21.5“ (54.6 cm) Full HD Caravan TV
MEDION® LIFE® E12200 (MD 21478)
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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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>DANGER! Warning of immediate mortal danger!</td>
</tr>
<tr>
<td>⚠️</td>
<td>WARNING! Warning of possible risk of fatal injury and/or serious irreversible injuries!</td>
</tr>
<tr>
<td>⚠️</td>
<td>CAUTION! Warning: risk of minor or moderate injuries!</td>
</tr>
<tr>
<td>⚠️</td>
<td>NOTICE! Please follow the instructions to avoid property damage!</td>
</tr>
<tr>
<td>📜</td>
<td>Additional information on using the device!</td>
</tr>
</tbody>
</table>
NOTICE!
Please follow the instructions in the operating instructions!

WARNING!
Warning of risk of electric shock!

WARNING!
Warning: danger due to loud volume!

• Bullet point/information on steps during operation

▷ Instructions to be carried out

Declaration of conformity (see section “Declaration of conformity”):
Products that feature this symbol meet the requirements of the EC directives.

Safety class II
Electrical appliances in protection class II are electrical appliances that permanently have double or reinforced insulation and do not have any connection options for a protective earth. The housing of an electrical appliance in protection class II that is enclosed in insulated material can partially or fully act as the additional or reinforced insulation.

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

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

1.3. Full HD
Your Full HD Caravan TV is equipped with the feature “Full HD”. This means that it is capable of displaying high-resolution television programmes (HDTV). The prerequisite for this is a HDTV signal.

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:
• Full HD Caravan TV
• Remote control (RC1244) including 2 batteries (1.5 V AAA)
• YUV adaptor
• AV adaptor
• External power supply (model SOY-1200300B2)
• Stands including screws
• 2 x distance washers for VESA wall mounting
• 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 Full HD Caravan TV and never insert any objects through the slots and openings into your Full HD Caravan TV.
**WARNING!**

**Overheating! Risk of fire!**

Overheating can damage your Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan TV, which can cause an electrical short circuit.

After transporting the Full HD Caravan 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 Full HD Caravan 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 Full HD Caravan TV into earthed 100 - 240 V ~ 50/60 Hz sockets. Contact your electricity provider if you are not sure if the socket is earthed or not.
  − The socket must always be easily accessible so that the mains plug can be quickly disconnected from the socket in the event of an emergency.
  − To disconnect the power supply to your TV, disconnect the mains plug from the mains socket.
- For extra safety, we recommend using an over-voltage protection device to prevent your Full HD Caravan 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 re-charged).
- 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

4.1. Simplified EU Declaration of Conformity

Hereby, MEDION AG declares that the radio equipment type E12200 (MD 21478) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.medion.com/conformity.

4.2. DVD Player

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 device’s safety system.
5. Device overview

5.1. Front

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

1) **COMMON INTERFACE (CI+):** Card slot for connecting pay TV cards
2) **HEADPHONE OUT:** For connecting headphones with 3.5 mm jack
3) **MINI AV:** Audio/video input (via the supplied cinch adaptor)
4) **MINI YPBPR:** YPbPr components input (via the supplied cinch adaptor)
5) **USB (2.0) DC 5V — Max. 500mA:** USB ports for connecting an external storage medium for playing back media/PVR recording.
6) **SPDIF COAX OUT:** Digital audio output (coaxial)
7) **HDMI ARC/CEC:** HDMI port for devices with HDMI output (can be used for CEC/ARC)
8) **RF:** Antenna connection (DVB-T/DVB-T2 HD/DVB-C/analogue)
9) **LNB IN DC 13V/18V — Max. 400mA:** For connecting the antenna (satellite)
10) **SCART:** SCART connection
11) **PC AUDIO:** Audio socket for PC sound playback
12) **PC:** VGA socket for connecting a PC
13) **POWER DC 12V — 3A:** Connection for the power supply adaptor
14) **DVD player**
15) **Fixing holes for a wall mount**
5.3. Remote control
<table>
<thead>
<tr>
<th></th>
<th>LED display for confirming button selection</th>
</tr>
</thead>
</table>
| 2 | **P.MODE**  
    **GOTO**  
Select picture mode  
**DVD:** for selecting a desired section on a DVD |
| 3 | **POWER**  
Open media browser  
**DVD:** select camera position (viewing angle) in the DVD playback |
| 4 | **MEDIA**  
**ANGLE**  
**Open media browser**  
**DVD:** select camera position (viewing angle) in the DVD playback |
| 5 | **REVEAL**  
**Videotext:** reveal hidden text |
| 6 | **AUDIO**  
**LANG**  
**ATV:** Set stereo/mono sound format  
**DTV/Satellite:** Select audio languages.  
**DVD:** select disc language |
| 7 | **SIZE**  
**ZOOM**  
**Videotext:** press once to enlarge top half  
press twice to enlarge bottom half  
**DVD:** zoom function for the DVD player |
| 8 | **SLEEP**  
**Set automatic switch-off function** |
| 9 | **FAV**  
**Call up favourites list.** |
| 10 | **EPG**  
**Digital magazine for television programmes and radio programmes (depending on broadcaster)** |
| 11 | **SOURCE**  
**Select input signal of connected devices** |
| 12 | **− +**  
**Increase (+) or decrease (−) volume.** |
| 13 | **Number buttons**  
**TV:** select channel, **Videotext:** select page |
| 14 | **EJECT**  
**Set previous TV programme**  
**DVD:** Eject button |
| 15 | **D.SETUP**  
**Open videotext;**  
**Press twice:** set transparent;  
**Press three times:** close  
**DVD:** open the menu |
| 16 | **Direction buttons**  
**▲**  
Move up in menu.  
**Videotext:** select the next page.  
**▼**  
Move down in menu.  
**Videotext:** select the previous page.  
**◄**  
Move left in menu.  
**Videotext:** call up subpages.  
**►**  
Move right in menu.  
**Videotext:** call up subpages. |
| 17 | **OK** | Confirm selection in certain menus. Also used to open the channel list. |
| 18 | **P+/-** | Programme selection buttons |
| 19 | **EXIT** | Exiting 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 current programme number and image format |
| 23 | **INDEX**<br>**D.DISP** | Videotext: call up main page DVD: displays information from the inserted DVD, such as chapters, played time, etc. |
| 24 | **SUB.T** | Videotext: open subpages DTV/satellite/media browser: subtitle function DVD: subtitle function for the DVD player |
| 25 | **Colour buttons** |  |
| | **RED**<br>[PROGRAM] | Intended for use in certain menus DVD: program playlist of the DVD player |
| | **GREEN**<br>[INTRO] | Intended for use in certain menus No function |
| | **YELLOW**<br>[REPEAT] | Intended for use in certain menus Media browser: repeat DVD: Setting the playback mode |
| 26 | **Buttons for operating the media browser** |  |
| | ⌦ | Rewind |
| | ▶ | Start playback |
| | ▶▶ | Fast forward |
| | ⏪ | Previous title |
| | | Stop playback |
| | ⏪ | Next title |
| | ● | start PVR recording |
| 27 | 🎥 | No function |
| 28 | 🎁 | Mute |
| 29 | **S.MODE**<br>**D.MENU** | Select sound mode Open and close DVD menu |
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 Full HD Caravan TV.
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 Full HD Caravan TV supports different antenna signals. You can input the following image signals to the television through the socket labelled **RF**:

- Via analogue cable/an analogue house aerial
- Via a DVB-T/DVB-T2\(^1\) antenna or
- Via a DVB-C\(^1\) connection

- Insert the antenna cable either from the house aerial/analogue cable connection, a DVB-T antenna or the DVB-C connection in the antenna socket on the Full HD Caravan 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 Full HD Caravan 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.

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This service must be available in your region
6.5. Common Interface (CI)

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

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

- First insert the CAM module in the slot on the side of the Full HD Caravan 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. Connect the Power Supply Adaptor

- Connect the 3.5 mm jack of the included power supply adaptor model SOY-1200300B2 to the POWER DC IN connection of the device.
- Plug the power cable of the powersupply adaptor into a 100 - 240 V - 50 Hz mains socket

**NOTICE!**

**RISK OF DAMAGE!**

The use of different power supply adaptors may cause damages to the device.

- Please only use the included power supply adaptor.

6.7. Switching the Full HD Caravan TV on and off

- Connect the power supply adaptor to the device and plug it to the mains. The unit will switch to standby off mode when connected to the mains.
- To switch on the unit either press the button \( \) on the remote control or the STANDBY button of the unit.
- Press the button \( \) on the remote control or the STANDBY button of the unit to switch the device over to standby mode again. The unit continues to consume power in this mode.
- Disconnect the power cord from the mains to switch it off completely.

