC:** Socket for connecting a PC
- 13) **POWER DC 12V / 3A:** Connector for mains adapter or for car adaptor
- 14) DVD player (optional)
- 15) Fixing holes for a wall mount
 MD21481/ MD21482: Vesa standard, hole spacing 75 x 75 mm
 MD21483: Vesa standard, hole spacing 200 x 100 mm

5.3. Remote control



1	LED display for confirming button selection.	
2	P.MODE GOTO	Select picture mode DVD: for selecting a desired section on a DVD (optional)
3		POWER: i.e. switch LCD TV on/off (switch standby mode on/off).
4	MEDIA ANGLE	Open media browser DVD: select camera position (viewing angle) in the DVD playback (optional)
5	REVEAL	Video text: Display hidden text.
6	AUDIO LONG	ATV: Set the normal sound format to stereo or mono DTV/Satellite: Select the audio languages DVD: select disc language (optional)
7	SIZE ZOOM	Change image format Video text: Press once to enlarge top half Press twice to enlarge bottom half No function
8	SLEEP	Set automatic switch-off function
9	FAV	Call up favourites list
10	EPG	Electronic television and radio programme guide (broadcaster-specific)
11	SOURCE	Select input signal of connected devices.
12		Increase (+) or decrease (-) volume.
13	Number buttons	TV: Programme selection, teletext: Page selection
14	 D.EJECT	Set previous TV programme. DVD: Eject button (optional)
15	 D.SETUP	Open video text Press twice: set transparent Press three times: close DVD: open the menu (optional)

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 DVD: displays information from the inserted DVD, such as chapters, played time, etc. (optional)	
24	 SUB.T	Video text: Open subpage DTV/satellite/media browser: Subtitle function DVD: subtitle function for the DVD player (optional)	
25	Colour buttons	RED [PROGRAM]	Intended for use in certain menus. DVD: program playlist of the DVD player (optional)
		GREEN [INTRO]	Intended for use in certain menus. No function
		YELLOW [REPEAT]	Intended for use in certain menus. Media browser: Repeat DVD: Setting the playback mode (optional)
		BLUE [A-B]	Intended for use in certain menus. Media browser: A-B repetition DVD: set Repeat A-B (optional)

26	Buttons for operating the media browser / DVD player (optional)	⏮	Rewind
		▶	Start/pause playback
		▶▶	Fast forward
		⏮	Previous track/previous chapter
		■	Stop playback
		▶▶	Next track/next chapter
		●	No function
27	 D.MENU	No function DVD: open and close DVD menu (optional)	
28		Mute	
29	S.MODE TITLE	Select sound mode DVD: open and close title menu (optional)	

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!

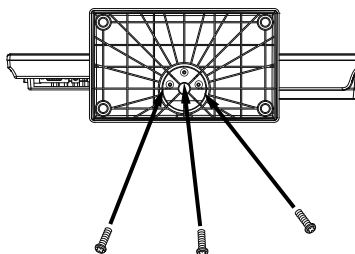
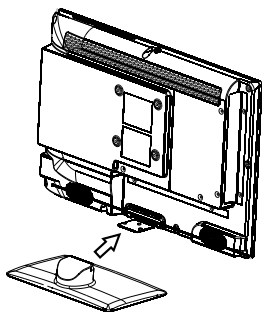
Packaging film can be swallowed or used improperly, creating a risk of suffocation!

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

6.2. Mounting

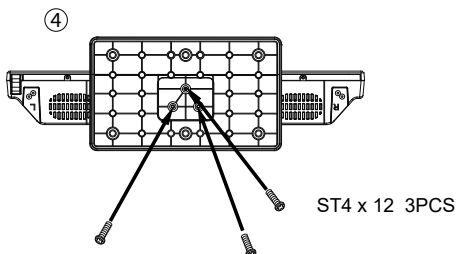
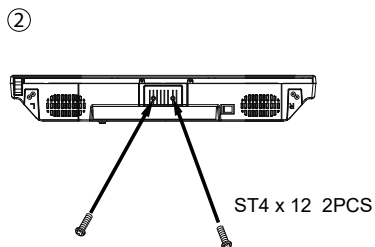
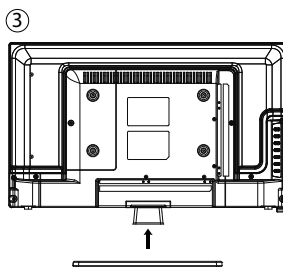
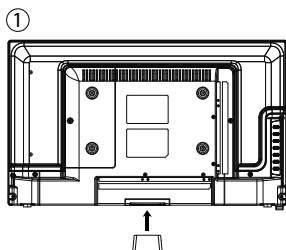
Attach the stand as shown in the illustration. Carry out this step before connecting the LCD TV.

MD21481 / MD21482:



3 x M3 x 5

MD21483:



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-T2¹ antenna or
- Via a DVB-C¹ 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.

¹This 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.



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 mains adapter

- ▶ Insert the jack plug on the supplied mains adapter into the **POWER DC IN** socket on the device.
- ▶ Connect the mains plug on the device to an easily accessible 100 - 240 V ~ 50 Hz mains socket.






PLEASE NOTE!

Risk of damage!

Using a different mains adapter may damage the device.

- ▶ Only use the supplied mains adapter.

6.7. Switching the LCD TV on and off

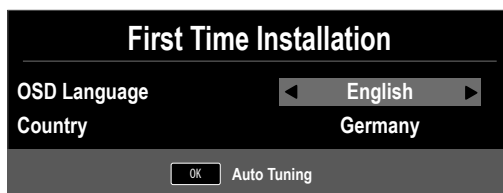
- ▶ The device will be in standby mode as soon as you have connected the mains plug to the mains socket.
- ▶ To switch on the device, press one of these
 - on the remote control: The Standby/On button .
 - On the device: The **STANDBY/On** button .
- ▶ Use the Standby/On button  on the remote control to switch the device back into standby mode. The device will be switched off, but will continue to use power.



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

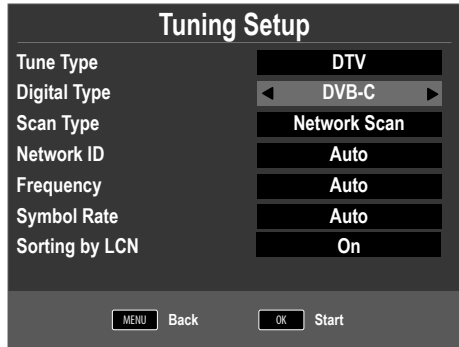
You will be guided through the **FIRST TIME INSTALLATION** after you switch on the device for the first time.



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**.

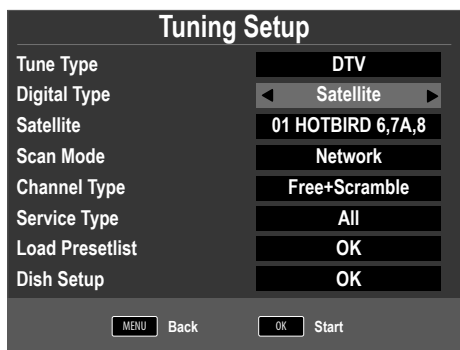
6.8.1. Cable and antenna



Menu option	Setting
TUNE TYPE	Use the direction buttons to select the reception type: <ul style="list-style-type: none"> • 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).
SCAN TYPE (only in DVB-C mode)	Set the search mode. Leave the setting on NETWORK SCAN or FULL if you do not want to configure any special settings.
NETWORK ID (only in DVB-C mode)	Set the network ID. The default setting is AUTO .
FREQUENCY (only in DVB-C mode)	Set the frequency. The default setting is AUTO . Only active if the NETWORK SCAN option has been selected in the Search mode settings.
SYMBOL RATE (only in DVB-C mode)	Set the symbol rate.
SORTING BY 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.

