

METZ

User Manual

for TV sets of the MUB series
and (D)S9A63A

Dear Customer,

thank you very much for choosing a Metz product.

We have created menu navigation in this TV set that provides you with an easy- to-understand user interface.

You can access the help menu during all modes of operation in order to make adjustments to your settings.

But before switching on for the first time, you should at any rate read chapters 1 to 5 of the user's guide.

In the box

- TV set
- Remote control + two AAA batteries
- Power cord
- Operating instructions
- Datasheet
- Energylabel
- Energy data sheet
- Unit base

Explanation

 **Hint, note**

 **Beware of health risks!**

"Metz Consumer Electronics GmbH hereby declares that all the TV sets listed on the attached data sheet comply with the basic requirements and other relevant regulations of Guideline 2014/53/EU".

Web address where you can find the declarations of conformity: www.metzblue.com/Support/Downloads.

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1 Proper use

This TV set is exclusively designed for the reception and playback of picture and sound signals.

The TV set is designed for dry rooms (living rooms and offices).

The room climate should be in a range from +5°C to +35°C with a maximum of 75% air humidity.

The TV set may not be used in rooms with higher air humidity (e.g. bathroom, sauna, etc.).

The TV set must not be used in rooms with a high concentration of dust (e.g. a workshop).


If, as an exception, you operate the TV set outdoors, then please make sure it is protected against moisture (rain, water spray, dew).


2 Installation instructions


- Make sure no bright light or sunshine falls on the screen. This can lead to reflections that impair the brilliance of the picture.
- The most favourable viewing distance is three times the screen diagonal, in sets with

- 43" screen approx 3,3 m	- 49/50" screen approx 3,7 m
- 55" screen approx 4,2 m	- 58" screen approx 4,4 m
- 65" screen approx 5,0 m	- 75" screen approx ca. 5,7 m

 This distance can also be reduced by one half for HDTV.
- Antenna connecting cables and other components between the permanently installed antenna-/broadband plug and the radio receiver (e.g. TV set, video recorder) must comply with the Euro standard EN 60966-2-4.
- To connect the antenna and HDMI, you should use cables with good quality HF shielding to ensure effective contact with the connection ports. Shielding of > 85 dB is required for the antenna connection cable.
- If unauthorised cables and components are used, the operating permit of the radio receiver lapses.
- Use only Metz device stands to set up the TV set on a horizontal, non-slip surface.
- The TV set must not protrude beyond the edge of the footprint.
- Heavy smoking in the vicinity of the TV set can lead to nicotine and soot deposits behind the front panel glass and as a result to an impairment of the picture quality. Such deposits can only be removed by an expert. In extreme cases this can lead to permanent damage of the panel, making replacement of the panel necessary. Cleaning or replacement of the panel is not covered by the guarantee.

 If you want to mount the TV on the wall, we recommend using a Metz wall mount. If you decide a commercial wall mount solution, we ask to be noted that the connection must be executed properly. Due to the device the use of a Metz adapter plate may be required. The wall mount should only be performed by qualified persons. When using a third-party-solution we wish to emphasize that we have to exclude warranty, if the unit should be damaged caused by installing the Wall Mount.

 The TV set should not be mounted on the ceiling.

 To prevent injuries, the TV set must be fastened safely to the floor / wall in accordance with the installation instructions.

- ⚠ Do not place the TV set on high furniture without anchoring both the furniture and the TV set to suitable support.
- ⚠ No other materials (e.g. table cloths etc.) may be placed between the TV set and the furniture.
- ⚠ To prevent injuries, the TV set must be fastened safely to the floor/wall in accordance with the installation instructions.
- ⚠ Educate children about the dangers of climbing furniture to reach the TV and its controls.
- ⚠ In some unfortunate cases, direct sunlight can cause the heat generated on the rear panel of the device to rise to temperatures that can cause damage.

3 Safety instructions

- ⚠ Your set is designed for operation in dry rooms. If, as an exception, you operate the TV set outdoors, then please make sure that it is protected against moisture (rain, water spray, dew).
- ⚠ Do not expose TV set to dripping or splashes (e.g. rain)!
- ⚠ Unplug electrical equipment before cleaning!
- ⚠ Do not hold the remote control directly in front of your eyes and press a key! Infrared light!
- ⚠ The TV set may only be run with a power voltage of 100-240V~ 50/60Hz.
- ⚠ For maintenance and repair work the mains plug or the device plug-and-socket of the power cable of the TV set – in the meaning of the applicable standard – are to be regarded as the means for disconnection from the mains and kept in working order.
- ⚠ Candles and other open flames must be kept away from this product at all times to prevent fire spreading.
- ⚠ The unit may only be opened and repaired by a qualified specialist.
RISK OF FATAL INJURIES !
Please contact your authorised dealer if any repairs are necessary.
- ⚠ Bluetooth® devices work with shortwave radio signals. These can interfere with other electronic or medical devices in certain cases.
- ⚠ Radio waves can interfere with pacemakers and other medical devices. Maintain a distance of at least 20 cm!
- ⚠ Never use cleaning solution on the screen surface! If any cleaning solution penetrates beneath the screen's lower frame, it will result in irreparable damage to the components!
- ⚠ The remote control comes with two LR03/AM4/AAA 1.5V Micro batteries. If a battery is swallowed, it can cause serious and potentially lethal internal injuries within 2 hours. If you suspect that batteries may have been swallowed or got into any part of the body, seek medical attention immediately. Keep new and used batteries away from children.

- No rechargeable batteries may be inserted in the battery compartment of the remote control. Only two LR03/AM4/AAA 1.5 V micro batteries may be used.
- A cold device may only be turned on in a cold room once any condensation on the screen has evaporated.
- TV sets require adequate cooling. The openings at the back may not be covered by curtains, etc. The ventilation slits on the bottom of the set must remain freely accessible, since this is how the device draws in cool air.
- Make sure there is an adequate cooling air flow if you put your device into a built-in cabinet.
- Do not set up/suspend your device directly next to or above a heater; this could impair the device cooling.
- No burning candles or vessels with liquid may be placed on or above the TV set. Hot wax and liquids that get into the interior of the device destroy the electric components of your TV set. In these cases the electrical safety of the device can no longer be guaranteed.
- Thunder storms are a danger for electrical devices. If lightning hits the power cable or antenna, the device can be damaged, even if it is switched off. Before thunder storms disconnect the mains plug and antenna plug from the socket or the TV set.
- This TV set is exclusively designed for the reception and playback of picture and sound signals.
- Do not display still pictures, logos, 4:3 formats with margins, etc for a long period. There is a risk that these still pictures could lead to markings on the screen.
- Soot and dust deposits can accumulate behind the front panel glass of the TV set without a visible source of soot being present. These soot and dust deposits are also known as “fogging” or “magic dust”. There are scattered instances of this phenomenon, but especially during the warm-up period and after renovation work or in new constructions. Various factors are mentioned as the cause, see too the reports on the Internet. In such cases cleaning or replacement of the panel is excluded from the guarantee, since it does not involve a set defect, but rather an external influence.
- The screen surface should only be cleaned with a soft, dry cleaning cloth (e.g. microfibre cloth).
- To remove stubborn dirt or smears, it is possible to clean the screen with a slightly damp, soft cloth. Also see Chap. 20.