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.
7. Multimedia connections

7.1. Use of the multimedia connections

NOTICE!
Risk of damage!
Incorrect operation can lead to damage to the equipment used.
- Before wiring and use, also read the operating instructions of the devices you are connecting.

NOTICE!
Risk of damage!
If plugs and sockets are connected incorrectly it can cause damage to the contacts.
- Ensure that the plugs and corresponding sockets fit together precisely in order to avoid any damage to the contacts. Due to the arrangement of the contacts, the plug will only fit into the socket in one position.

7.1.1. 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 adaptor (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 adaptor (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.

7.1.6. **USB**
A USB port can be used to connect and read storage media such as USB sticks or external hard drives. Use a suitable USB cable. If a suitable USB cable is included in delivery, you should use this (e.g. for hard drives).
- Connect the corresponding USB ports of the devices used with a USB cable.
  Whenever possible, do not use a USB extension cord as this can cause problems (depending on the voltage).
7.1.7. SPDIF
SPDIF (Sony®/Phillips digital interface) is an interface for transferring digital stereo or multi-channel audio signals between various devices. Usually, the digital audio signal is output via a coaxial (RCA) or an optical connection. Use a suitable, commercially available cable.
- Connect the SPDIF ports of the devices used with a corresponding SPDIF cable.

7.1.8. VGA (PC)
Using the VGA port, you can connect a PC with a monitor/TV set to transmit the video signal. Use a commercially available VGA cable.
- Connect the VGA ports of the devices used with a VGA cable.

7.1.9. VGA (PC) audio
If you have connected a PC to a monitor/TV via the VGA port, the VGA audio connection also allows audio transmission. Use a commercially available stereo mini jack cable.
- Connect the VGA audio ports of the devices used with a stereo mini jack cable.

7.1.10. Headphone out
The headphone socket is used for connecting a pair of headphones with a stereo mini jack connection.
- Connect the headphones to the stereo mini jack of the device. On some devices, this will mute the speakers.
- Otherwise, you should perform all necessary settings in the sound menu to 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.
7.2. First Time Use

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

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

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

- Select an automatic power off time with the directional buttons and press **OK**. In **OFF** mode the device will not switch off automatically.
Select the preferred connection type with the directional buttons and press **OK**.

### 7.2.1. Cable and Antenna

Use the direction buttons to select the reception type:
- **ALL** (search for digital and analogue TV stations);
- **ATV** (search for analogue TV stations);
- **DTV** (search for digital TV stations)

After you have finished making your settings, press **OK**. The search process starts.
7.2.2. Satellite

Use the direction buttons and press OK to select the default preset channel list or to enter the SATELLITE SYSTEM settings:

<table>
<thead>
<tr>
<th>SATELLITE</th>
<th>Select the satellite for which you want to change the settings or carry out a search.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDIT</strong></td>
<td>Press the green button to edit the selected satellite.</td>
</tr>
<tr>
<td>SATELLITE NAME</td>
<td>Use the virtual keyboard to edit the satellite name. Press the direction keys to select the character you require. Press OK to save the new name.</td>
</tr>
<tr>
<td>LONGITUDE DIRECTION</td>
<td>Press the direction buttons ⬅ ➤ to select the orbit position WEST or EAST.</td>
</tr>
<tr>
<td>LONGITUDE ANGLE</td>
<td>Use the number buttons to enter the angle.</td>
</tr>
<tr>
<td>BAND</td>
<td>Select the frequency band KU or C.</td>
</tr>
<tr>
<td>SCAN</td>
<td>Press the blue button to make the settings for the search.</td>
</tr>
</tbody>
</table>
| **SCAN MODE** | Set the search mode.  
**DEFAULT**: A search will be run on the selected satellite, based on the transponder list saved for this satellite. This will take some time.  
**NETWORK SEARCH**: Activate/deactivate the network scan.  
**FULL SEARCH**: A full search will be run on the selected satellite. This will also take into account new transponders that have not been added to the transponders list. Two searches are performed during a blind scan. The first search identifies the satellite's transponders. The second search locates the TV stations. The blind scan takes the longest. |
| **CHANNEL TYPE** | Select the channel type.  
**TV ONLY**: Search for digital TV channels.  
**ALL**: Search for digital TV channels and digital radio stations. |
| **SERVICE TYPE** | Decide which channels you want to search for:  
**FREE SERVICE** or **ALL SERVICES**. |
| **POLARITY** | Press  to select the polarity (only for scan mode **FULL SEARCH**): **AUTO**, **VERTICAL**, **HORIZONTAL**. |

When you have finished entering all your settings, press the OK button. The search on the selected satellite starts.

| **TRANSPONDER** | Select the transponder for which you want to change the settings or carry out a search. |
| **ADD** | Press the red button to add a new transponder. Enter the required values and confirm with OK or press EXIT to cancel the process.  
**FREQUENCY** | Use the number buttons to enter the frequency.  
**SYMBOL (KS/S)** | Use the number buttons to enter the Baud rate.  
**POLARITY** | Press  to select the polarity. |
| **DELETE** | Select the transponder that you want to delete from the list as described above and press the yellow button. Confirm the prompt by pressing YES. |
| **EDIT** | The setting options here are the same as for ADD. |
After you have finished making your settings, press **OK**. The search process starts.

The device will search for the corresponding transmission types in order. Wait until the process is finished. You can use the EXIT button to cancel the search.
8. Operation

8.1. Channel selection

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

8.2. Sound settings

- You can increase or decrease the volume by pressing the volume buttons + (on the remote control) or VOL+/– (on the device).
- Press the mute button 🎤 to switch the volume fully off and on again.
- Use the AUDIO button to select from the available audio languages (audio channels). If the current programme supports DUAL mode (e.g. for dual-language programmes), you can select DUAL mode.
- Use the S.MODE button to switch between the following sound modes: STANDARD, MOVIE, MUSIC, SPEECH, USER. The USER setting is defined in the SOUND > SOUND MODE menu.

8.3. Screen settings

- Use the P.MODE button to switch between the following picture modes: STANDARD, MILD, USER, DYNAMIC. The USER setting is defined in the PICTURE > PICTURE MODE menu.
- Depending on the programme, the pictures are transmitted in the formats 4:3 or 16:9. In the PICTURE > ASPECT RATIO menu you can adjust the picture format:

<table>
<thead>
<tr>
<th>Aspect Ratio</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td>For undistorted picture display in 4:3 format.</td>
</tr>
<tr>
<td>16:9 (not available for ATV)</td>
<td>For undistorted picture display in 16:9 format.</td>
</tr>
<tr>
<td>FULL (only available for ATV)</td>
<td>Expands the display to fill the screen.</td>
</tr>
</tbody>
</table>
### 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. Favourite Channel List

In the **CHANNEL > FAVORITE MANAGEMENT** menu, you can add individual channels to up to four favourites lists. You have to have saved channels in the favourites list before you can open them as described in the following section.

If you have saved channels in the favourites list, you can open them as follows:

- Open the menu by pressing **FAV**.
- Use the direction buttons `◄` `►` to select one of the four favourites lists.
- With the red button you can change the name of the favourites list.
- Use the direction buttons `▲` `▼` to select a programme and open it by pressing **OK**.

---

**ZOOM 1**
The picture is stretched in all directions in level 1.

**ZOOM 2**
The picture is stretched further in level 2.

**PANORAMA** (for DTV CINEMA) (not available for PC): This function zooms a widescreen image (aspect ratio 16:9) to fill the entire screen.

**JUST SCAN** (not available for ATV, AV, YPbPr, PC, MEDIA and DVD): Reduced display of the image.

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

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

- Press the **SOURCE** button (on the remote control or on the device) to call up the source selection list.