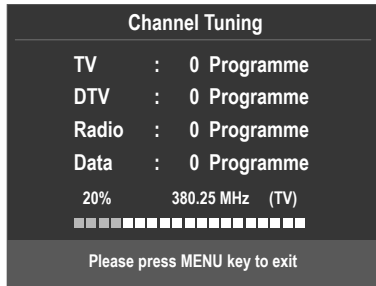
6.8.2. Satellite



Menu option	Setting
TUNE TYPE	No settings can be entered here in Satellite mode.
DIGITAL TYPE	Use the direction buttons to select the connection type (DVB-T , DVB-C or SATELLITE).
SATELLITE	Select the satellite on which the search will be started.
SCAN MODE	<p>Set the search mode.</p> <p>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.</p> <p>NETWORK: Activate/deactivate the network scan.</p> <p>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.</p>
CHANNEL TYPE	<p>Decide which channels you want to search for: FREE (available channels), SCRAMBLE (encrypted channels) or FREE+SCRAMBLE (available and encrypted channels).</p>

Menu option	Setting
SERVICE TYPE	Select the channel type. DTV : Search for digital TV channels. RADIO : Search for digital radio stations. ALL : Search for digital TV channels and digital radio stations.
LOAD PRESETLIST	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.
DISH SETUP	You can configure the same settings here as in the CHANNEL > DISH SETUP menu option.

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



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 INSTALLATION** option in the **OPTION** menu.

7. Multimedia connections

7.1. Use of the multimedia connections



CAUTION!

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.



CAUTION!

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. SCART

The SCART connector simplifies connection of various video devices as it combines video and audio signals in a single multi-pole plug. Use a commercially available SCART cable.

- ▶ Connect the SCART input and output of the equipment with a SCART cable.

7.1.2. 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).

7.1.3. 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).

7.1.4. 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.

7.1.5. 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.

7.1.6. 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.

7.1.7. 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).

7.1.8. 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.

7.1.9. 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.

7.1.10. 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.

7.1.11. LAN

You have the possibility to connect the device to the Internet via the LAN connection and receive online content (e.g. streaming services) on your device.

- ▶ Connect the LAN ports of the devices used with a network cable (Ethernet cable).
- ▶ Make all the necessary network settings on the devices.

7.1.12. 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 coordinate 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

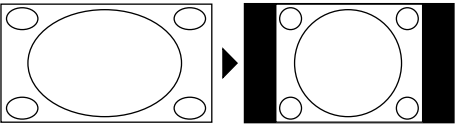
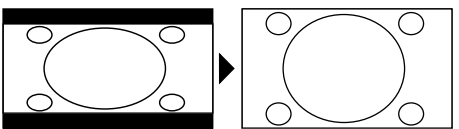
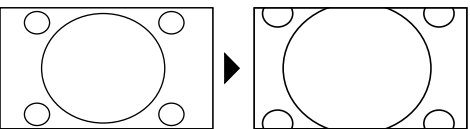
- ▶ To select a channel, either press the **CH+/-** buttons (on the device) or the **P+/-** buttons (on the remote control) or select the channel directly by pressing the appropriate number.
For a two- or three-figure number, press the numbers one after another.
- ▶ Press the  button to select the last channel played.

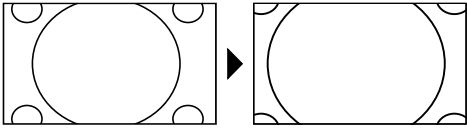
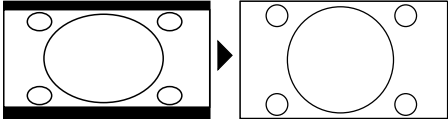
8.2. Sound settings

- ▶ 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**, **MUSIC**, **MOVIE**, **SPORTS**, **PERSONAL**. The **PERSONAL** 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: **DYNAMIC**, **STANDARD**, **MILD**, **PERSONAL**. The **PERSONAL** 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) The format displayed is automatically adjusted to match the input signal.	
4:3 For undistorted picture display in 4:3 format.	
16:9 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.	
1:1 (only for HDMI): The picture is shown with pixel-perfect reproduction.	

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.



- ▶ 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)
PC:	Device on PC input
SCART:	Device on the SCART socket
COMPONENT:	Device on the YPBPR input via an adapter (YUV)
HDMI:	HDMI input
MEDIA:	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 selection.
- ▶ 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.

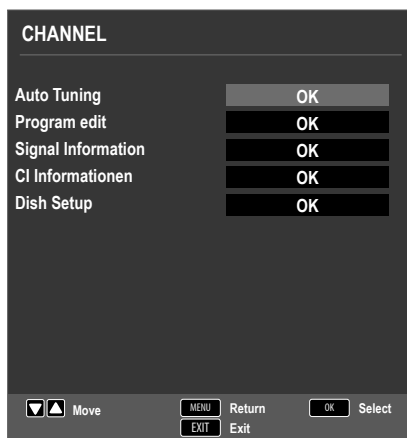
You can select the following main menus:

- **CHANNEL** menu
- **PICTURE** menu
- **SOUND** menu
- **TIME** menu
- **LOCK** menu
- **OPTION** 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. Channel menu



Menu option	Setting	
AUTO TUNING	If you have selected the source DTV (DVB-T or DVB-C), the following setting options are available:	
	COUNTRY	Select the desired country for the channel search.
	TUNE TYPE	Use the direction buttons to select the reception type: <ul style="list-style-type: none"> • 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 digital connection type (DVB-T or DVB-C).
	SCAN TYPE (only in DVB-C mode)	Set the search mode. Leave the setting on NETWORK SCAN or FULL if you do not want to configure any special settings.
	NETWORK ID (only in DVB-C mode)	Set the network ID. The default setting is AUTO .

FREQUENCY (only in DVB-C mode)	Set the frequency. The default setting is AUTO . Only active if the NETWORK SCAN option has been selected in the Search mode settings.
SYMBOL RATE (only in DVB-C mode)	Set the symbol rate.
SORTING BY 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.	
If you have selected the source SATELLITE , the following setting options are available:	
COUNTRY	Select the desired country for the channel search.
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 SCAN: 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 scan takes the longest time.

	CHANNEL TYPE	Decide which channels you want to search for: FREE (free channels), SCRAMBLE (encrypted channels) or FREE+SCRAMBLE (free and encrypted channels).
	SERVICE TYPE	Select the channel type. DTV : Search for digital TV channels. RADIO : Search for digital radio stations. ALL : Search for digital TV channels and digital radio stations.
	LOAD PRESETLIST	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.
	After you have configured all the settings, press OK . The channel search will then start.	
ATV MANUAL TUNING (only in ATV and DTV modes)	You can programme individual analogue channels manually here.	
	CURRENT	Select the channel number for which you want to carry out a search.
	COLOR SYSTEM	PAL, SECAM, AUTO.
	SOUND SYSTEM	BG, I, DK, L.
	FINE-TUNE	Carry out the fine tuning with ◀ ▶
SEARCHING	Start the search with ◀ ▶	

DTV MANUAL TUNING (only for DVB-T)	You can programme individual channels 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 will be shown on the bar underneath.
	DTV	The number of digital TV channels 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 channels 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	Set the search frequency with ◀ ▶ or the number buttons on the remote control.
	SR	Set the symbol rate.
	QAM TYPE	Set the modulation.
	DTV	The number of digital TV channels found is displayed.
	RADIO	The number of digital radio stations found is displayed.
DATA	The number of data channels found is displayed.	
PROGRAM EDIT	You will see the currently saved channels here. You can change the following settings for each channel.	