4 Connecting, switching on and off

4.1 Power connecting

Connect the TV set to the wall socket with the accompanying power cord.

4.2 Antenna Connection

Connect the TV to the antenna box with an antenna cable.

4.2.1 DVB-C, DVB-T/T2, and Analogue TV Reception Modes

The settings instructions for the DVB-T antenna are in Chapter 7.2.

4.2.2 DVB-S and DVB-S2 Reception Modes


When using a standard satellite system with an antenna feeder line, and when using a single-cable or Unicable satellite system.


The settings instructions for the satellite antenna are in Chapter 7.4.

4.3 Starting Up for the First Time


The red stand-by indicator lights up.

4.3.1 Switching On from Stand-By Mode

The  button selects the last programme position or interface that was active before the device was switched off.

 **When the TV set is switched on for the first time, the Installation Wizard appears. It will guide you through the menu so that you can start using your system.**

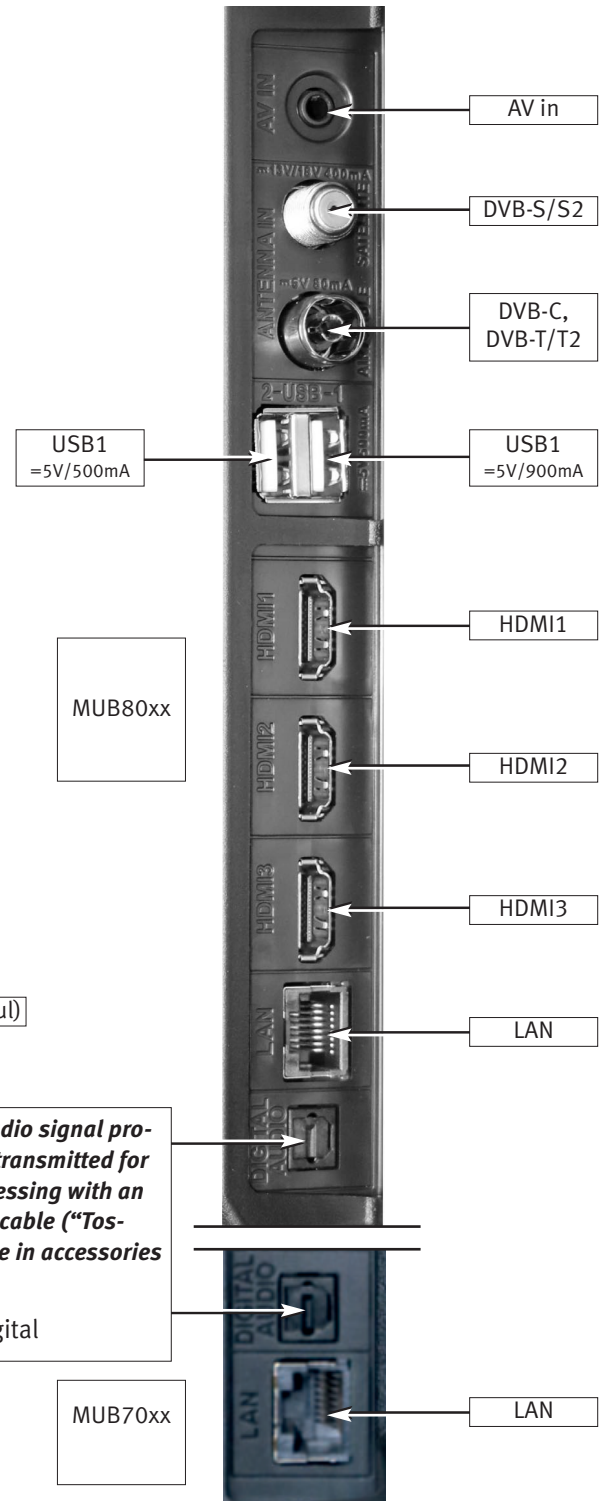
Switching Off with the Remote Control

- Press the  button on the remote control.
The TV will switch to stand-by mode and the LED display will light up red.

AV connection panel for TV series MUB



PCMCIA (CA-Modul)



The digital audio signal provided can be transmitted for external processing with an optical audio cable ("Toslink" available in accessories shop).

Audio out digital

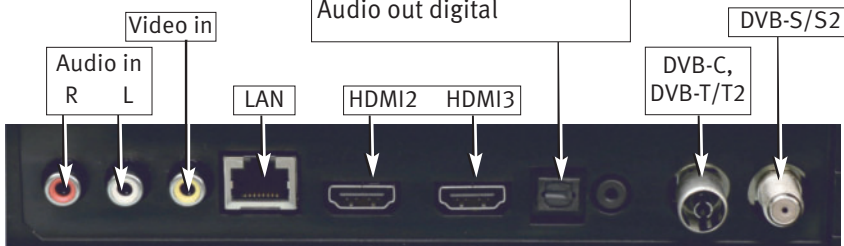
When connecting HDMI devices, high-quality cables with suitably effective shielding must be used.



**AV connection panel for TV series
(D)S9A63A / 65MUB80xx**

The digital audio signal provided can be transmitted for external processing with an optical audio cable ("Tos-link" available in accessories shop).

Audio out digital



USB2
5V/900mA

PCMCIA (CA-Modul)

HDMI1

USB1
5V/500mA



5 The remote control

The remote control conveys commands to the TV set via infrared light. The remote control must always be directed at the TV set. Other infrared controlled devices or systems (e.g. infrared headphones) within its range could be destroyed.