- **DTV** TV mode (digital signal)
- **ATV** TV mode (analogue signal)
- **AV** Device on AV input
- **SCART** Device on SCART input
- **YPBPR** Device on the video and audio input components
- **HDMI** Device on HDMI 1 input
- **PC** Device on PC input
- **MEDIA** Playback of media via USB
- **DVD** Integrated DVD 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:

- Menu **PICTURE**
- Menu **SOUND**
- Menu **CHANNEL**
- Menu **FEATURE**
- Menu **SETUP**

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

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICTURE MODE</td>
<td>Select picture mode: <strong>STANDARD, DYNAMIC, MIDDLE, USER</strong>. This function corresponds to the PICTURE button.</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>Increase or decrease brightness (on a scale of 0 – 100).</td>
</tr>
<tr>
<td>CONTRAST</td>
<td>Increase or decrease contrast (on a scale of 0 – 100).</td>
</tr>
<tr>
<td>SHARPNESS</td>
<td>Increase or decrease sharpness (on a scale of 0 – 5).</td>
</tr>
<tr>
<td>COLOUR</td>
<td>Increase or decrease colour (on a scale of 0 – 100).</td>
</tr>
<tr>
<td>TINT</td>
<td>Hue settings only available for NTSC reception.</td>
</tr>
<tr>
<td>COLOUR TEMPERATURE</td>
<td>Select colour temperature: <strong>STANDARD, COOL</strong> and <strong>WARM</strong>.</td>
</tr>
<tr>
<td>ASPECT RATIO</td>
<td>Set the picture format here.</td>
</tr>
<tr>
<td>NOISE REDUCTION</td>
<td>This function reduces picture noise and improves image quality when the signal is weak. Choose between <strong>LOW</strong>, <strong>MIDDLE</strong>, <strong>HIGH</strong> and <strong>OFF</strong>.</td>
</tr>
</tbody>
</table>
10.2. Audio menu

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOUND MODE</strong></td>
<td>Select audio mode: <strong>STANDARD, MOVIE, MUSIC, SPEECH, USER.</strong> This function corresponds to the SOUND button.</td>
</tr>
<tr>
<td><strong>BASS</strong></td>
<td>Increase or decrease bass (on a scale of 0 – 100). This function is only available in <strong>USER</strong> mode.</td>
</tr>
<tr>
<td><strong>TREBLE</strong></td>
<td>Increase or decrease treble (on a scale of 0 – 100). This function is only available in <strong>USER</strong> mode.</td>
</tr>
<tr>
<td><strong>BALANCE</strong></td>
<td>Set the balance between the left and right speakers.</td>
</tr>
<tr>
<td><strong>SURROUND</strong></td>
<td>Activate/deactivate the surround sound effect.</td>
</tr>
<tr>
<td><strong>AVL</strong></td>
<td>The function AVL (Automatic Volume Limiting) compensates for the various volumes of the different channels. If you set to <strong>OFF</strong>, you will hear the original volumes. If you set to <strong>ON</strong>, you will hear a balanced volume.</td>
</tr>
<tr>
<td><strong>SPDIF</strong></td>
<td>Select the SPDIF mode.</td>
</tr>
<tr>
<td><strong>AUDIO DESCRIPTION</strong></td>
<td>Select the settings for the audio description function. If <strong>MODE</strong> is switched to <strong>ON</strong>, you can change the audio description volume.</td>
</tr>
</tbody>
</table>
## 10.3. Channel menu

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHANNEL MANAGEMENT</strong></td>
<td>You will see the currently saved channel here. Each channel can be customised as follows:</td>
</tr>
<tr>
<td>DELETE</td>
<td>Select the channel that you wish to delete and press the <strong>red</strong> button.</td>
</tr>
<tr>
<td></td>
<td>Press the <strong>EXIT</strong> button and confirm your choice by pressing <strong>OK</strong> if you are certain that you want to delete the channel. Select <strong>CANCEL</strong> if you want to cancel the process.</td>
</tr>
<tr>
<td>LOCK</td>
<td>Select the channel that you wish to lock and press the <strong>green</strong> button. The channel lock only works if the <strong>LOCK</strong> function is activated in the <strong>FEATURE</strong> menu.</td>
</tr>
<tr>
<td>SKIP</td>
<td>Select the channel that you want to skip while browsing through the channels by using the <strong>P+/-</strong> buttons and press the <strong>yellow</strong> button.</td>
</tr>
<tr>
<td></td>
<td>You can still select this channel via the numeric pad.</td>
</tr>
<tr>
<td>SWAP</td>
<td>Select the channel and press the <strong>blue</strong> button. Now navigate to the new position using <strong>▲ ▼</strong> and press the blue button again.</td>
</tr>
<tr>
<td></td>
<td>The highlighted channel will change the position with the channel of the new position.</td>
</tr>
</tbody>
</table>

**Entering and Exiting Menu:**

- Enter: Move to the next menu level or select a menu option.
- Exit: Return to the previous menu level or cancel the current selection.
- Return: Go back to the previous menu item or exit the current menu.
FAVORITE MANAGEMENT

In the Favourites Manager you can set up to four favourites lists.

- Use ‼️ ‼️ to select the desired channel. The **CH+◆** buttons bring you direct to the next/previous channel in the channel list.
- Now press the respective colour button to add the channel to one of the four favourites lists (**FAV 1**: red button, **FAV 2**: green button, **FAV 3**: yellow button, **FAV 4**: blue button).
- Close Favourites Management with **EXIT**. The settings are saved.
- Now you can call up your favourites lists by using the **FAV** button.

COUNTRY

Select the required country for the channel search.

TV CONNECTION

Select the TV connection type **SATELLITE, CABLE** or **AIR**.

AUTO SEARCH

Choose the reception type:

- **ALL** (search for digital and analogue TV stations);
- **ATV** (search for analogue TV stations);
- **DTV** (search for digital TV stations)

After you have finished making your settings, press **OK**. Confirm the following query with **OK** if you want to start the channel search. Select **CANCEL** if you want to cancel the process.

DTV MANUAL SEARCH

(DVB-C and DVB-T only)

You can program individual channels in DTV mode manually here.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANNEL</td>
<td>Select the channel number.</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>Select the desired frequency.</td>
</tr>
<tr>
<td>BANDWIDTH</td>
<td>Select the bandwidth.</td>
</tr>
</tbody>
</table>

AIR

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREQUENCY</td>
<td>Select the desired frequency.</td>
</tr>
</tbody>
</table>

CABLE

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYMBOL RATE</td>
<td>Select the symbolrate.</td>
</tr>
<tr>
<td>MODULATION</td>
<td>Select the modulation.</td>
</tr>
</tbody>
</table>