	<p>DELETE</p> <p>Select the channel that you want to delete and press the red button [PROGRAM]. The selected channel is then deleted.</p> <p>DVB-T/C: If the SORTING BY LCN function has been activated, the channel number will also be deleted when the channel is deleted. In order to avoid this happening, deactivate this function under AUTO TUNING.</p>
	<p>RENAME (only for ATV)</p> <p>Select the channel that you want to rename and press the green button [INTRO].</p> <p>You can now change the first letter: scroll up and down through the set of characters using the direction buttons ▲ ▼.</p> <p>Move to the next and subsequent letters using the direction button ▶.</p> <p>When finished, press the green button [INTRO] again to save the name.</p>
	<p>MOVE</p> <p>Select the channel and press the yellow button [REPEAT]. Use the ▲ ▼ buttons to move the channel to the desired position and press the yellow button [REPEAT] again. The other channels will be rearranged accordingly. Alternatively, you can use the number buttons on the remote control to enter the channel number to which the channel should be moved. Then press the OK button. The channel will then be moved to the desired channel number.</p>
	<p>SKIP</p> <p>Select the channel that you want to skip when scrolling through the channels using the P+/- buttons and then press the blue button [A-B].</p> <p>You can still select this channel via the number buttons.</p>
	<p>FAV</p> <p>In order to save a channel to the favourites list, select it and press the FAV button. You can call up the favourites list via the buttons on the remote control.</p>
<p>SIGNAL INFORMATION</p>	<p>The signal information about the currently set channel will be displayed here.</p> <p>This option is only available in DTV/satellite mode.</p>

**CI INFORMATION
(CI+)**

If you want to watch subscription channels, you must first register with the relevant provider. You will receive a Conditional Access Module (CA 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:

- ▶ 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 that you may only insert or remove the CI module when the device has been disconnected from the mains electricity network.

**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.

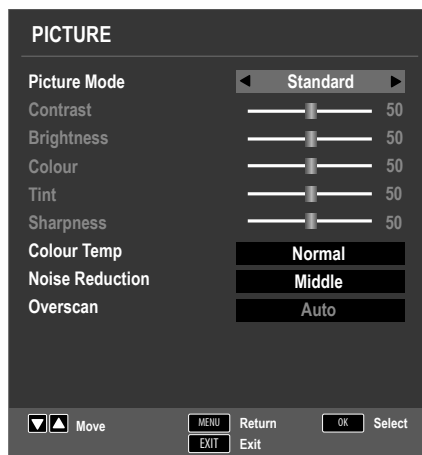
Menu option	Setting		
DISH SETUP (only DVB-S)	SATELLITE	Select the satellite for which you want to change the settings or carry out a search.	
		EDIT Press the green button to edit the selected satellite.	
		SATELLITE NAME	You can change the name of the satellite with the help of the displayed keyboard. Use the arrow buttons to select the desired characters and confirm them with the OK button. Save the new name with the blue button.
		LONGITUDE DIRECTION	Use the direction buttons ◀ ▶ to select the orbit position WEST or EAST .
		LONGITUDE ANGLE	The number buttons can be used to enter the angle.
		BAND	Select the desired frequency band KU or C .
		ADD Press the yellow button to add a new satellite. The setting options are the same here as under EDIT .	
		SCAN Press the blue button to make the settings for the search.	
		DELETE Select the satellite that you want to delete from the list and press the red button. Confirm the query with YES .	

Menu option	Setting	
	SCAN MODE	<p>Set the search mode.</p> <p>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.</p> <p>NETWORK SCAN: Activate/deactivate the network scan.</p> <p>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 scan takes the longest time.</p>
	CHANNEL TYPE	<p>Decide which channels you want to search for: FTA CHANNELS (free channels), SCRAMBLE (encrypted channels) or ALL CHANNELS (free and encrypted channels).</p>
	SERVICE TYPE	<p>Select the channel type.</p> <p>DTV: Search for digital TV channels.</p> <p>RADIO: Search for digital radio stations.</p> <p>ALL: Search for digital TV channels and digital radio stations.</p>
	<p>When you have finished entering all your settings, press the OK button. The search on the desired satellite will now start.</p>	

Menu option	Setting	
TRAN-SPONDER	Use the arrow button EPG to switch to the TRAN-SPONDER column and use the arrow buttons ▲ ▼ to select the transponder for which you want to start the search. Now press the OK button to mark the relevant 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.	
	FREQUENCY	Enter the frequency using the number buttons.
	SYMBOL (KS/S)	Enter the symbol rate using the number buttons.
	POLARITY	Select the polarity with ◀ ▶ .
	DELETE Select the transponder that you want to delete from the list as described above and press the red button. Confirm the query with JA .	
	EDIT The setting options correspond to those for ADD .	
	SCAN The setting options correspond to those for SCAN under Satellite.	
	LNB TYPE	Enter the oscillator frequency for your LNB type here. The default setting is 09750/10600 .
The following UNICABLE SETTINGS can be made here.		
IF CHANNEL		You can set the IF channel here
CENTRE FREQ		You can set the centre frequency here
SAT POSITION		You can set the satellite position here

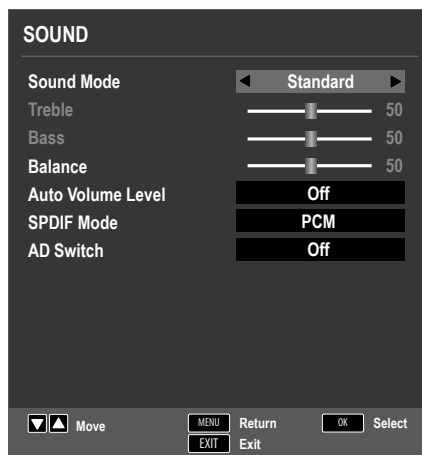
Menu option	Setting	
LNB POWER		Set the LNB power here.
22KHZ		Set the sound here, the default setting is AUTO .
TONEBURST		If your satellite system requires a tone burst, you can set it to BURST A or B here.
DISEQC 1.0/1.1		If you have connected multiple LNBs or a DiSEqC switch to your satellite antenna, set the desired LNB here.
MOTOR		If your satellite antenna is controlled by a motor, select the desired DiSEqC version with ◀ ▶ . Press the OK button to define the position of the antenna.
In order to start the search, press the blue button (SCAN) and confirm with OK .		