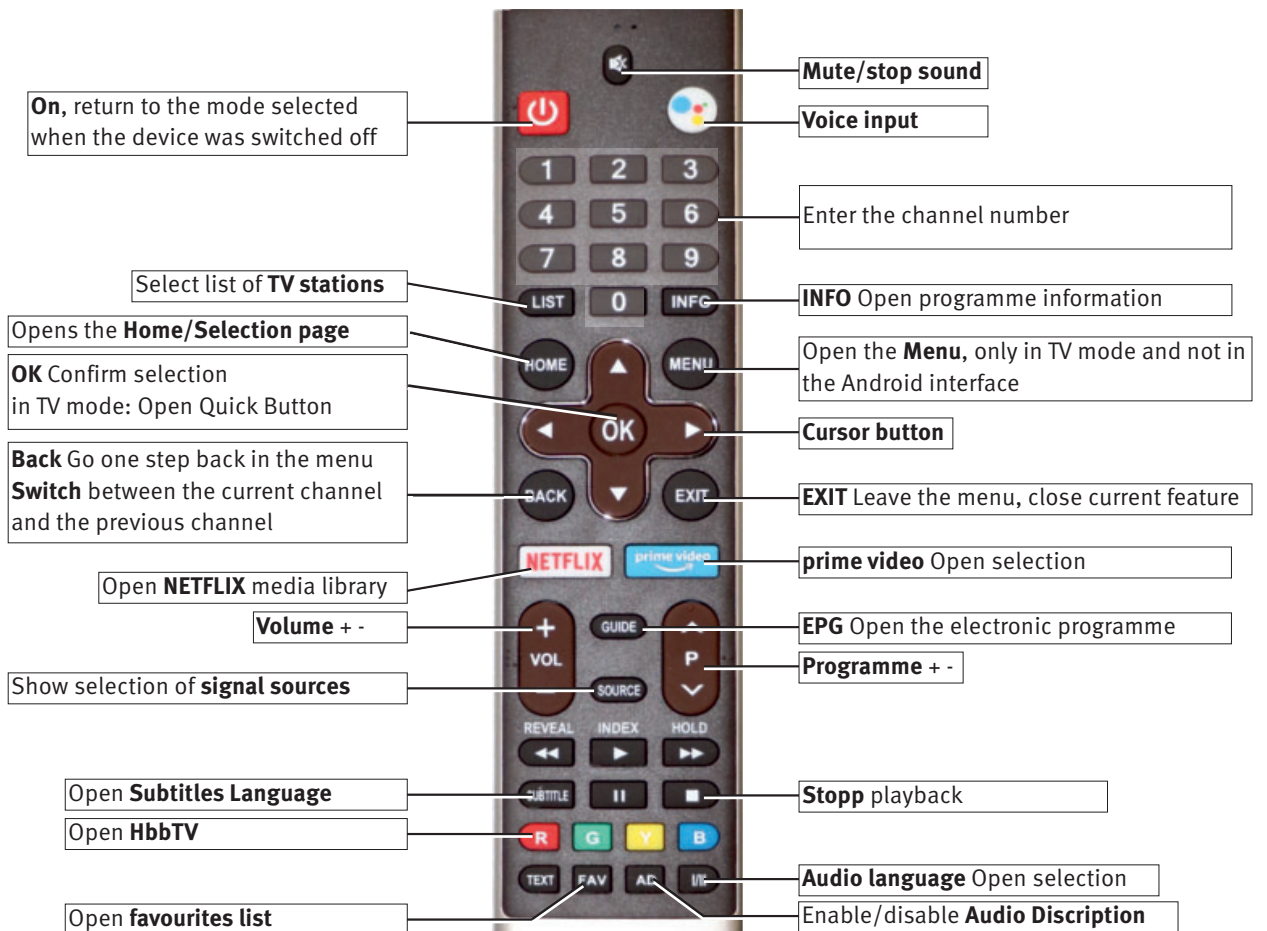
Direct sunlight on the TV set may lead to disruptions, because the TV set is unable to recognise the infrared signals of the remote control. To enable the TV set to be controlled by the remote control, it cannot be switched off with the power switch.

No rechargeable batteries may be inserted in the battery compartment of the remote control!

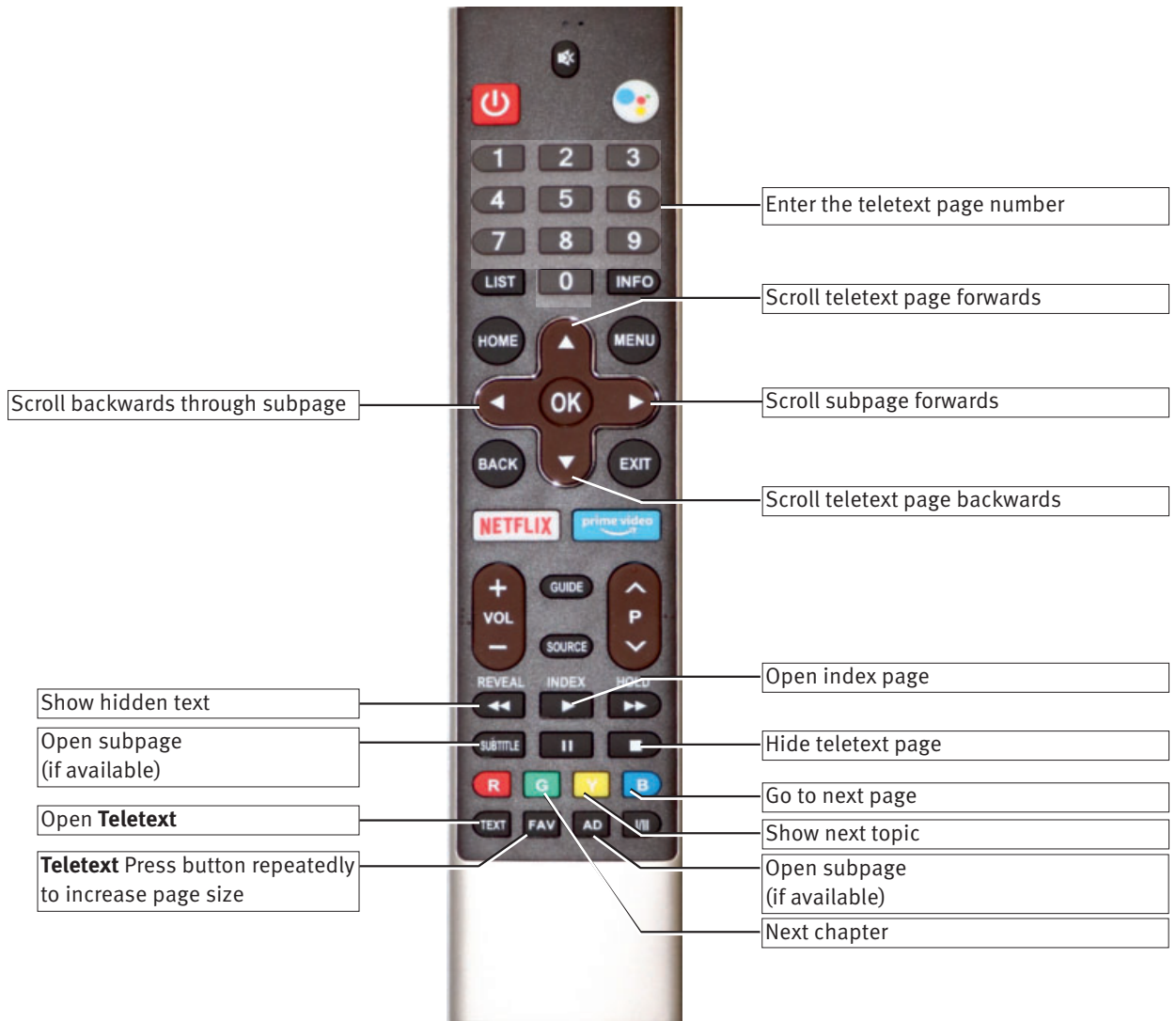
Only two LR03/AM4/AAA 1.5 V micro batteries may be used.