Select **START** and press **OK** to start the manual search. The **STRENGTH** and **QUALITY** of the signal is displayed in percent.
<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATV MANUAL SEARCH (only in ATV mode)</td>
<td>You can program individual channels in ATV mode manually here..</td>
</tr>
<tr>
<td>CURRENT CHANNEL</td>
<td>Use this to select the channel you would like to address..</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>Frequency of the current channel</td>
</tr>
<tr>
<td>SEARCH</td>
<td>Start the channel search with ← →</td>
</tr>
<tr>
<td>FINE TUNE</td>
<td>Press ← → to carry out the fine adjustment.</td>
</tr>
<tr>
<td>COLOR SYSTEM</td>
<td>PAL, SECAM, AUTO. For Australia, the colour system is set to PAL.</td>
</tr>
<tr>
<td>SOUND SYSTEM</td>
<td>BG, DK, I</td>
</tr>
<tr>
<td>SAVE</td>
<td>Press the red button to save your settings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SATELLITE SYSTEM (DVB-S only)</th>
<th>SATELLITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDIT</td>
<td>Press the green button to edit the selected satellite.</td>
</tr>
<tr>
<td>SAT- ELLITE NAME</td>
<td>Use the virtual keyboard to edit the satellite name. Press the direction keys to select the character you require. Press OK to save the new name.</td>
</tr>
<tr>
<td>LONGITUDE DIRECTION</td>
<td>Press the direction buttons ← → to select the orbit position WEST or EAST.</td>
</tr>
<tr>
<td>LONGITUDE ANGLE</td>
<td>Use the number buttons to enter the angle.</td>
</tr>
<tr>
<td>BAND</td>
<td>Select the frequency band KU or C.</td>
</tr>
<tr>
<td>SCAN</td>
<td>Press the blue button to make the settings for the search.</td>
</tr>
<tr>
<td>Menu Item</td>
<td>Setting</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>SCAN MODE</strong></td>
<td>Set the search mode. <strong>DEFAULT</strong>: A search will be run on the selected satellite, based on the transponder list saved for this satellite. This will take some time. <strong>NETWORK SEARCH</strong>: Activate/deactivate the network scan. <strong>FULL SEARCH</strong>: A full search will be run on the selected satellite. This will also take into account new transponders that have not been added to the transponders list. Two searches are performed during a blind scan. The first search identifies the satellite's transponders. The second search locates the TV stations. The blind scan takes the longest.</td>
</tr>
<tr>
<td><strong>CHANNEL TYPE</strong></td>
<td>Select the channel type. <strong>TV ONLY</strong>: Search for digital TV channels. <strong>ALL</strong>: Search for digital TV channels and digital radio stations.</td>
</tr>
<tr>
<td><strong>SERVICE TYPE</strong></td>
<td>Decide which channels you want to search for: <strong>FREE SERVICE</strong> or <strong>ALL SERVICES</strong>.</td>
</tr>
<tr>
<td><strong>POLARITY</strong></td>
<td>Press <strong>AB</strong> to select the polarity (only for scan mode <strong>FULL SEARCH</strong>): <strong>AUTO</strong>, <strong>VERTICAL</strong>, <strong>HORIZONTAL</strong>.</td>
</tr>
<tr>
<td><strong>TRANSPONDER</strong></td>
<td>Select the transponder for which you want to change the settings or carry out a search.</td>
</tr>
<tr>
<td><strong>ADD</strong></td>
<td>Press the <strong>red</strong> button to add a new transponder. Enter the required values and confirm with <strong>OK</strong> or press <strong>EXIT</strong> to cancel the process.</td>
</tr>
<tr>
<td><strong>FREQUENCY</strong></td>
<td>Use the number buttons to enter the frequency.</td>
</tr>
<tr>
<td>Menu Item</td>
<td>Setting</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SYM-BOL (KS/S)</td>
<td>Use the number buttons to enter the Baud rate.</td>
</tr>
<tr>
<td>POLARITY</td>
<td>Press ← → to select the polarity.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Select the transponder that you want to delete from the list as described above and press the yellow button. Confirm the prompt by pressing YES.</td>
</tr>
<tr>
<td>EDIT</td>
<td>The setting options here are the same as for ADD.</td>
</tr>
<tr>
<td>SCAN</td>
<td>The setting options here are the same as for SCAN under SATELLITE.</td>
</tr>
<tr>
<td>SETTING</td>
<td></td>
</tr>
<tr>
<td>LNB TYPE</td>
<td>Enter the oscillator frequency for your LNB type here.</td>
</tr>
<tr>
<td>LNB POWER</td>
<td>Set the LNB power here.</td>
</tr>
<tr>
<td>22KHZ</td>
<td>Set the sound here. The default setting is AUTO.</td>
</tr>
<tr>
<td>TONE-BURST</td>
<td>If your satellite system requires a tone burst, you can set it to BURST A or B here.</td>
</tr>
<tr>
<td>DISEQC 1.0/1.1</td>
<td>If you have connected multiple LNBs or a DiSEqC switch to your satellite aerial, set the LNB you require here.</td>
</tr>
<tr>
<td>MOTOR</td>
<td>If your satellite antenna is controlled by a motor, press ← → to select the DiSEqC version. Press the OK button to define the position of the antenna.</td>
</tr>
<tr>
<td>UNICA-BLE</td>
<td>Activate this option to make the following unicable setting.</td>
</tr>
<tr>
<td>IF FREQ</td>
<td>This is where you specify a particular channel.</td>
</tr>
<tr>
<td>SAT POS-ITION</td>
<td>Chose the desired satellite position SAT A or SAT B.</td>
</tr>
<tr>
<td></td>
<td>To start the search, press the blue button (SCAN) and then confirm with OK.</td>
</tr>
</tbody>
</table>
### 10.4. Feature menu

<table>
<thead>
<tr>
<th>Feature</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter Exit Menu</td>
<td>Enter</td>
</tr>
<tr>
<td>Lock</td>
<td>ENTER</td>
</tr>
<tr>
<td>Language</td>
<td>ENTER</td>
</tr>
<tr>
<td>Clock</td>
<td>ENTER</td>
</tr>
<tr>
<td>Sound</td>
<td>Sleep Timer</td>
</tr>
<tr>
<td>Channel</td>
<td>Auto Power Off</td>
</tr>
<tr>
<td>Feature</td>
<td>Hearing impaired</td>
</tr>
<tr>
<td>Setup</td>
<td>CI Info</td>
</tr>
<tr>
<td></td>
<td>PVR/Timeshift</td>
</tr>
</tbody>
</table>

#### Menu Item Setting

<p>| LOCK | You can use this to activate the settings <strong>LOCK ENABLE</strong>, <strong>PARENTAL GUIDANCE</strong> and <strong>HOTEL MODE</strong>. You need to enter the password. The default password is: <strong>0000</strong>. Make a note of the new password. It will not be reset if you restore the factory settings. Use <strong>8899</strong>, the master password, if you have forgotten your password. |
| LOCK CHANNEL | Activate/deactivate the lock function. |
| PARENTAL GUIDANCE | Here you can select the age. This option is only available in DTV mode. Only available if the <strong>LOCK CHANNEL</strong> is activated. |
| CHANGE PIN CODE | An input field for entering the passwords will appear. Use the number buttons to enter the existing password. Delivery state: <strong>0000</strong>. Enter a new four-digit password. |
| OLD PASSWORD | |
| NEW PASSWORD | |</p>
<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CON-FIRM NEW PASS-WORD</strong></td>
<td>Enter the new password again. The appropriate message will appear.</td>
</tr>
</tbody>
</table>

| **LANGUANGE** | **OSD LANGUAGE** | Select the language of the OSD menu or of the TT language. It will change immediately. |
| **PREFERRED SUBTITLE** | Select the preferred subtitle language |
| **PREFERRED AUDIO** | Select the preferred audio language |
| **DTV TELE-TEXT LANGUAGE** | Select the DTV teletext language |
| **ATV TELE-TEXT LANGUAGE** | Select the ATV teletext language |

| **CLOCK** | **DATE/TIME** | Displays the set date and time. These entries cannot be changed. |
| **TIME ZONE** | Use ▲▼ to select the required value. The current time will be adjusted accordingly. |
| **DST** | Activate/deactivate summer time. |

| **SLEEP TIMER** | Here you can set the time interval for the sleep timer. Once the interval has been reached, the TV set switches itself off. |

| **AUTO POWER OFF** | Here you can set the time after which the Full HD Caravan TV automatically switches itself off if no operation has been made via the operating panel or the remote control within the set time. This is a function which helps protect the environment. |

| **HEARING IMPAIRED** (not in ATV mode) | If the station transmits special audio signals for the hearing impaired, you can set the setting to ON to receive these signals. This option is only available in DTV mode. |
You will have to register with the respective provider in advance, if you wish to watch channels with costs. 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 Full HD Caravan TV in the following way:

- Switch the Full HD Caravan TV off and pull out the mains plug.
- Place the CAM Module in the insertion position on the back of the Full HD Caravan TV first. Then, insert the card.

Pay attention to the fact that you must only insert or remove the CI Module if the device is in the STANDBY Mode or has been separated from the electricity network. The CAM Module must be inserted correctly; it cannot be inserted incorrectly. The CAM Module or the television device can be damaged if you attempt to push in the CAM Module with force.

- Connect the Full HD Caravan TV to the electricity supply, switch it on and wait for a moment until the card is recognized.

Some setting steps, which you can carry out in the CI Info menu, are necessary in addition in the case of some CAM Modules.