10.2. Picture menu



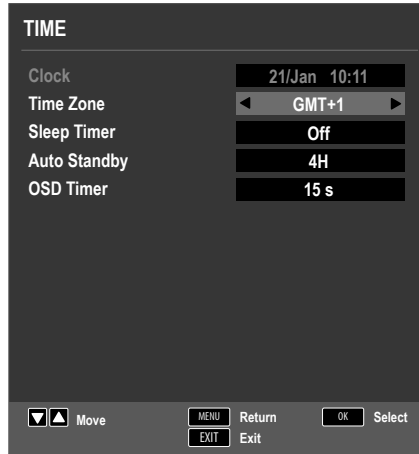
Menu option	Setting
PICTURE MODE	Select picture mode: STANDARD, DYNAMIC, MILD, STANDARD, DYNAMIC, MILD, PERSONAL . This function corresponds to the P.MODE button. In the PERSÖNLICH setting, you can set the CONTRAST, BRIGHTNESS, COLOUR, TINT and SHARPNESS yourself. These parameters cannot be changed in the other settings.
CONTRAST	Increase or decrease contrast (on a scale of 0 – 100).
BRIGHTNESS	Increase or decrease brightness (on a scale of 0 – 100).
COLOUR	Increase or decrease the colour (on a scale of 0 – 100).
TINT	Hue settings only available for NTSC reception.
SHARPNESS	Increase or decrease sharpness (on a scale of 0 – 100).
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 between OFF, LOW, MIDDLE, HIGH and DEFAULT .
OVERSCAN (HDMI only)	AUTO : Automated adjustment of the picture format to the input signal OVERSCAN : Format for playing back videos (Overscan) PC : Format for playing back PC signals (1:1 reproduction).

10.3. Sound menu



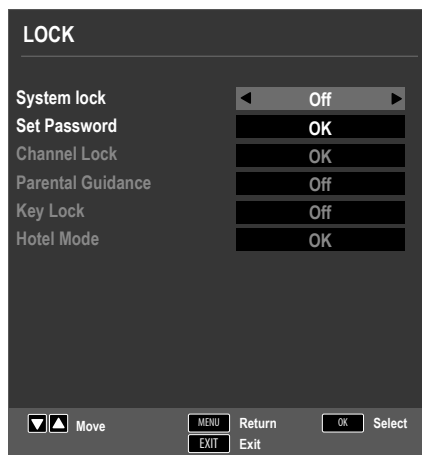
Menu option	Setting
SOUND MODE	Select the audio mode: STANDARD, MOVIE, MUSIC, SPORTS, PERSONAL . This function corresponds to the S. MODE button.
TREBLE	Increase or decrease the low frequencies (on a scale of 0 – 100).
BASS	Increase or decrease the high frequencies (on a scale of 0 – 100).
BALANCE	Set the balance between the left and right speakers.
AUTO VOLUME LEVEL	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.
SPDIF MODE	Set the SPDIF mode.
AD SWITCH	Activate/deactivate audio description and set the volume. Only available in DTV mode. Support for this function is dependent on the programme.


10.4. Time menu



Menu option	Setting
CLOCK	Time display. It is not possible to set the time. This option is only available in DTV mode.
TIME ZONE	You can set the time zone here. 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 the function.
AUTO STANDBY	Set a time here after which the LCD TV will switch off automatically if no operations are carried out on the operating panel or the remote control within the defined period of time. This function serves to protect the environment.
OSD TIMER	Here you can set the time after which the OSD menu automatically closes.

10.5. Lock menu




Menu option	Setting	
SYSTEM LOCK	You can release the CHANNEL LOCK , PARENTAL GUIDANCE and HOTEL MODE locks here. To do this, you will need to enter the password. Factory setting: 0000 .	
SET PASSWORD	An input field for entering the passwords will appear.	
	PLEASE ENTER OLD PASSWORD	Use the number buttons to enter the existing password. Factory setting: 0000 .
	PLEASE ENTER NEW PASSWORD	Enter a new four-digit password.
	CONFIRM NEW PASSWORD	Enter the new password again. The new password is saved.
	 Note down the new password. It is not reset when you restore the factory settings. If you forget the password, enter the master password 8899 .	
CHANNEL LOCK	Define here which channels should be locked.	
PARENTAL GUIDANCE	Here you can select the age. This option is only available in DTV mode.	

KEY LOCK	You can switch the key 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 MODE	In hotel mode, you can make various settings which restrict the functionality and operation of the device.

10.6. Option menu



Menu option	Setting
OSD LANGUAGE	Select the OSD menu language. It changes immediately.
TT LANGUAGE	Select the set of characters here for the teletext: WEST, EAST, RUSSIAN, ARABIC or FARSI .
AUDIO LANGUAGES	If the current programme is transmitted in multiple languages, you can set your preferred language here. The programme will then be played in this language. You can enter settings for two languages (PRIMARY, SECONDARY).
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. You can enter settings for two languages (PRIMARY, SECONDARY).
HEARING IMPAIRED	If the channel 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 RATIO	Set the picture format here. This function corresponds to the SIZE button.

Menu option	Setting	
BLUE SCREEN	If the LCD TV is not receiving a signal the screen will turn blue rather than showing "snow" or a black background.	
FIRST TIME INSTALLATION	You can access the menu for the initial installation here.	
RESET	Here you can reset the device to the 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. Do not interrupt the update process in order to avoid irreparable damage to the device.	
HDMI CEC (Consumer Electronics Control)	Enable this function to enable the communication of all devices that are connected via HDMI. In this way, you can, for example, control all devices within an HDMI network using only one remote control. All connected devices must support the CEC function. Depending on device, there may be functional limitations that cannot be changed.	
	CEC CONTROL	Enable/disable the CEC function.
	AUDIO RECEIVER	<p>Audio Return Channel is useful if the TV is connected to an AV receiver or a soundbar that offers the ARC feature.</p> <p>With ARC, audio signals can not only be received via HDMI, but also sent from the TV to an ARC-compatible device using the same cable.</p> <p> The HDMI port is used for ARC.</p>
	DEVICE AUTO POWER OFF	Here you can select whether the connected device is to switch to standby mode when the TV switches to standby mode.
	TV AUTO POWER ON	Here you can select whether the TV is to switch on when the connected device switches on.
	DEVICE LIST	Devices that are connected to the HDMI port are listed here.
	DEVICE MENU	Open the menu of connected CEC device.
SOFTWARE VERSION	The current software version is shown.	

10.6.1. Channel list

Press the **OK** button during operation to call up the **CHANNEL LIST**. The following options are available here:

Button	Entry	Function
▲ ▼		You can use these buttons to move up/down through the channel list. Press the OK button to switch to the currently selected channel.
Yellow button [REPEAT] (only if ALL channels are displayed)	FIND	This option enables a channel to be searched for via the keypad. Enter the name of the desired channel by selecting the required characters with the arrow buttons and confirming in each case with the OK button. As soon as a character is entered, all channels that start with this character will be automatically displayed. Then choose the option OK and confirm with the OK button. The device now switches to the first channel in the selection found.
Green button [INTRO] (Only if ALL channels are displayed (only available for satellite))	SORT	You can use this option to define how the channel list is sorted: BY DEFAULT: The channels are sorted according to the default settings. BY FREQ: The channels are sorted according to their frequency. BY SERVICE NAME: The channels are sorted according to their name. BY SATELLITE NAME: The channels are sorted according to their satellite name. BY ENCRYPT: Encrypted and free channels are sorted separately from one another.
CH+/CH-	PAGE UP/ DOWN	You can move through the individual pages of the channel list in steps of 10 with these buttons.

<p>◀ ▶</p>	<p>SELECT</p>	<p>Available for DTV and satellite</p> <ul style="list-style-type: none"> – ALL: all channels will be shown; – DTV LIST: only the digital TV channels will be shown; – RADIO LIST: only the radio stations will be shown. – DATA LIST: only data will be shown. – FREE: only the freely available channels will be shown; – SCRAMBLED LIST: only the encrypted channels will be shown; – Satellite selection: All channels that are transmitted by the selected satellite are listed.
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11. Media player

If you attach a USB storage medium to the LCD TV, you can play back photos, music, videos or text. The supported formats can be found in the technical specifications at the end of these instructions.