⚠ The batteries that are used must not be exposed to excessive heat such as sunshine, fire or the like!

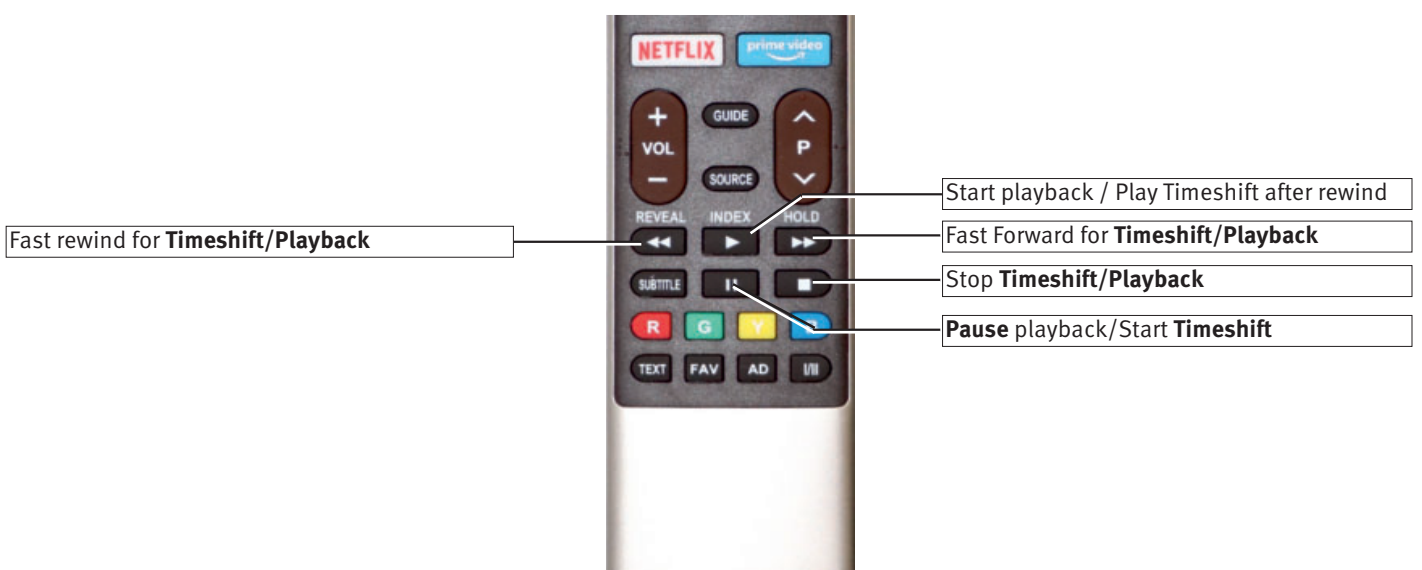
5.1 General Features



5.2 Teletext Features



5.3 USB Features



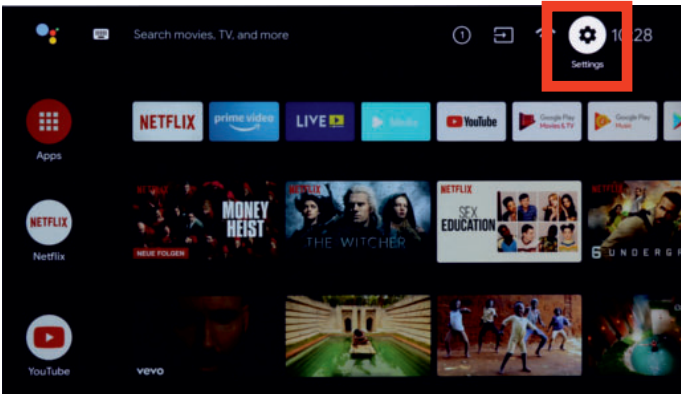
6 Choosing the TV Menu Language

Language Selection in the Menu

In the Settings menu, you can set a language according to the selection offered. All menus and help guides (information) will be shown in the chosen language.

Set Language:

- Press the **(HOME)** button.
The selection will appear.
- Use the cursor keys **▲▶** to select Settings.



- Press the **(OK)** button.
- Use the cursor key **▼** to select Device Preferences and press the **(OK)** button.
- Use the cursor key **▼** to select Language and press the **(OK)** button.
- Use the cursor keys **▲▼** to select the desired language.
- Press the **(OK)** button and confirm your selection.
The language is set and the TV will restart.

7 Channel search

7.1 Setting the reception type

This TV set is equipped for up to four different reception types:

Analog-TV:The broadcasting technology that has existed for decades and which in the meantime can only be received via cable.

DVB-C:The digital broadcasting technology that can be received via a cable connection. Ask your local cable provider.

DVB-T(T2):The digital broadcasting technology that can be received via the up to now customary house antenna or room antenna (depending on reception conditions). Ask your local TV dealer about this, or find out more at „www.ueberallfernsehen.de/dvbt175.html“ or „www.dvb-t2hd.de“.

DVB-S(2):The digital broadcasting technology that can be received via a satellite. Ask your local TV dealer about this, or find out more at „www.lyngsat.com/europe.html“

Set the reception type that you have set up.

Set the Reception Mode, e.g. DVB-C:

- Press the **(SOURCE)** button.
The port selection will be displayed.
- Use the cursor keys **▲▼** to select the desired reception mode and press the **(OK)** button .

7.2 DVB-T (T2), Antenna Supply

Set the DVB-T/T2 (Terrestrial) Reception Mode, see Chapter 7.1.

If an active antenna is used for the DVB-T/T2 reception, an antenna supply can be set.

On: Antenna supply is constantly switched on.

Off: Setting for passive antenna or joint antenna systems.