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
</table>
| **CI INFO** | You will have to register with the respective provider in advance, if you wish to watch channels with costs. 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 Full HD Caravan TV in the following way:  
- Switch the Full HD Caravan TV off and pull out the mains plug.  
- Place the CAM Module in the insertion position on the back of the Full HD Caravan TV first. Then, insert the card.  
Pay attention to the fact that you must only insert or remove the CI Module if the device is in the STANDBY Mode or has been separated from the electricity network. The CAM Module must be inserted correctly; it cannot be inserted incorrectly. The CAM Module or the television device can be damaged if you attempt to push in the CAM Module with force.  
- Connect the Full HD Caravan TV to the electricity supply, switch it on and wait for a moment until the card is recognized. Some setting steps, which you can carry out in the CI Info menu, are necessary in addition in the case of some CAM Modules. |
| **PVR/TIMESHIFT** | **FORMAT**  
Press the red button to format the USB storage medium. |
| **PARTITION SELECT** | **SET DEFAULT PARTITION**  
Press the green button to select the preset folder as storage location for recordings. |
<p>| <strong>AUTO TIMESHIFT</strong> | Activate the automatic timeshift function (<strong>AUTO</strong>). |
| <strong>TIMESHIFT BUFFER</strong> | Here you can set the duration of a timeshift recording (<strong>AUTO, 30 MINS, 1HR, 2HR</strong>) |</p>
<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIMER (not in ATV mode)</td>
<td>In this menu you will see an overview of all of the timer recordings that you have programmed.</td>
</tr>
<tr>
<td><strong>DEL</strong></td>
<td>Select the programmed timer recording that you want to delete.</td>
</tr>
<tr>
<td><strong>DEL ALL</strong></td>
<td>With this function you can delete all of the programmed timer recordings.</td>
</tr>
<tr>
<td><strong>ADD</strong></td>
<td>Save a new timer recording.</td>
</tr>
<tr>
<td><strong>RECORDER</strong></td>
<td>Activate/deactivate timer recording function</td>
</tr>
<tr>
<td><strong>TYPE</strong></td>
<td>Select the reception type DTV or RADIO.</td>
</tr>
<tr>
<td><strong>CHANNEL</strong></td>
<td>Select the required channel.</td>
</tr>
<tr>
<td><strong>START TIME</strong></td>
<td>Select the start time.</td>
</tr>
<tr>
<td><strong>DURATION</strong></td>
<td>Select the duration.</td>
</tr>
<tr>
<td><strong>DATE</strong></td>
<td>Select the date.</td>
</tr>
<tr>
<td><strong>MODE</strong></td>
<td>Set whether you want the timer recording to be once, daily or weekly.</td>
</tr>
<tr>
<td><strong>EDIT</strong></td>
<td>Changes to existing timer recordings can be made here.</td>
</tr>
<tr>
<td><strong>RECORD LIST</strong></td>
<td>Call up the recording list. You can delete the selected recordings with the red button (DELETE).</td>
</tr>
<tr>
<td><strong>RECORDER START</strong></td>
<td>Press OK to start the recording. You can also do this directly on the remote control via the REC button.</td>
</tr>
<tr>
<td><strong>HDMI LINK</strong></td>
<td>Enable the HDMI connection for CEC/ARC application. Arrange settings for AUTO POWER ON, AUTO STANDBY, SPEAKER PREFERENCE and AMPLIFIER SUPPORT ARC.</td>
</tr>
</tbody>
</table>
## 10.5. Setup menu

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSD TIMER</strong></td>
<td>Set the time after which the OSD menu will close automatically.</td>
</tr>
<tr>
<td><strong>AUTO SCART</strong></td>
<td>Activate/deactivate the auto SCART function.</td>
</tr>
<tr>
<td><strong>PC SETUP</strong></td>
<td>Change the PC settings in PC mode.</td>
</tr>
<tr>
<td>AUTO ADJUST</td>
<td>If you want to shift the image, select <strong>AUTO ADJUST</strong> and press <strong>OK</strong> to move it back to the centre. This should be done in the full image mode to ensure the settings match.</td>
</tr>
<tr>
<td>H POSITION</td>
<td>You can use ‱ to change the horizontal position of the picture.</td>
</tr>
<tr>
<td>V POSITION</td>
<td>You can use ‱ to change the vertical position of the picture.</td>
</tr>
<tr>
<td>PHASE</td>
<td>If the PC picture is not clear, you can use ‱ to adjust the picture signal to suit the Full HD Caravan TV pixels. This will result in a clear image with an even, sharp display.</td>
</tr>
<tr>
<td>CLOCK</td>
<td>With this setting, the picture signal is synchronised to match with the monitor’s pixel rate. This corrects errors that can appear as vertical stripes in pixel-dense images (like tables or text with small fonts). Set the pixel frequency using ‱.</td>
</tr>
<tr>
<td><strong>BLUE SCREEN</strong></td>
<td>If the Full HD Caravan TV is not receiving a signal, the screen will turn blue instead of displaying the “snow” or a black background.</td>
</tr>
<tr>
<td><strong>ECO MODE</strong></td>
<td>Chose the option <strong>STANDARD, LOW, MIDDLE or HIGH</strong> to adjust the backlight.</td>
</tr>
<tr>
<td>Menu Item</td>
<td>Setting</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RESET TV SETTING</td>
<td>Restore the factory settings here. This allows you to reset the device or the memory.</td>
</tr>
<tr>
<td>SOFTWARE UPGRADE</td>
<td>Here you can carry out a software update for the device with the help of a USB storage medium.</td>
</tr>
</tbody>
</table>

11. Media Mode

The Full HD Caravan TV comes with 1 USB port (rear) that can be accessed via Media mode.

11.1. Media Mode and USB Connectivity

- Plug in your external USB device (USB memory stick, external hard disk drive) into the USB port of the TV. Drive numbers (C:, D:, E:, etc) will be allocated depending on the partitions of the USB device (e.g. an external hard disk drive might have several partitions). For the definition of how drive numbers are assigned, please see “Drive Assignment Definition” below. (Please note that external USB memory devices of a capacity of up to 1 TB are supported. However, not all brands and drivers of external USB memory devices might be compatible with this Full HD Caravan TV)

- You can select the drive for your recording session.

- Please note that the external USB device needs to be formatted first before the recording can be done. To do this, under DTV mode, in the OSD, go to PVR/TIMESHIFT page then select PARTITION SELECT and FORMAT.

- Select disk drive by pressing OK.

- At the next screen you will have option to select USB device if there is more then one and to select drive with directional pad on the remote control (C:, D:, etc)

- Press OK to format.

- You can select to format the USB device into FAT32 file system or High Speed FS system by using directional pad on the remote control:
  - FAT32 is suitable for USB thumb drive (USB memory sticks) that will format the entire USB drive completely. (Attention: All data currently on the USB memory stick will be lost. Please save your data on your external USB memory stick prior to using it as a recording device)
  - High Speed FS is suitable for external USB hard disk drives that will allow choosing how large a new partition allocated for recording will be.
  - While recording, on your external USB device a new folder will be created labelled PVR.

- The OSD will show the file format and size selected, how many minutes of the TV program can be recorded in either SD quality or HD quality from the source media.

- After selecting the system type and size, press OK again will start the formatting.
After the USB device has been formatted, it can be used for recording under DTV mode.

The default recording drives will always be C:\, unless different drive is selected using method from 2-7.

The recording function can be achieved in 2 ways:
- Press the REC button directly while watching DTV programs.
- Go to PVR/TIMESHIFT page then select RECORDER START

11.2. Recording via REC Button

While watching DTV programs, press the REC button on the remote control. A symbol for recording will be shown in the upper left-hand corner of your screen. Make sure that the allocated capacity for the recording is sufficient to complete the recording of the program you want to save. (The capacity is determined by how large the formatted PVR file folder is allocated, or how large the USB thumb drive can support.)

11.2.1. Time Shift Function
- During any recording, you can press the PLAY button to start watching the program that is being recorded. The recording itself will continue in the background while you can watch the recorded program from the start.
- While watching/playing the recording program this way, you can use all the media functions (fast forward, fast backward and pause etc) for the playback.
- Press the STOP button to stop the watching session and return to the recording interface.

11.3. Switching between TV Mode and Media Mode
- Use SOURCE to call up the source selection list.
- Use the direction buttons ▼ ▲ to go to Media.
- Confirm your selection by pressing OK.
- Repeat this process to return to TV mode but, instead of selecting Media, choose the option ATV or DTV, depending on the type of signal.
11.4. Media Menu System

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

Certain types of USB devices may not be compatible with this Full HD Caravan 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. In particular, you should not plug in and unplug the USB device several times in quick succession.

11.5. Media Player Access

- Connect the USB storage medium to the USB connection on the side of the device.
- Press the MEDIA button.
- or
- Press the SOURCE button and use ▲▼ to select the source MEDIA.
- Press OK to confirm.

11.6. Media Player Menu

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

- The following options are available:
  - PHOTO – for photo playback
  - MUSIC – for music file playback
  - MOVIE – for video file playback
  - E-BOOK – for text file playback
- Use ▲▼ 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 of the respective media PHOTO, MUSIC, MOVIE, E-BOOK you can delete an object using the red button. Use the green button to delete or accept all the files in the playlist.

To leave the media player, press the SOURCE button and select another source (if required).
11.7. Display of Photos / Images
If you select PHOTO from the main menu, all the available image files will be filtered and displayed on the screen.