Information on 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 as compatibility problems may arise.
- ▶ Never remove the USB device while a file is being played.



PLEASE NOTE!

Risk of damage!

Quick and repeated connection and disconnection of USB devices is dangerous and can lead to physical damage to the USB device and, in particular, to the LCD TV itself.

- ▶ In particular, you should not plug in and unplug the USB device several times 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 source **MEDIA**.
- ▶ 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

After accessing the media player via USB as described above, you are taken to the main menu.



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

In the menu for the respective media **PHOTO, MUSIC, MOVIE, TEXT**, you can delete an object using the red button.

In order to exit the media player, press the **SOURCE** button (on the remote control or the device) and select a different source or press the **EXIT** button to return to the previously used source.

11.3. Displaying photos

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

- ▶ If there are several folders on the storage medium, use the ◀ ▶ ▲ ▼ buttons to firstly select the folder and open it with **OK**.
- ▶ Use the ◀ ▶ ▲ ▼ buttons to select the photo you want to display. Press **OK** to display the photo.
- ▶ You can select from further options with the **OK** button. Confirm each option by pressing **OK**.
 - **PLAY/PAUSE**: Start/pause the slideshow for all photos.
 - **PREV./NEXT**: Display previous/next photo.
 - **STOP**: Stop the slideshow.
 - **REPEAT ALL**: Repeat the slideshow
 - **MUSIC**: Switch the background music on/off
 - **PLAYLIST**: Displays the playlist for the photos
 - **INFO.**: Shows information on the displayed photo
 - **ROTATE** / : Rotates the selected image by 90 degrees anticlockwise/clockwise
 - **ZOOM IN/OUT**: Enlarges/reduces the size of the displayed image
 - **MOVE VIEW**: 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.
- ▶ 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** from the main menu, the available music files are filtered and displayed on the screen.

- ▶ If there are several folders on the storage medium, use the ◀ ▶ ▲ ▼ buttons to firstly select the folder and open it with **OK**.
- ▶ Use the ◀ ▶ ▲ ▼ buttons to select the music track you want to play. Press **OK** to start the track.
- ▶ You can select from further options with the **OK** button. Confirm each option by pressing **OK**.
 - **PLAY/PAUSE**: Start/pause playback of the music track
 - **FB/FF**: Fast forward/rewind
 - **PREV./NEXT**: Play previous/next track
 - **STOP**: Stop playback of the music track
 - **REPEAT ALL**: Repeat the tracks
 - **MUTE**: Mute the playback
 - **PLAYLIST**: Displays the playlist for the music tracks
 - **INFO.:** Shows information on the displayed track
 - **GOTO TIME**: Start the track at a particular time
- ▶ 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** from the main menu, the available video files are filtered and displayed on the screen.

- ▶ If there are several folders on the storage medium, use the ◀ ▶ ▲ ▼ buttons to firstly select the folder and open it with **OK**.
- ▶ Use the ◀ ▶ ▲ ▼ buttons to select the video you want to play. Press **OK** to start the video.
- ▶ You can select from further options with the **OK** button. Confirm each option by pressing **OK**.
 - **PLAY/PAUSE**: Start/pause playback of the video.
 - **FB/FF**: Fast forward/rewind
 - **PREV./NEXT**: Display previous/next video
 - **STOP**: Stop playback of the video
 - **CHARSET**: Set the text format for the subtitles
 - **REPEAT ALL**: Repeat the video.
 - **SET A**: Repeats a particular section of the video
 - **PLAYLIST**: Displays the playlist for the videos
 - **INFO.**: Shows information on the displayed video file
 - **SLOW**: Slow-motion function
 - **STEP**: Frame-advance playback
 - **GOTO TIME**: Start the video at a particular time
 - **ZOOM IN/OUT**: Enlarges/reduces the size of the displayed image
 - **ASPECT RATIO**: Change picture format
 - **MOVE VIEW**: 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.
- ▶ 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** from the main menu, the available text files are filtered and displayed on the screen.

- ▶ If there are several folders on the storage medium, use the ◀ ▶ ▲ ▼ buttons to firstly select the folder and open it with **OK**.
- ▶ Use the ◀ ▶ ▲ ▼ buttons to select the text you want to display. Press **OK** to display the text.
- ▶ You can scroll forwards or backwards through the document using the ◀ ▶ buttons.
- ▶ 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 and the next programme for the available channels in the table.

- ▶ Press the **EPG** button to open the programme guide.
- ▶ Use the ▲ ▼ buttons to select a channel.
- ▶ Scroll through the programmes with ▲ ▼ or ◀ ▶.



The programme information displayed is created by the broadcaster. If no programme information is displayed, this does not indicate a fault with your LCD TV.

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

Button	Entry	Function
Green button [INTRO]	REMIND	Adds the selected programme to the schedule. As soon as the programmed time has been reached, the device will automatically switch to the relevant programme. It is not possible to add a reminder for the current programme. Select here whether the reminder should be: daily (D) or weekly (W). In the ☀ setting, a reminder will be displayed at the programmed time without automatically switching the channel.
Yellow button [REPEAT]	PREV DAY	The programme guide for the previous day is displayed. This is only possible up to the current day. Programmes from the past are not displayed here.
Blue button [A-B]	NEXT DAY	The programme guide for the next day is displayed.
▲ ▼ ◀ ▶	MOVE VIEW	You move through the programme guide using the direction buttons.
INFO	DETAILS	Displays a detailed description of the highlighted programme (if available). Press the button again to hide the description.
EXIT	EXIT	Exit the programme guide.

13. DVD mode (optional)

The DVD mode allows you to control the integrated DVD player.

13.1. Switching between TV and DVD modes

- ▶ Press the **SOURCE** button on the remote control or on the device) to call up the source selection list.
- ▶ Use the direction buttons ▼ ▲ to go to **DVD**.
- ▶ Confirm your selection with the **OK** button.
- ▶ If you want to return to TV mode, repeat this procedure and instead of selecting **DVD**, select **ATV**, **DTV** or **SATELLIT** depending on the antenna signal received.

13.2. Inserting a DVD



The integrated DVD player only supports media with a diameter of 12 cm. To avoid damage to discs, do not insert media with larger or smaller diameters into the DVD slot.

The DVD must be inserted with the label side facing to the rear (rear side of the smart TV).

To be able to insert a DVD into the DVD slot, you must set the smart TV to DVD mode.

- ▶ Insert the DVD into the DVD slot with the label side facing to the rear. If the device is set to DVD mode, the DVD will be automatically recognised and retracted. **LOAD** followed by **PLAY** will appear on the screen. Normally, playback will start automatically.



In some cases you may need to initiate play manually. To do this, press the ▶ || button.

13.3. Button functions

13.3.1. Special screen message



If you select a function which does not start or cannot be accessed in the current mode, the 'not-valid' symbol shown here will appear on the screen. The symbol disappears after a few seconds.

13.3.2. Playback

- ▶ Press the ▶ || button to start/pause playback. To resume playback, press the ▶ || button once again.

13.3.3. Stop

- ▶ Press ■ once to stop playback. In this mode, you can resume playback at the same point by pressing ▶.
- ▶ Press ■ once more to finally stop the DVD. The device is now in stop mode.

13.3.4. Skip

- ▶ Press the ◀◀ or ▶▶ button during playback to skip backward or forward (with DVDs: from chapter to chapter; otherwise, from track to track).



Please note that on many DVDs it is not possible to pass over the titles/chapters before the actual film starts (licence notes).