Set antenna supply:

- Press the **(MENU)** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **(OK)** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **(OK)** button and open the menu item.
- Use the cursor keys **▲▼** to select the menu item 5V Antenna Power and press the button **(OK)** .
- Use the cursor keys **▲▼** to switch the function on or off and press the **(OK)** button.
The setting then becomes active.

7.2.1 DVB-T(T2) Channel Search, Automatic

Set the DVB-T/T2 (Terrestrial) Reception Mode, See Chapter 7.1.

The automatic channel search checks the reception area for TV and radio channels. The channels found are stored in a TV and a radio channel list.

If you are not satisfied with the order of the channels found, the channels can still be moved or deleted. See Chapters 7.6, 7.7 and 7.8.

If your local provider offers channel sorting, the LCN (logical channel numbering) feature must be set to On before searching. See Chapter 7.2.3.

Automatic search:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor key **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button. The menu line "Crypted" is selected.
- Use the cursor keys **◀▶** to select All, Free or Encrypted. The setting then becomes active.
- Use the cursor keys **▲▼** to select Tuning type.
- Use the cursor keys **◀▶** to select the Auto feature and press the **OK** button. The setting then becomes active.
- Select the menu item SCAN with the cursor keys **▲▼** and press the **OK** button. The channel search will begin.

Once your station search is complete, the programmes found are shown in a list of TV channels

7.2.2 DVB-T(T2) Manual Station Search

Select the DVB-T/T2 (Terrestrial) Reception Mode, see Chapter 7.1.

To search manually for stations, you need to know the channel of the programme you want to change settings for.

Manual Search:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button. The menu line "Crypted" is selected.
- Use the cursor keys **▲▼** to select Tuning type.
- Use the cursor keys **◀▶** to select Manual and press the **OK** button. The setting then becomes active.
- Use the cursor key **▼** to select RF Channel.
- Use the number keys or the cursor keys **◀▶** to enter the RF Channel.
- Select SCAN with the cursor key **▼** and press the **OK** button. The channel search will begin.

Once your station search is complete, the programmes found are shown in a list of TV channels.

7.2.3 LCN Switch (Logical Channel Numbering)

With the LCN feature, your local supplier makes it possible to sort via location or country (ask your local supplier).

Set LCN Switch:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select the LCN Switch menu item and press the **OK** button.
- Select On with the cursor keys **▲▼** and press the **OK** button. The setting then becomes active.

The next time a channel search is performed, the provider's logical sorting will be used.

7.3 DVB-C Channel Search, Automatic

Set the DVB-C (Cable) Reception Mode, see Chapter 7.1.

The reception range is searched for TV channels and radio channels in the automatic channel search. The programmes found are stored in a TV channel and radio station list. You can move or delete stations that are found if you are not satisfied with the order they are in (Chapter 11, Edit Favourites List).

Automatic Search:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button. The menu line "Crypted" is selected.
- Use the cursor keys **◀▶** to select All, Free or Encrypted. The setting then becomes active.
- Use the cursor keys **▲▼** to select Tuning type.
- Use the cursor keys **◀▶** to select the Full feature and press the **OK** button. The setting then becomes active.
- Select SCAN with the cursor key **▼** and press the **OK** button. The channel search will begin.

Once your station search is complete, the programmes found are shown in a list of TV channels.

7.3.1 Manual DVB-C Channel Search

To search manually for stations, you need to know the channel or the frequency of the channel you want to change settings for.

Set the programme position you want to reset via the station search.

Manual Search:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button. The menu line "Crypted" is selected.
- Use the cursor keys **◀▶** to select All, Free or Encrypted. The setting then becomes active.
- Use the cursor keys **▼** to select the Tuning type.
- Use the cursor keys **◀▶** to select Manual.
- Use the cursor key **▼** to select the menu item Frequency and press the **OK** button.
- Press the **OK** button and use the cursor keys **◀▶ ▲▼** to select the delete symbol **⊗** on the on-screen keyboard and delete the displayed frequency by pressing the **OK** button several times.
- Enter the new frequency using the number buttons on the remote control and confirm with the tick **✓** on the on-screen keyboard.
- Select Modulation with the cursor button **▼**.
- Use the cursor keys **◀▶** to select the desired setting from Auto, 16 QAM, 32 QAM, 64 QAM, 128 QAM or 256 QAM.
- Select Symbol with the cursor button **▼**.
- Use the cursor keys **◀▶** to select Enter and press the **OK** button.
- Press the **OK** button and use the cursor keys **◀▶ ▲▼** to select the delete symbol **⊗** on the on-screen keyboard and delete the displayed value by pressing the **OK** button several times.
- Enter the new frequency using the number buttons on the remote control and confirm with the tick **✓** on the on-screen keyboard.
- Select Scan with the cursor key **▼** and press the **OK** button.

Once your station search is complete, the programmes found are shown in a list of TV channels.

7.4 Setting Up the SAT System

Set the DVB-S/S2 (Satellite) Reception Mode, see Chapter 7.1.

Before the satellite channel search, the TV set must be configured for the SAT antenna system.

7.4.1 Setting up the Sat System

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button.

The settings should be carried out in the following order:

LNB power,

LNB type,

DiSEqC system,

etc.

7.4.1.1 LNB Power and Type


- Use the cursor keys **◀▶ ▲▼** to select the menu line LNB Power and press the **OK** button.
- Use the cursor keys **▲▼** to select the desired setting.

The LNB supply voltages are permanently set for selection of the polarisation (horizontal H = 18V, vertical V = 13V).

Normally, you do not need to change anything.

If the correct voltage supply of the LNB is no longer guaranteed as a result of a long antenna cable, the supply voltage can be increased by 1V with the power compensation.

If changes are necessary, please take the following steps.

 **If the TV set is connected to a single-cable SAT system, the LNB power voltage must always be set to Off.**

LNB-Type

The LNB type is set to Universal by default.

Generally, no changes are required here.

7.4.1.2 DiSEqC System

With DiSEqC, digital management of the satellite system via the existing antenna cable is possible and is a prerequisite for the reception of more than two satellites (e.g. Astra, Eutelsat, Hotbird).

Management of the satellite system without DiSEqC is no longer possible with three satellites or more (e.g. ASTRA 19.2°, Eutelsat 16°, Hotbird 13°).

If you receive a signal from two or more satellites, an assignment of satellite A (e.g. Astra) to LNB1, satellite B (e.g. Hotbird) to LNB2, etc. must be made corresponding to your satellite system. Satellite A, typically Astra, must always come first.

Switching DiSEqC On and Off:

- Select DiSEqC 1.0 with the cursor key in the shortcut menu and press the **OK** button.
- If DiSEqC components are integrated in your SAT antenna system, use the cursor key to enter LNB 1 . . . 4 for the DiSEqC Function and press the **OK** button.