- If there are several folders on the storage medium, use ← → ↑ ↓ to select the folder and confirm with OK.
- Use ← → ↑ ↓ to select the required photo and press OK to select it for the playlist. You can select several photos for the playlist using OK. You can also use OK to remove already selected photos from the playlist.
- By pressing the ▶ II button, the previously selected photo will be shown.
- During playback press OK to call up the playback options.
- Use the ← → buttons to select an option and confirm with OK.
  - PLAY/PAUSE ◄ / ▶ : Start/pause the slide show
  - STOP ■ : Stop slide show playback
  - NEXT/PREVIOUS |/| : Show next/previous photo
  - ROTATE -/+ (): Rotates the selected photo by 90 degrees clockwise/anti-clockwise
  - ZOOM : Zoom in/out of the selected photo
  - INFO : Shows information about the displayed photo
  - PHOTO SETUP : Edit the following options:
    - REPEAT MODE: Set the repeat function for the slide show
    - BACKGROUND MUSIC: Turn background music on/off
    - MUSIC SOURCE: Select a source for the background music
    - SLIDE TIME: Set display time for the photos
    - EFFECT: Turn effects on/off
      - PLAYLISTS : Shows the photo playback list
- The buttons on the remote control can also be used for playing back files.
- Press the EXIT button to return to the previous menu.

11.8. Audio Playback
If you select MUSIC from the main menu, all the available music files will be filtered and displayed on the screen.

- If there are several folders on the storage medium, use ← → ↑ ↓ to select the folder and confirm with OK.
- Use ← → ↑ ↓ to select the required music track and press OK to select it for the playlist. You can select several tracks for the playlist using OK. You can also use OK to remove already selected tracks from the playlist.
- By pressing the ▶ II button, the previously selected music track will be played. Below the playback window you will find the playback options.
Use the \( \uparrow \downarrow \) buttons to select an option and confirm with OK.

- **PLAY/PAUSE** \( / \) : Start/stop music playback
- **STOP** \( \) : Stop playback of the music track
- **FB/FF** \( \leftarrow / \rightarrow \) : Fast rewind/forward
- **PREVIOUS/NEXT** \( \downarrow / \uparrow \) : Play back previous/next track
- **GOTO TIME** \( \) : Jump to a specific time within a track
- **REPEAT MODE** \( \) : Set the repeat function for the tracks
- **INFO** \( \) : Shows information about the selected track
- **DISPLAY ON/OFF** \( \) : Switch the TV display on/off and the back light (the blue button has the same function)
- **QUICK MENU** \( \) : Under **Encode Type** you can chose the text encoders for audio text.

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

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

### 11.9. Video Playback

If you select **MOVIE** from the main menu, all the available video files will be filtered and displayed on the screen.

- If there are several folders on the storage medium, use \( \uparrow \downarrow \) to select the folder and confirm with OK.
- Use \( \uparrow \downarrow \) to select the required video and press OK to select it for the playlist. You can select several videos for the playlist using OK. You can also use OK to remove already selected videos from the playlist.
- By pressing the \( / \) button, the previously selected video will be played.
- During playback press OK to call up the playback options.
- Use the \( \uparrow \downarrow \) buttons to select an option and confirm with OK.

- **PLAY/PAUSE** \( / \) : Start/stop video playback
- **STOP** \( \) : Stop playback of the video
- **FB/FF** \( \leftarrow / \rightarrow \) : Fast rewind/forward
- **SLOW MOTION** \( \) : Slow motion playback
- **STEP** \( \) : Frame advance
- **SET A-B** \( \) : Repeats a certain section of a video
- **PREVIOUS/NEXT** \( \downarrow / \uparrow \) : Show previous/next video
- **PLAYLISTS** \( \) : Shows the video playback list
- **INFO** \( \) : Shows information about the displayed video file
- **MOVIE SETUP** \( \) : Edit the following options:
  - **PROGRAM**: Make programming settings
  - **SUBTITLE**: Switch subtitles on/off
  - **AUDIO**: Make audio settings
  - **QUICK MENU**: Under **Encode Type** you can chose the text encoders for subtitles.
  - **REPEAT MODE**: Set the repeat function for the videos
- **GOTO TIME** 📆: Start video from a certain time point
- The buttons on the remote control can also be used for playing back files.
- Press the EXIT button to return to the previous menu.

### 11.10. Text Playback

If you select **E-BOOK** from the main menu, all the available text files will be filtered and displayed on the screen.

- If there are several folders on the storage medium, use ⬅️ ⬅️ ⬆️ ⬆️ to open the folder and confirm with **OK**.
- Use ⬅️ ⬅️ ⬆️ ⬆️ to select the required text and press **OK** to select it for the playlist. You can select several texts for the playlist using **OK**. You can also use **OK** to remove already selected texts from the playlist.
- Press the ⬅️ ⬅️ button to display the previously selected text.
- The following options are available:
  - **RED BUTTON**: Add/remove bookmarks
  - **GREEN BUTTON**: Jump to a specific location within a document
  - **YELLOW BUTTON**: Open/close overview of all bookmarks
  - **BLUE BUTTON**: Shows the text document playback list
  - **PAGE +/-**: Turn page forward/back
- The buttons on the remote control can also be used for playing back files.
- Press the EXIT button to return to the previous menu.

### 12. PVR Function

You can use your Full HD Caravan TV to record TV programmes on a USB storage medium (e.g. USB stick). You can store recordings directly, after a time delay or according to programmed settings. Channels that are encrypted with a CI+ module cannot be recorded.

Before it is possible to make a recording, you must make the required settings in the **FEATURE > PVR/TIMESHIFT** menu.

#### 12.1. Direct Recording (Start/Stop)

- Start by selecting the TV channel that you want to record.
- Press the **REC** button. The recording starts.
- To stop the recording, press **STOP**. A prompt appears. Stop the recording with **YES** or press **NO** to continue recording.

#### 12.2. Scheduled Recording

You can programme broadcasts and record them at a predefined time, see **FEATURE > PVR/TIMESHIFT > TIMER** menu.
12.3. Playback of Recorded Files

Recordings are played back via the media player. All programmes can be found via the RECORD LIST on the corresponding data storage medium.

13. EPG - Program Guide

Open the Electronic Program Guide with the EPG button. This function will only be available to you in the DTV Mode.

You will see the current and the next station in the Table.

- Select a program with ▲▼.
- Go to the program guide of the program selected with ▶.
- Scroll through the stations with ▲▼.
- Use the EXIT button to exit the programme guide.

The program information displayed is created by the broadcaster. It will not be an error in your Full HD Caravan TV if no program information is shown.

The following Table shows the options for the PROGRAM GUIDE:

<table>
<thead>
<tr>
<th>Button</th>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red button</td>
<td>DAILY/WEEKLY</td>
<td>Changes the programme guide display (daily/weekly view)</td>
</tr>
<tr>
<td>Green button</td>
<td>REMINDER</td>
<td>Pressed once: Adds a reminder for the selected programme to the timer list. As soon as the programmed time is reached, the device automatically switches to the programmed broadcast. Pressed twice: Adds a timer recording to the recording list. As soon as the programmed time is reached, the device automatically starts recording the programmed broadcast.</td>
</tr>
<tr>
<td>Yellow button</td>
<td>PREV DAY</td>
<td>Browses to the view of the previous day. By pressing the button repeatedly, you can browse back through several days (but not before the current day).</td>
</tr>
<tr>
<td>Blue button</td>
<td>NEXT DAY</td>
<td>Browses to the view of the next day. By pressing the button repeatedly, you browse forwards through several days.</td>
</tr>
<tr>
<td>INFO</td>
<td>INFO</td>
<td>Shows a detailed description of the selected programme (if available) Press the button again to hide the description.</td>
</tr>
</tbody>
</table>
14. DVD Mode
The built-in DVD player is run in DVD mode.

14.1. Switching from TV to DVD mode
› Use SOURCE button to open the source selection list.
› Use the direction buttons ▼ ▲ to go to DVD.
› Confirm your selection with OK.
› To return to TV mode, repeat this process. But instead of DVD, now select the option ATV or DTV, depending on the type of signal.

14.2. Inserting a DVD
The built-in DVD player drive only plays media (discs) with a 12 cm diameter. Do not insert media with a smaller or larger diameter into the DVD tray to avoid damaging the device.

You must insert the DVD with the printed side facing towards the rear (the rear of the Full HD Caravan TV). To enable you to insert a DVD into the DVD tray, the Full HD Caravan TV must be in DVD mode.

› Insert the DVD in the slot with the printed side facing the rear. If the TV is in DVD mode, the DVD will be automatically recognised and drawn into the machine. The display CLOSE appears on the screen followed by LOADING. Normally, the DVD will start to play automatically.

In some cases, you may need to start the playback manually.

14.3. Button function

14.3.1. Special screen message
⚠️ If you select a function that is not available on the inserted media or cannot be accessed in the current mode, the not valid symbol shown to the left will be displayed. The symbol disappears after a few seconds.