13.3.5. Fast forward/rewind

- ▶ Press the ◀◀ or ▶▶ button during playback to start fast forward/rewind. Repeated pressing allows you to increase the speed: 2x > 4x > 8x > 16x > 32x. By pressing the button once more or by pressing ▶, you can return to the normal play speed.

13.3.6. GOTO

The **GOTO** button allows you to go directly to a chapter, track or time. You change the selection each time the button is pressed. Playback starts at the selected spot.

- ▶ You can also enter a track directly using the number buttons (without pressing **GOTO** first). Playback starts from the selected spot.

13.3.7. DVD

- ▶ Press **GOTO** once: enter a desired chapter within the title.
- ▶ Press **GOTO** twice: enter the desired time within the title in the format H:MM:SS.
- ▶ Press **GOTO** three times: enter the desired time within the chapter in the format H:MM:SS.

13.3.8. Audio CD/VCD

- ▶ Press **GOTO** once: **DISC GO TO** – enter the desired time on the CD in the format MM:SS.
- ▶ Press **GOTO** twice: **TRACK GO TO** – enter the desired time within the track in the format MM:SS.
- ▶ Press **GOTO** three times: **SELECT TRACK** – enter the number of the desired track.
- ▶ You can also enter the number of the track directly (without using the **GOTO** button).

13.3.9. MP3/WMA

- ▶ Press **GOTO** once: enter the desired track (three digits; enter a preceding “0” or “00” if necessary).
- ▶ You can also enter the number of the track directly (without using the **GOTO** button).
- ▶ Press **GOTO** twice: enter the desired time within the track in the format MM:SS.

13.3.10. Xvid

- ▶ Press **GOTO** once: Enter the desired title.
- ▶ Press **GOTO** twice: Enter the desired time within the title.

13.3.11. D.DISP (time display)

During playback, you can view the play time and the remaining play time by pressing the **D.DISP** button once and then pressing it again. You will see a corresponding screen message each time you press the button:

DVD: **PLAYBACK TIME: TRACK > ELAPSED: TRACK > PLAYBACK TIME: CHAPTER > TIME REMAINING: CHAPTER > DISPLAY OFF**

CD/VCD/Xvid: **TIME REMAINING: CURRENT TRACK > PLAYBACK TIME: CURRENT TRACK > PLAYBACK TIME: TOTAL > TIME REMAINING: TOTAL**

MP3/WMA: displays playback status and volume level.

13.3.12. REPEAT

Press the yellow button [**REPEAT**] during playback. The repeat symbol and, with each press of the button, the section to be repeated will appear on the screen (the entry disappears after a few seconds):

DVD: **CHAPTER > TITLE > ALL**

Audio CD: **TITLE > ALL**

MP3/WMA/VCD: **PLAYBACK: 1 TITLE > REPEAT TITLE > REPEAT FOLDER > PLAYBACK:1 FOLDER**

13.3.13. PROGRAM (playback sequence)

The programming function allows you to play up to 20 chapters (DVD) or tracks (audio) in a sequence defined by you.

Programming is not possible with MP3 media.

You program the sequence as follows:

- ▶ Press the red button **PROGRAM**. A table showing the available programme positions appears on the screen. The number of titles appears in the table header.
- ▶ Use the number buttons on the remote control to enter the desired title (**TT**) for programme position **01**. In the case of single-digit numbers, please enter a preceding **0**.
- ▶ For DVDs, you can now likewise enter the desired chapter (**CH**).

The cursor jumps to programme position **02**.

Enter additional programme positions in the same way.

Start list

- ▶ As soon as the first programme position has been entered, "Start" appears at the bottom of the menu.
- ▶ Use the arrow keys to move the cursor to "Start" and press **OK**. The programmed list starts to play. You can use the red button **PROGRAM** to call up the list again.
- ▶ Press **■ STOP** twice during playback to delete the list.

13.3.14. A-B (Repeat A-B)

Repeat A-B allows you to define and repeat the start and end of a desired scene:

- ▶ Press the blue button **A-B** to define the start point A for repeating a particular section. "↻ A" is displayed on the screen.
- ▶ Press the blue button **A-B** once again to define the end point B. "↻ AB" is displayed on the screen. The section between points A and B is now repeated in a loop.
- ▶ Press the **A-B** button a third time to disable the Repeat AB function.

13.3.15. LANG (audio setting (language))

- ▶ Press **LANG** repeatedly to select a different audio setting that is available on the DVD (for example, 2-channel sound or 5.1-channel sound) or the spoken language. The setting is applied immediately and does not need to be confirmed.



Please note that this function is not implemented on some DVDs.

13.3.16. Calling up DVD menus

To call up the menus stored on the DVD, you use the **TITLE** and **D.MENU** buttons. In general, the **D.MENU** button calls up the main menu, while the **TITLE** button calls up the title menu. You navigate through the items in the DVD menu using the arrow keys. Confirm each selection by pressing **OK**.



Please note that the precise functions available in each menu depend on the DVD.

13.4. Navigating MP3 and JPEG data media

The music tracks and images on MP3 and JPEG data media may be organised into folders just like on other data media.

- ▶ Insert the data medium containing the MP3 or JPEG files into the player. A menu appears on the screen showing the top-level directory structure. If the data medium contains folders, they will be listed one beneath the other. An MP3 track is displayed with an MP3 symbol. The active folder or file is highlighted in orange. The total number of tracks in the folder is given in the top line.
- ▶ Use the arrow buttons **▲ ▼** to go to one of the folders and confirm by pressing **OK**. Other sub-folders may also be opened if present. In this case, you can return to the higher-level menu using the left arrow button **◀** or the uppermost menu option.
- ▶ To listen to a track or view an image, select it and confirm by pressing **▶ || (PLAY)** or **OK**.

13.4.1. JPEG images

With JPEG images you will see a preview of the image on the right-hand side of the menu.

- ▶ Select an image and confirm with **OK** to view the larger image. All of the images within the active folder will be displayed in succession after the selected image (“slide show”).
- ▶ If you click the arrow buttons ◀ ▶ during playback, you will rotate the image. Please note that it may not be possible to display extremely large images.

13.5. SETUP menu in DVD mode

- ▶ Press the **D.SETUP** button in DVD mode. The main page of the SETUP menu appears on the screen. The following menus are active in DVD mode:

GENERAL SETUP PAGE

AUDIO SETUP PAGE

DOLBY DIGITAL SETUP

PREFERENCE PAGE

13.5.1. Navigating in the menus

- ▶ Use ▲ ▼ to select between the menus. The active menu is highlighted in orange. Use ◀ ▶ to select the menu options; the selection options will be shown on the right-hand side. The active setting is highlighted in brown.
- ▶ To change a setting, use ▶ to go to the right-hand side and then select a different option using ◀ ▶. Press **OK** to confirm.
- ▶ Use ◀ to get to the higher-level menu selection.
- ▶ Press **D.SETUP** to leave the setup menu at any point.

13.5.2. Menu: General Setup Page

TV-Format

Here you set the device’s display format to match that of the television.

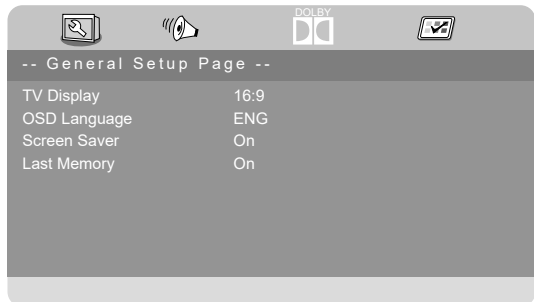
4:3 PAN SCAN: Selection for televisions with a 4:3 format. The pan scan format displays 16:9 film formats in full height; the side sections of the image are cut off.