7.4.1.3 Unicable

The antenna system with a channel router feeds one cable and is designed to receive the full programme selection. For this purpose, each receiver is assigned one specific frequency in the SAT frequency range (950-2150 MHz).

7.4.1.4 Selecting a Satellite

Up to 4 satellites can be set in the Satellite menu if DiSEqC is switched on.

Setting Additional Satellites:

- Select the desired satellite in the context menu with the cursor and press the **OK** button.
If your satellite system is equipped to receive signals from two satellites, then you also have to configure the second satellite.

7.5 Satellite Station Search

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select Channels and press the **OK** button.
- Use the cursor keys **▲▼** to select the desired satellite and press the **OK** button.
- Press the **B** button. The Satellite Channel Tuning submenu will appear.
- Use the cursor keys **◀▶** to select Blind Scan.
Only by selecting "Blinder Scan" will all DVB-S/S2 stations be found.
- Use the cursor keys **▲▼** to select the menu item Program Type.
- Use the cursor keys **◀▶** to select All, Free or Encrypted.
- Use the cursor keys **▲▼** to select Service Type.
- Use the cursor keys **◀▶** to confirm the desired selection.
- Press **OK** button.
Confirm the info displayed with Yes by pressing the **OK** button.

7.6 Sorting the Channels

When the channel search is complete, the channels found are presented in a channel list. You can sort this channel list according to your own requirements.

Move or swap channels:

- In LiveTV mode, press the **LIST** button.
The station table will appear on the screen.
- Use the cursor keys **◀▶ ▲▼** to select the channel position you want to move or swap.
- Press and hold the **OK** button. The feature selection list will appear on the screen.
- Use the cursor keys **▲▼** to select Move or Swap and press the **OK** button.
- Enter the new channel position with the number keys or select the new channel location with the **◀▶ ▲▼** cursor keys.
- Press the **OK** button. The selected channel is stored at the newly selected location.

- Press the **OK** button and release the channel at the new location.
- Press the **EXIT** button and exit the menu.

7.7 Skip Channels

In the channel list, you can mark channels to be skipped with the **▲P▼** button when you are flipping forward through the channels.

Skipping a channel:

- In normal television mode, press the **LIST** button.
The station table will appear on the screen.
- Use the cursor keys **◀▶ ▲▼** to select the channel you wish to be skipped.
- Press and hold the **OK** button. The feature selection list will appear on the screen.
- Use the cursor keys **▲▼** to select Skip.
- Press the **OK** button. The channel will be marked with an arrow.
If the button **▲▼** is pressed several times, the marked channel is skipped.
- Press the **EXIT** button and exit the menu.

7.8 Creating a Favourites List

You can select channels in the channel list and copy them to a Favourites list.

Select and export a channel:

- In normal television mode, press the **LIST** button.
The station table will appear on the screen.
- Use the cursor keys **◀▶ ▲▼** to select the channel position you want to export to the Favourites list.
- Press and hold the **OK** button. The feature selection list will appear on the screen.
- Use the cursor keys **▲▼** to select the Favourites function.
- Press the **OK** button. The channel will be selected.
- Press the **OK** button.
The channel will be marked with a **♥** and exported to the Favourite list.
The stations will be transferred to the Favourites list in the order in which they are marked and exported.
You **cannot** sort the Favourites list later.
- Press the **EXIT** button and exit the menu.

7.9 Channel Selection via the Favourites List

- Press the **FAV** button.
The Favourites list will be displayed.
- Use the cursor keys **▲▼** to select the desired channel and press the **OK** button.
- Press the **EXIT** button and exit the menu.

7.10 Deleting a Channel from the Favourites List

- Press the **FAV** button.
The Favourites list will be displayed
- Use the cursor keys **▲▼** to select the desired channel and press the **OK** button more than 2 Seconds.
- Select Yes with the cursor keys **◀▶** and press the **OK** button.

8 Picture Settings

8.1 Picture Mode

The picture settings are stored in the Picture Mode menu.

Here the picture modes Vivid, Standard, Sport, User and Game are pre-programmed.

In the following example, the picture mode is set. All other picture settings can be adjusted in the same way.

Set the picture mode:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **◀▶** to change the picture mode.
The following settings are possible: Vivid, Standard, Sport, User, Game.
- Press the **EXIT** button and exit the menu.

8.1.1 Configuring Picture Profiles

The User picture mode can be set and saved with your own picture settings for brightness, contrast, saturation, sharpness, gamma and color temperature.

Configuring preset values:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select the desired setting.
- Use the cursor keys **◀▶** to change the setting.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

8.1.2 Changing the Gamma Image Setting

Gamma affects the image's grey gradation but not the white or the black. A higher gamma value makes the medium shades of grey darker and makes images easier to see in a darker viewing environment, while a lower gamma value is more suited to lighter environments.

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Gamma with the cursor keys **▲▼** and press the **OK** button.
- Use the cursor keys **▲▼** to select the desired setting and press the **OK** button.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

8.1.3 Changing Color Temperature Image Settings

The colour temperature can be set in three levels: Warm, Standard and Cool.

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected
- Press the **OK** button and open the menu item.
- Select Color Temperature with the cursor keys **▲▼** and press the **OK** button.
- Use the cursor keys **▲▼** to select the desired setting and press the **OK** button.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

8.2 Advanced Video Settings

8.2.1 DNR (Dynamic Noise Reduction)

Image noise is disturbance in the video signal. It appears as granular patches. This can be caused by low lighting, nearby interference, heat or device algorithms.

DNR is a technique for removing picture noise from a video signal by applying a digital comb filter. It makes images clearer and reduces the video file size.

A 2D filter reduces the noise that can occur in low-light conditions. This type of filter is sometimes confused by movement, resulting in blurred patches.

A 3D filter goes one step further and effectively reduces noise in static and moving images.

Switching on DNR:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Advanced Video with the cursor keys **▲▼** and press the **OK** button.
- Press the **OK** button and open the DNR menu.
- Use the cursor keys **▲▼** to select the desired setting and press the **OK** button.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

8.2.2 Adaptive Luma Settings

The luminosity of the image is automatically adjusted depending on the video signal.

Adaptive Luma Settings:

- Press the **(MENU)** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **(OK)** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **(OK)** button and open the menu item.
- Select Advanced Video with the cursor keys **▲▼** and press the **(OK)** button.
- Select Adaptive Luma Control with the cursor keys **▲▼** and press the **(OK)** button.
- Use the cursor keys **▲▼** to select the desired setting and press the **(OK)** button. The setting then becomes active.
- Press the **(EXIT)** button and exit the menu.