14.3.2. PLAY
› Press the ‣ (PLAY) button to start or pause playback. To resume playback, press the ‣ (PLAY) button again.
14.3.3. **STOP**
- Press ■ (STOP) once to stop the playback. In this mode you can continue the playback from the same place using ▶ (PLAY).
- Press ■ (STOP) again to completely stop the DVD. The device is now in stop mode.

14.3.4. **SKIP**
- During playback, press the SKIP ◀ or ▶ button to jump backwards or forwards (in DVDs: from chapter to chapter; otherwise: from title to title).
  Please note: on many DVDs, it is not possible to skip the track/chapter before the actual film starts (see licence notes).

14.3.5. **Fast forward/rewind**
- Press the ◀ or ▶ button during playback to fast forward or rewind. The speed increases if you press the button repeatedly: 2X > 4X > 8X > 16X > 32X. Pressing the button again or pressing ▶ (PLAY) returns to normal playback speed.

14.3.6. **Audio Settings (Language)**
- Press LANG. repeatedly to select another audio setting on the DVD (e.g. two-channel audio or 5.1 channel surround sound) or the required spoken language. The change is made immediately and does not need to be confirmed.
  Please note that this function is not available on all DVDs.

14.3.7. **Subtitle (Language)**
- Press the SUB.T button repeatedly to select a different subtitle language – if subtitles are available on the DVD. The change is made immediately and does not need to be confirmed.

14.3.8. **DVD Player Menu**
Using the red button and D.DISp, you can open the menus stored on the DVD. The D.DISp button usually opens the main menu and the red button the track menu. You navigate through the items in the DVD menus using the direction buttons. Confirm each selection with OK.
  Please note, it will depend on the DVD as to which requests open which menus.
14.4. Navigating between Audio & Picture (MP3 & JPEG)

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

- Insert an MP3 or JPEG CD into the player. A menu appears on the screen, showing the top-level folder structure.
  - If the data medium contains folders, they are listed above each other here.
  - An MP3 file is displayed by an MP3 symbol.
  - The surface of the active folder or file is shaded orange. The total number of the files in the folder appears in the top row.
- Use the arrow keys ▲ ▼ to navigate to a folder and confirm your selection with OK.
  - The other sub-folders may also be opened (if available). In this case, you can return to the higher-level menu, using the left arrow key ◄ or via the top menu item.
- To listen to a particular track or view a particular picture, select it and confirm with ▶ (PLAY) or OK.

JPEG Files (Photos & 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 image full-screen. All of the images within the active folder will be displayed in succession after the selected image (“slide show”).
- Pressing the ◄ ► direction buttons during playback rotates the image.

Please note that it may not be possible to display extremely large images.

14.5. DVD Player Setup

- In DVD mode, press the D.SETUP button. The SETUP menu main page appears on the screen. The following menus are active in DVD mode:
  
  GENERAL SETUP PAGE
  AUDIO SETUP PAGE
  DOLBY DIGITAL SETUP
  PREFERENCE PAGE

14.5.1. Navigating in the Menus

- Choose between the menus using ▲ ▼. The active menu is shaded orange. Use ◄ ► to select the menu options. The selectable options are displayed on the right-hand side. The active setting is highlighted in brown.
- To change a setting, use ▶ to go to the right side and use ◄ ► to choose another item. Press OK to confirm.
- Press ◄ to return to the higher level menu.
- You can leave the setup menu at any time by pressing D.SETUP.
14.5.2. Menu: General Setup Page

TV Display Mode
Here you set the unit’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 at full height; 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 width of the screen.

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

OSD Language
Here you can set 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. When you reinsert the same DVD into the device, playback resumes automatically from the same position. The last position on the DVD will be remembered even if the device is switched off.

14.5.3. Menu: Audio Setup Page
Select the AUDIO SETUP PAGE menu item to set the SPEAKER SETUP.

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

LT/RT: Choose this setting if you wish to play surround sound.

STEREO: This option produces stereo sound. Choose this setting when the sound is only being output via two speakers.
14.5.4. Menu: Dolby Digital Setup

**Dynamic**
The Dolby Digital sound format supports a dynamic setting which you can use to set the volume difference between quiet and loud passages on a scale of **OFF** to **FULL** in nine steps.

**OFF:** The sound is reproduced without changes, i.e. loud passages and bass sounds are loud and quiet passages are quiet (cinema sound). This setting is only appropriate if nobody will be disturbed.

**FULL:** Volume differences are minimised, i.e. loud passages are quieter and quiet passages are louder. This setting is appropriate, for example, at night.

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

14.5.5. Menu: Preference Setup Page

**TV type**
Select the colour standard of your television here:

- **PAL:** Usual colour format in many European countries.
- **MULTI:** Format is set automatically.
- **NTSC:** Usual colour format in North America.

**Audio**
The DVD’s default language track is preset here, provided the DVD has multiple language tracks.

**Subtitle**
Here you can set the default language for the subtitles stored on the DVD, provided it contains subtitles.

**Disc Menu**
Here you can choose the language for the menus stored on the DVD, provided multiple languages are available on the disc.
Parental
You can set the authorisation level for DVDs (parental control) here.
Some DVDs and CDs are coded with the encryption signals of the authorisation
classes established by the Motion Picture Association. The eight authorisation class-
es are:

1 **KID SAF**: Suitable even for small children;
2 **G**: For all age groups;
3 **PG**: Recommended from age six, under parental guidance;
4 **PG13**: Recommended from age 12;
5 **PGR**: Recommended for children aged 16+, under parental guidance;
6 **R**: Not suitable for under 16s;
7 **NC17**: Not suitable for under 18s;
8 **ADULT**: Adults only.

For example, if you have inserted a DVD that is coded with authorisation class 7
(18+) or 8 (**ADULT**) and you have selected authorisation classes 1 to 6, a message
appears and the viewer must enter a password. Parts of a DVD – certain scenes, for
example – may also be encoded with an authorisation class or a range of authorisa-
tion classes.

Password
Here you can set the password for activating or changing the authorisation classes.

- Confirm the **CHANGE** entry with **OK**.

**OLD PASSWORD**: Enter the existing password using the number keys on the re-
 mote control. It comprises exactly four digits. If no password has been entered, the
default password is valid: **8888**. If you have entered the correct password, the next
field is activated for your entry.

**NEW PASSWORD**: Enter a four-digit password using the number keys on the re-
mote control. The selection moves to the next field.

**CONFIRM PWD**: Enter the four-digit number again.

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

If you forget the new password, enter the master password **8888**.

Default

- Confirm the **RESET** twice with **OK** to restore the device to its factory settings.

  Please note that changed passwords will not be reset!
# 15. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Corrective action</th>
</tr>
</thead>
</table>
| **There is no picture and no sound.**                 | • Check if the power cable is inserted in the socket properly.  
  • Check if the signal reception is set to **TV**.                                                   |
| **There is no AV picture.**                           | • Check to ensure that the contrast and brightness settings are correct.  
  • Check to ensure that all external devices have been connected properly.  
  • Check to ensure that you have selected the correct AV source.                                     |
| **There is no sound.**                                | • Ensure that the volume has not been set to the minimum level.  
  • Ensure the mute setting is not active. Do this by pressing the button with the crossed out loudspeaker symbol on the top left of the remote control.  
  • Check whether headphones are connected.  
  • If you have connected a satellite receiver or DVD player to the television via a SCART cable, check whether the cable has been connected to the SCART socket properly. |
| **There is no picture and no sound. I can hear noise, though.** | • The reception might be poor. Check if the antenna is connected properly.                                                                                                                                       |
| **The picture is not clear.**                         | • The reception might be poor.  
  • Check if the antenna is connected properly.                                                        |
| **The picture is too bright or too dark.**            | • Check the contrast and brightness settings.                                                                                                           |
| **The picture is not sharp.**                         | • The reception might be poor.  
  • Check if the antenna is connected properly.  
  • Check the sharpness and noise reduction settings in the **PICTURE** menu.                           |
| **There is a double/triple picture.**                 | • Check if the antenna is aligned properly.  
  • Waves might be reflected off buildings or hills.                                                     |
| **The picture is pixelated.**                         | • There might be interference from cars, trains, power lines, neon lights, etc.  
  • There might be interference between the antenna and power cables. Position the cables further apart. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Corrective action</th>
</tr>
</thead>
</table>
| There are stripes on the screen or the colours are faded. | • Is there interference from another device?  
• Transmission antennae on radio stations, ham radios and portable phones can also cause interference.  
• Operate the device as far away as possible from the device that might be causing the interference. |
| The control panel on the device does not work | • The child lock might be on.                                                                                                                                                                                  |
| The remote control is not working.           | • Check if the batteries are fully charged and have been inserted the right way round.  
• Ensure the sensor field is not exposed to strong light.                                                                                          |
| TV switches off                               | • Check whether the automatic TV switch-off function is activated under **FEATURE**.                                                                                                                               |
| Disc                                         | • Is the disc inserted with the title (printed) side facing forwards?  
• Check whether the disc is damaged by trying another disc. If the disk 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.                                                  |

**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.
15.1. Full HD Caravan TV pixel faults

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

For active matrix TFTs with a resolution of 1920 x 1080 pixels, which are each made up of three sub-pixels (red, green, blue), there are a total of approx. 6.2 Mio. control elements in use. Occasionally one or more pixels can fail or become incorrectly controlled because of this very high number of transistors and the associated extremely complex manufacturing processes used.