4:3 LETTER BOX: Selection for televisions with a 4:3 format. The letterbox format reduces the 16:9 film format to the size of the screen.

16:9: Selection for televisions with 16:9 format.

OSD Language

This sets the OSD (on-screen display) language, i.e. the language for the device menus.



Once you select a language the menu changes immediately.

Screen saver

If the screen saver is activated, a screen saver will appear if no buttons are pressed for 3 minutes (but not during playback).

Last Memory

With this function, the DVD player remembers where the last DVD was at when it was stopped. If you insert the same DVD into the device again, playback will resume from the last position. The last position on the DVD will be remembered even if the device is switched off.

13.5.3. Menu: Speaker Setup Page

Select the **SPEAKER SETUP PAGE** menu option to set the sound mode.

Downmix

If you use the analogue output you can change the loudspeaker settings from this menu.

LT/RT: Select this setting if you want to choose only the right or the left output channel.

STEREO: This option produces stereo sound. Choose this setting if the sound is played through two speakers only.



13.5.4. Menu: Dolby Digital Setup

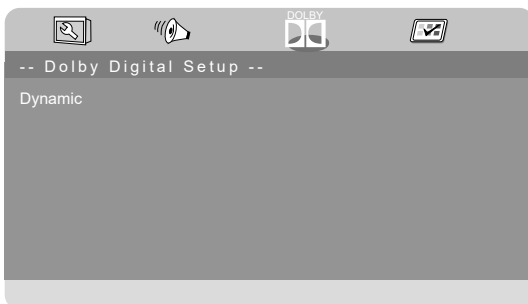
Dynamic

The Dolby Digital sound format supports a dynamic setting that allows you to set the volume difference between quiet and loud passages on a scale from **OFF** to **FULL** in nine increments.

OFF: The sound remains unchanged, i.e. loud passages and bass are played loudly, quiet passages are played quietly ("cinema sound"). The setting is only appropriate if no one can be disturbed.

FULL: The volume difference is minimised, i.e. the volume is reduced for loud passages and increased for quiet passages. This setting is appropriate, for example, at night.

- ▶ To change the setting, use ▶ to go to the scale on the right-hand side and then select the desired value using ▼ or ▲. Press **OK** to confirm.



13.5.5. Menu: Preference Page

TV type

Select the colour standard of your television here:

PAL: Usual colour format for many European countries.

MULTI: Automatic format setting.

NTSC: Usual colour format for North America.

Audio

Here you can set the default language track of the DVD, insofar as the DVD has multiple language tracks.

Subtitle

Here you can set the default language for the subtitles stored on the DVD, insofar as the DVD has subtitles.

Disc Menu

Here you select the language of the menus stored on the DVD, insofar as menus are available on the disc.

Parental

Here you can set the authorisation level for DVDs (parental control).

Some DVDs and CDs are coded with the encryption signals of the authorisation classes established by the Motion Picture Association. The eight authorisation classes are:

1 KID SAFE: Suitable even for small children;

2 G: For all age groups;

3 PG: Recommended for children aged 6 or older with parental guidance;

4 PG13: Recommended for persons aged 12 or over;

5 PGR: Recommended for persons aged 16 or older with parental guidance;

6 R: May only be viewed by persons under the age of 16 if they are with a parent or adult guardian;

7 NC17: Should not be viewed by persons under the age of 18;

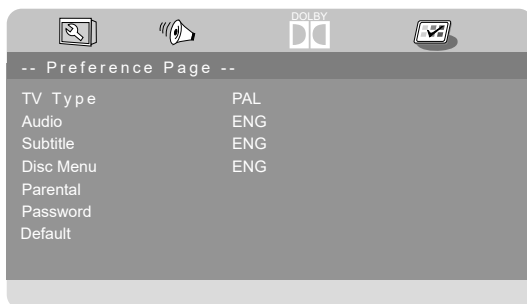
8 ADULT: Adults only.

If a DVD was encoded with the authorisation class 7 (18 or over) or 8 (**ADULT**), for example, and you have set an authorisation class 1 to 6, a message is displayed and the password must be entered. Parts of a DVD – certain scenes, for example – may also be encoded with an authorisation class or a range of authorisation classes.

Password

Here you can change or set up the password for activating and changing the authorisation class.

▶ Confirm **CHANGE** by pressing **OK**.



OLD PASSWORD: Enter the existing password with the number keys on the remote control. It comprises exactly four digits. If no password has been set up yet, the factory default password **123456** is valid. If you have entered the correct password, the next field is activated for entry.

NEW PASSWORD: Enter a four-digit password with the number keys on the remote control. The bar moves to the next field.

CONFIRM PWD: Enter the four-digit number again.

▶ Press **OK** to confirm the new password.

If you have forgotten the new password, enter the master password **4711**.

Default

▶ Confirm **RESET** twice with **OK** to reset the device to the factory settings.

Please note that changed passwords will not be reset!



14. Troubleshooting

Problem	Corrective action
There is no picture and no sound.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Ensure that the volume has not been set to the minimum level. • Ensure the mute setting is not active. 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.	<ul style="list-style-type: none"> • The reception might be poor. Check if the antenna is connected properly.
The picture is not clear.	<ul style="list-style-type: none"> • The reception might be poor. • Check if the antenna is connected properly.
The picture is too bright or too dark.	<ul style="list-style-type: none"> • Check the contrast and brightness settings.
The picture is not sharp.	<ul style="list-style-type: none"> • The reception might be poor. • Check if the antenna is connected properly. • Check the sharpness and noise reduction settings in the PICTURE menu.
There is a double/triple picture.	<ul style="list-style-type: none"> • Check if the antenna is aligned properly. • Waves might be reflected off buildings or hills.
The picture is pix-elated.	<ul style="list-style-type: none"> • There might be interference from cars, trains, power lines, neon lights, etc. • There might be interference between the antenna and power cables. Position the cables further apart.

Problem	Corrective action
There are stripes on the screen or the colours are faded.	<ul style="list-style-type: none"> • Is there interference from another device? • Transmission antennae on radio stations, ham radios and portable phones can also cause interference. • Operate the device as far away as possible from the device that might be causing the interference.
The control panel on the device does not work	<ul style="list-style-type: none"> • The child lock might be on.
The remote control is not working.	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check whether the automatic TV switch-off function is activated under TIME.
The disc won't start even though ▶ (PLAY) has been pressed, or it starts and then stops immediately.	<ul style="list-style-type: none"> • Is the disc inserted with the label side facing to the rear? • Check whether the disc is damaged by trying another disc. If the disc is dirty, clean it carefully, wiping it from the centre to the edge with a soft, dry cloth. • DVD: Does the DVD have the correct regional code (2)? • If condensation has formed inside the device: leave the player for one to two hours to dry off.