8.2.3 MPEG Noise Reduction

System-related digital picture errors can occur in TV broadcasts that were produced digitally. These picture defects can appear as a rectangular pattern (formation of tiny blocks) in moving areas. These picture faults can be reduced using MPEG noise reduction. The rectangular pattern (formation of tiny blocks) can be corrected in the MPEG Noise Reduction menu.

Setting MPEG NR:

- Press the **(MENU)** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **(OK)** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **(OK)** button and open the menu item.
- Select Advanced Video with the cursor keys **▲▼** and press the **(OK)** button.
- Select MPEG NR with the cursor keys **▲▼** and press the **(OK)** button.
- Use the cursor keys **▲▼** to select the desired setting and press the **(OK)** button. The setting then becomes active.
- Press the **(EXIT)** button and exit the menu.

8.2.4 DI-Film Mode

Suppression of image shake for stable and smooth playback of moving images.

Setting DI-Filmmode:

- Press the **(MENU)** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **(OK)** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **(OK)** button and open the menu item.
- Select Advanced Video with the cursor keys **▲▼** and press the **(OK)** button.
- Select DI Film Modeo with the cursor keys **▲▼** and press the **(OK)** button.
- Use the cursor keys **▲▼** to select the desired setting and press the **(OK)** button. The setting then becomes active.
- Press the **(EXIT)** button and exit the menu.

8.2.5 Motion Compensation (MEMC)

„ Motion Compensation “ MEMC (Motion Estimation/Motion Compensation) provides an improvement in image display for cinema films and similar source material. Motion becomes smoother and a more three-dimensional picture appearance results.

Setting MEMC:

- Press the **(MENU)** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **(OK)** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **(OK)** button and open the menu item.
- Select Advanced Video with the cursor keys **▲▼** and press the **(OK)** button.
- Select MEMC with the cursor keys **▲▼** and press the **(OK)** button. The currently valid setting is displayed.
- Press the **(OK)** button and open the menu item.
- Use the cursor keys **▲▼** to select the desired setting and press the **(OK)** button. The setting then becomes active.
- Press the **(EXIT)** button and exit the menu.

9 Audio/Sound Settings

9.1 Sound Mode

The sound settings are stored in the Sound Mode menu.

The sound modes Standard, Sport, Movie and Music are pre-programmed.

In the following example the sound mode is set. All other sound settings can be adjusted in the same way.


Choosing the Sound Mode:

- Press the **MENU** button during LIVE TV operation.
 - Use the cursor key **▼** to select Sound Mode.
- Use the cursor buttons **◀▶** to select the Sound Mode menu.
The following settings are possible: Standard, Music, Sport and Movie.
- Press the **EXIT** button and exit the menu.

9.1.1 Configuring Sound Mode

- Press the **MENU** button during LIVE TV operation.
 - Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select Sound Mode and press the **OK** button.
- Use the cursor keys **▲▼** to change the setting.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

Adjust Balance, Bass, Treble:

 **Balance, bass and treble can only be adjusted if the menu item DTS TruSurround is switched off.**

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select the desired sound setting.
- Use the cursor keys **◀▶** to change the setting.
The setting then becomes active.
- Press the **EXIT** button and exit the menu.

9.2 DTS TruSurround

In addition to Dolby Digital, DTS is another digital surround sound system. DTS TruSurround is a sound optimiser that creates a virtual stereophonic sound without using additional surround sound speakers. DTS TruSurround denotes a multi-channel sound system and is a proprietary audio technology.

Configuring DTS TruSurround:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select DTS TruSurround.
- Press the **OK** button and switch the feature on or off.

9.3 Automatic Volume

The menu item Automatic Volume ensures an equal volume level across all programme positions.

Setting Automatic Volume:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select Auto Volume.
- Press the **OK** button and switch the feature on or off.

9.4 SPDIF Type

SPDIF is a digital audio format used to transport digital stereo audio signals. SPDIF is used on PC sound cards, CD players, DVD players, car audio systems, and other systems that transmit or receive digital stereo audio. With this technology, you can send your audio signal to various other devices, such as a suitable amplifier, by means of fibre optic cables.

SPDIF is also marked as S/PDIF, S/P-DIF.

Setting SPDIF type:

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select SPDIF Type and press the **OK** button.
- Use the cursor keys **▲▼** to make your choice and press the **OK** button.
The new setting will then be saved.

9.4.1 SPDIF Delay

SPDIF Delay provides the lip sync based on the external receiver.

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select SPDIF Delay.
- Use the cursor keys **◀▶** to change the setting.
The setting then becomes active.

10 TV Settings

10.1 Fast Startup

The TV set starts faster from standby mode when this feature is activated.

However, this increases standby power consumption from <0.5 W to <2 W.

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select Fast Boot.
- Press the **OK** button and switch the feature on or off. The setting then becomes active.
- Press the **EXIT** button and exit the menu.

10.2 Auto-Standby

The TV set automatically switches to standby mode if no signal is present for a period of time (approx. 15 minutes). When the last minute starts, a reminder will appear on the screen.

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Auto Standby with the cursor button **▼**.
- Press the **OK** button and switch the feature on or off. The setting then becomes active.
- Press the **EXIT** button and exit the menu.

10.3 Screen Mode

The Screen Mode of the TV can be selected.

Auto = recommended setting.

16:9 = Image in normal 16:9 format.

Zoom = The TV picture is enlarged.

P2P = Picture format for security camera.

Screenmode settings:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor key **▼** to select Screen Mode and press the **OK** button.
- Select the desired screen mode with the cursor keys **▲▼** and press the **OK** button. The new setting will then be saved.
- Press the **EXIT** button and exit the menu.

10.4 Subtitles

People with hearing impairments can make use of the subtitles feature. The Subtitle feature must usually be activated in the menu beforehand.

The provision of subtitles is subject to the respective broadcasters.

Activate subtitles:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Subtitle Language with the cursor key **▼** and press the **OK** button.
- Press the **OK** button and open the Subtitle Language menu.
- Use the cursor key **▼** to select On and press the **OK** button. The new setting will then be saved. Then select the subtitle language.

10.4.1 Selecting the Subtitle Language

You can select the language to show subtitles from a list.

Set Subtitle Language:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Subtitle Language with the cursor key **▼** and press the **OK** button.
- Use the cursor keys **▲▼** to select the desired subtitle language and press the **OK** button. The set language is only displayed if it is offered by the station.
- Press the **EXIT** button and exit the menu.

10.4.2 Setting Subtitles for the Hearing Impaired

Configuring Subtitles:

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Subtitle Language with the cursor key **▼** and press the **OK** button.
- Select Subtitle Type with the cursor key **▲** and press the **OK** button.
- Use the cursor key **▼** to select Hearing Impaired and press the **OK** button. The subtitles are displayed automatically if they are offered by the station.
- Press the **EXIT** button and exit the menu.