<table>
<thead>
<tr>
<th>Pixel fault class</th>
<th>Defect type 1</th>
<th>Defect type 2</th>
<th>Defect type 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Continuously lit pixel</td>
<td>Continuously black pixel</td>
<td>Defective sub-pixel lit</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>II</td>
<td>2</td>
<td>5</td>
<td>5-n*</td>
</tr>
<tr>
<td>III</td>
<td>5</td>
<td>15</td>
<td>50</td>
</tr>
<tr>
<td>IV</td>
<td>50</td>
<td>150</td>
<td>500</td>
</tr>
</tbody>
</table>

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).
16. Cleaning

**DANGER!**

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

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

You can increase the lifespan of your Full HD Caravan 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 Full HD Caravan TV. Water can cause permanent discoloration.
- 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 Full HD Caravan TV.

17. 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.
18. Disposal

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

Device
The adjacent symbol showing a crossed out wheelie bin means that the device is subject to Directive 2012/19/EU. Old devices may not be disposed of with normal household waste. If you can no longer use your electrical device, dispose of it in accordance with the legal provisions applicable in your area. This involves separating the materials in the device for the purpose of recycling and minimising the environmental impact.
Take old devices to a collection point for electrical scrap or a recycling centre. Before doing so, remove the batteries from the device and take them to a separate collection point for used batteries.
Contact your local waste disposal company or your local authority for more information on this subject.

Batteries
Do not dispose of used batteries with household waste. Batteries must be disposed of correctly. Retailers that sell batteries and local collection points provide containers in which you can dispose of them.
Contact your local waste disposal company or your local authority for more information on this subject.
### 19. Technical specifications

<table>
<thead>
<tr>
<th><strong>Full HD Caravan TV</strong></th>
<th><strong>MEDION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Device name</td>
<td>E12200 (MD 21478)</td>
</tr>
<tr>
<td>Screen size</td>
<td>21.5” (54.6 cm) LCD; 16:9 display</td>
</tr>
<tr>
<td>Power consumption:</td>
<td>Max. 36 W</td>
</tr>
<tr>
<td>Power consumption in stand-by mode</td>
<td>&lt; 0,50 W</td>
</tr>
<tr>
<td>Speaker output</td>
<td>2 x 3 W RMS</td>
</tr>
<tr>
<td>Physical resolution</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>TV system</td>
<td>Pal B/G, D/K, I; Secam L,L´</td>
</tr>
<tr>
<td>Channel positions</td>
<td>199 (ATV), 6000 (DTV)</td>
</tr>
</tbody>
</table>

**External power supply**

<table>
<thead>
<tr>
<th><strong>Model number</strong></th>
<th>SOY-1200300B2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td>AC 100-240V ~ 50/60Hz; 0,9A</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>DC 12V —— 3A; ±±±</td>
</tr>
</tbody>
</table>

**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 (USB 2.0)
- Common Interface (CI+) slot

**Video**

- 1 x HDMI® with HDCP decoding
- 1 x PC (15-pin D-Sub)
- AV In (3.5 mm jack to cinch adaptor)
- YPbPr In (YUV) (3.5 mm jack to cinch adaptor)
<table>
<thead>
<tr>
<th>Audio</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo Audio In for AV, YPbPr (YUV) (3.5 mm jack to cinch adaptor)</td>
<td></td>
</tr>
<tr>
<td>PC Audio In (3.5 mm jack)</td>
<td></td>
</tr>
<tr>
<td>Headphone output (3.5 mm jack)</td>
<td></td>
</tr>
<tr>
<td>Digital Audio Out (SPDIF) (coax.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drives/storage media</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drives</td>
<td>USB, Common Interface, Disc</td>
</tr>
<tr>
<td>Supported formats via USB</td>
<td>Photo: BMP, JPG, JPEG, PNG</td>
</tr>
<tr>
<td></td>
<td>Music: MP3, WAV, FLAC, OGG, AC3</td>
</tr>
<tr>
<td></td>
<td>Film: AVI, MPEG1/2/4, TS, Xvid, QuickTime, 3GP, MKV, MOV</td>
</tr>
<tr>
<td></td>
<td>Text: TXT</td>
</tr>
<tr>
<td>Capacities</td>
<td>USB max. 1 TB</td>
</tr>
<tr>
<td>Supported formats via DVD</td>
<td>Photo: JPG</td>
</tr>
<tr>
<td></td>
<td>Music: MP3</td>
</tr>
<tr>
<td></td>
<td>Film: MPEG 1/2/4, Xvid</td>
</tr>
<tr>
<td>Compatible disc formats</td>
<td>DVD+R/RW, DVD-R/RW, CD-R, CD-RW</td>
</tr>
<tr>
<td>Laser class DVD player</td>
<td>Class 1 laser</td>
</tr>
</tbody>
</table>

These days, there are many non-standard CD recording methods, 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.

<table>
<thead>
<tr>
<th>Remote control</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission type</td>
<td>Infrared</td>
</tr>
<tr>
<td>LED classification</td>
<td>1</td>
</tr>
<tr>
<td>Battery type</td>
<td>2 x 1.5V AAA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ambient temperatures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible ambient temperature</td>
<td>+5°C to +35°C</td>
</tr>
<tr>
<td>Permissible relative humidity</td>
<td>20% – 85%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions without stand (W x H x D)</td>
<td>Approx. 504 x 307 x 89 mm</td>
</tr>
<tr>
<td>Dimensions with stand (W x H x D)</td>
<td>Approx. 504 x 327 x 155 mm</td>
</tr>
<tr>
<td>Weight without stand</td>
<td>Approx. 2.5 kg</td>
</tr>
<tr>
<td>Weight with stand</td>
<td>Approx. 2.6 kg</td>
</tr>
<tr>
<td>Mounting on the wall</td>
<td>Vesa standard, hole spacing 200 x 100 mm³</td>
</tr>
</tbody>
</table>

---

#### 19.1. Product Data Sheet

in accordance with Directive 1062/2010

<table>
<thead>
<tr>
<th>Trademark</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MSN no.</td>
<td>30026326</td>
</tr>
<tr>
<td>Model no.</td>
<td>MD 21478</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A</td>
</tr>
<tr>
<td>Visible screen size (diagonal size, approx.)</td>
<td>21.5” (54.6 cm)</td>
</tr>
<tr>
<td>Average power consumption when switched on (in watts)</td>
<td>22</td>
</tr>
<tr>
<td>Annual power consumption (kWh/year)</td>
<td>32</td>
</tr>
<tr>
<td>Standby power consumption (in watts)</td>
<td>0.45</td>
</tr>
<tr>
<td>Power consumption when switched off (in watts)</td>
<td>---</td>
</tr>
<tr>
<td>Display resolution (in pixels)</td>
<td>1920 x 1080</td>
</tr>
</tbody>
</table>

---

Wall mount not 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 10 mm. Please use the included distance washers for correct mounting.
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.

<table>
<thead>
<tr>
<th>Opening times</th>
<th>Hotline number UK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon – Fri: 08.00 – 20.00</td>
<td>☎️ 0333 3213106</td>
</tr>
<tr>
<td>Sat – Sun: 10.00 – 16.00</td>
<td></td>
</tr>
</tbody>
</table>

**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

Copyright © 2019
Date: 11. January 2019
All rights reserved.
These operating instructions are protected by copyright.
Mechanical, electronic and any other forms of reproduction are prohibited without
the written permission of the manufacturer.

Copyright is owned by the distributing company:

MEDION AG
Am Zehnthof 77
45307 Essen
Germany

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