For further information on troubleshooting, read where applicable the comprehensive operating instructions available online because certain measures and procedures are described there in more detail

14.1. Do you need more help?

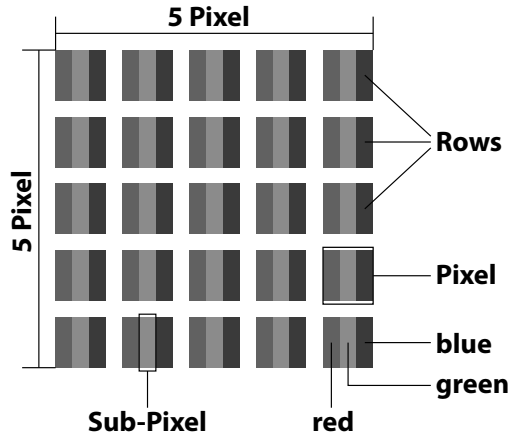
If the suggestions in the previous sections did not solve your problem, please contact us. To make it easier for us to help you, please have the following information to hand:

- 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.

14.2. 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 **1920 x 1080 (MD 21483) / 1366 x 768 (MD MD 21481 / 21482) pixels**, which are each made up of three sub-pixels (red, green, blue), there are a total of **approx. 6.2 (MD 21483) / 3.1 (MD 21481 / 21482) 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.



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).

15. Cleaning



WARNING!

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.

16. 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.

17. 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 wheeled 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.

18. Technical specifications

LCD TV E11681 (MD 21481)		MEDION
Device name	E11681 (MD 21481)	
Screen size	39.6 cm (15.6") LCD; 16:9 display	
Power consumption:	Max. 36 W	
Power consumption in standby mode	< 0.50 W	
Speaker output	2 x 3 W RMS	
Physical resolution	1366 x 768	
TV system	Pal B/G, D/K, I; Secam L,L´	
Channel positions	199 (ATV), 6000 (DTV)	


LCD TV E11682 (MD 21482)		MEDION
Device name	E11682 (MD 21482)	
Screen size	39.6 cm (15.6") LCD; 16:9 display	
Power consumption:	Max. 36 W	
Power consumption in standby mode	< 0.50 W	
Speaker output	2 x 3 W RMS	
Physical resolution	1366 x 768	
TV system	Pal B/G, D/K, I; Secam L,L´	
Channel positions	199 (ATV), 6000 (DTV)	

LCD TV E12283 (MD 21483)		MEDION
Device name	E12283 (MD 21483)	
Screen size	54.6 cm (21.5") LCD; 16:9 display	
Power consumption:	Max. 36 W	
Power consumption in standby mode	< 0.50 W	
Speaker output	2 x 3 W RMS	
Physical resolution	1920 x 1080	
TV system	Pal B/G, D/K, I; Secam L,L´	
Channel positions	199 (ATV), 6000 (DTV)	

Mains adapter	
Model number	SUN-1200300B1, ShenZhen SOY Technology Co., Ltd.
Input	AC 100-240V ~ 50/60Hz; 1.2 A
Output	12V --- / 3A; $\oplus \ominus$, 36 W
Car adapter	Model Car adapter 12V/3A, BHSC-16005306, Changzhou Shincobroad Electronic Co., Ltd. Input/output: 12V ---

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

Connections	
	Antenna connection (analogue TV, DVB-T or DVB-C)
	Satellite connection
	1 x USB connection
	Common Interface (CI+) slot
	Video
	1 x HDMI In with HDCP decoding
	1 x SCART
	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, disc (optional)
Supported formats via USB ²	Photo: BMP, JPG, JPEG, PNG
	Music: MP3, FLAC, OGG
	Films: AVI, MKV, MP4, MPEG 1/2/4, MOV, TS, VOB, Xvid, 3GP
	Text: TXT
Capacities	USB max. 1 TB
Supported formats via DVD ² (optional)	Photo: JPG
	Music: MP3, WMA
	Films: MPEG 1/2/4, Xvid, AVI
	Text: TXT
Compatible disc formats (optional)	CD, HDCD, DVD video, DVD+R/RW, DVD-R/RW, CD-R/RW, audio CD
DVD player laser performance (optional)	Class 1 laser
 <p>These days, there are many non-standard ways of recording CDs, copy protection methods, and also a wide variety of blank CD-R and CD-RW discs. This can occasionally lead to read errors or delays. This does not mean that the device is faulty. (optional)</p>	

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%

² The playback of all formats cannot be guaranteed due to the large number of different codecs.

Dimensions/weight E11681 (MD 21481)

Dimensions without stand (W x H x D)	Approx. 375 x 245 x 47 mm
Dimensions with stand (W x H x D)	Approx.. 375 x 288 x 120 mm
Weight without stand	Approx. 1.2 kg
Weight with stand	Approx. 1.3 kg
Mounting on the wall	Vesa standard, hole spacing 75 x 75 mm ³

Dimensions/weight E11682 (MD 21482)

Dimensions without stand (W x H x D)	Approx. 375 x 245 x 57 mm
Dimensions with stand (W x H x D)	Approx. 375 x 278 x 120 mm
Weight without stand	Approx. 1,6 kg
Weight with stand	Approx. 1,7 kg
Mounting on the wall	Vesa standard, hole spacing 75 x 75 mm ³

Dimensions/weight E12283 (MD 21483)

Dimensions without stand (W x H x D)	Approx. 504 x 307 x 83 mm
Dimensions with stand (W x H x D)	Approx. 504 x 345 x 160 mm
Weight without stand	Approx. 2,1 kg
Weight with stand	Approx. 2,3 kg
Mounting on the wall	Vesa standard, hole spacing 200 x 100 mm ³



³ Wall mount supplied. When mounting the device, make sure that you use M4 screws. The length of the screws corresponds to the thickness of the wall mount plus 8 mm.

19. Product Data Sheet

in accordance with Directive 1062/2010

Trademark		MEDION®		
MSN no.	30026638	30026660	30026662	
Model no.	MD 21481	MD 21482	MD 21483	
Energy efficiency class	A	A	A	
Visible screen size (diagonal size, approx.)	39,6 cm (15,6")	39,6 cm (15,6")	54,6 cm (21,5")	
Average power consumption when switched on (in watts)	14	14	22	
Annual power consumption (kWh/year)	21	21	32	
Standby power consumption (in watts)	0,42	0,42	0,34	
Power consumption when switched off (in watts)	---	---	---	
Display resolution (in pixels)	1366 x 768	1366 x 768	1920 x 1080	

20. 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	☎ 0333 3213106
Sat – Sun: 10.00 – 16.00	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.

21. Legal Notice

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Date: 30. April 2019, 11:10 am

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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.

22. Index

A	
A-B Wiederholung.....	64
Antenna	23
B	
Batteries	13, 23, 74
C	
Channel list	54
Channel selection.....	32
Cleaning.....	73
Colour buttons	35
Common Interface (CI)	24
Connection	12
Aerial.....	24
Antenna.....	25
Power supply	24
D	
Device overview	16
Front	16
Rear	17
Display info	33
Disposal.....	74
DVD-Modus.....	61
E	
Environmental temperature.....	11
F	
Favourites list.....	33
G	
Getting started	21
I	
Initial installation	25, 53
M	
Mains adapter	24
Malfunction	70
Media player.....	56
Menu	
Lock.....	51
Option.....	52
Picture	48
Sound.....	49
Time	50
Mounting.....	22
O	
Operation	32
P	
Package contents	6
Pixel faults	72
Power supply	12
Problem.....	70
Programme guide	60
Proper use	5
R	
Remote control	18
Repairs.....	11
S	
Safety information	
Connection.....	12
Installation location	9
Operating safety.....	7
Power supply	12
Satellite	27
Satellite configuration	28
Satellite system	
Satellite.....	44
Transponder.....	46
Screen settings.....	32
Selecting the source.....	34
Sound settings	32
T	
Technical specifications	75
Troubleshooting	70
U	
USB	56

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