10.5 Sleep Timer

The Sleep Timer switches the TV set off after a period of time chosen by you.

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Select Sleep Timer with the cursor button **▼**.
- Use the cursor keys **◀▶** to set the desired time to 15, 30, 60, 90, or 120 minutes. The setting then becomes active.

10.6 Freeze frame on

- Press the **OK** button. The “Quick Button” menu appears on the screen with the individual functions.
- Use the cursor keys **▲▼** to select “Freeze”.
- Press the **OK** button, the current image is frozen

10.6.1 Freeze frame off

- Press the **OK** button. The “Quick Button” menu appears on the screen with the individual functions.
- Use the cursor keys **▲▼** to select “Freeze”.
- Press the **OK** button, the frozen image is released.

11 TV Guide

In the TV Guide you can see current and future DTV mode from the saved channel list.

DVB-SI data is transmitted in the TV signal (DVB-S, DVB-C, or DVB-T).


DVB-SI (Digital Video Broadcasting-Service Information) is a service provided by various broadcasters. Each channel digitally broadcasts programme data for each station it broadcasts.

- Press the **GUIDE** button. The overview will appear
- Use the cursor keys **▲▼** to select channels.
- Press the **G** button and open the Date Function.
- The date can be changed with the cursor keys **◀▶** The preview period is approx. 8 days.
- With the cursor key **▶** you can look into the future for the selected channel.
- Press the **OK** button. The programme information for the selected broadcast will appear. Press the **BACK** button to hide the info.

11.1 Broadcast Reminders

- Press the **GUIDE** button. The overview will appear
- Use the cursor keys **▲▼** to select channels.
- Use the cursor keys **◀▶ ▲▼** to select programs.
- Press the **R** button and open Edit Mode.
- Select Remind with the cursor key **▼** and press the **OK** button. When the broadcast of the selected programme starts, a fade-in will occur and the TV will switch to the programme.

11.2 Recording Broadcasts

 **A DTV broadcast can only be recorded if an external hard disk is connected to a USB port. The hard disk must be formatted in FAT32 format.**

- Press the **GUIDE** button. The overview will appear
- Use the cursor keys **▲▼** to select channels.
- Use the cursor keys **◀▶ ▲▼** to select programs.
- Press the **R** button and open Edit mode.
- Select Record with the cursor key **▼** and press the **OK** button. An activation key has to be requested on the www.metzblue.com website with the request key given on the screen. A recording overlay will appear at the bottom of the screen.
- Select the right column with the cursor button **▶**.
- The cursor keys **▲▼** can be used to programme either one-off recording or repeat (series) recording.

12 Android on the Smart TV

Android is the central operating system on the TV set, just like on smartphones. Android provides online services, apps and all other media content.

Via the TV set, users have access to Google stores for movies, music and games as well as to the NETFLIX media library and to YouTube and various web browsers.

12.1 Apps

Just like on your smartphone or tablet, the apps installed on your TV set offer various features for a comprehensive television experience.

- Press the **HOME** button.
A selection of apps will appear.
- With the cursor keys **◀▶ ▲▼**, the various apps can be selected.
- Press the **OK** button to open the desired app.

12.1.1 Download and install offered apps

- Press the **HOME** button.
A selection of available apps will appear.
- Use the cursor keys **◀▶** to select the "Google Play" tile and press the **OK** button.
- Press the cursor key **▼** several times and select the selection line of the apps.
- Use the cursor keys **◀▶** to make a selection tile, e.g. Select "Media Apps", "Music Apps," News Apps "or" Tools & Utilities".
- Press the **OK** button and open the selection.
- Use the cursor keys **◀▶ ▲▼** to select the desired app and press the **OK** button.
- To install the app, select the "Install" tile and press the **OK** button.

12.1.2 Download and install apps through Google Play Store

- Press the **HOME** button.
A selection of available apps will appear.
- Use the cursor keys **◀▶** to select the "Google Store" tile and press the **OK** button.
- Use the cursor keys **◀▶** to select the desired app tile and press the **OK** button.
- To install the app, select the "Install" tile and press the **OK** button.

12.1.3 Moving or changing app tiles

- Press the **HOME** button.
A selection of available apps will appear.
- Use the cursor keys **◀▶** to select the desired app tile.
- Press the **OK** button until the menu for further processing (Open, Change, Remove from favourites) appears.
- Use the cursor keys **▲▼** to select the desired function, e.g. "Change", and press the **OK** button.
- Use the cursor keys **◀▶** to select the new position for the app tile and press the **OK** button.

12.1.4 Removing app tiles

- Press the **HOME** button.
A selection of available apps will appear.
- Use the cursor keys **◀▶** die gewünschte App-Kachel anwählen.
- Press the **OK** button until the menu for further processing (Open, Change, Remove from favourites) appears.
- Use the cursor keys **▲▼** to select the desired function, e.g. "Remove from favourites" and press the **OK** button.
The app tile will be removed from the list.


12.2 Setting the Remote Control for Voice Input

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Use the cursor key **▼** to select Add Accessory and press the **OK** button.
- Press **HOME** and the cursor key **◀** simultaneously until the green light flashes.
- TV BLE Remote will be displayed on the screen.
- Press the **OK** button. The remote control will now be in Bluetooth pairing mode. The accessory search will start.


12.3 YouTube

- Press the **HOME** button.
A selection of apps will appear.
- Use the cursor keys **◀▶ ▲▼** to select the YouTube tile and press the **OK** button.
The contents will be displayed according to the recommendations of the editorial staff.
- Select the desired content with the cursor keys **◀▶ ▲▼** and press the **OK** button. The selection will be opened.

12.3.1 YouTube Search, Handwriting Recognition

- Use the cursor keys **◀▶ ▲▼** to select the  and press the **OK** button. The search feature will open.
- Press the cursor key **▶** 3 times and select the keypad for handwriting recognition.
- Use the cursor keys **◀▶ ▲▼** to select the characters one after the other and then press the **OK** button.
- Use the cursor key **▲** to choose a selection line.
- Use the cursor keys **◀▶** to make your selection and press the **OK** button.

12.3.2 Search on YouTube, Speech Input

- Press and hold the Speech Input button  and speak the search term into the microphone.

12.4 Google Account

To be able to use all features of the TV, you should log in with your Google account.

By signing in, you can play games, videos and music on your smartphone, tablet or TV.

Use your existing Google Account to sign in to Google on your TV.

A Google Account consists of an email address and a password.

12.4.1 Google Play

- Use the cursor keys **◀▶ ▲▼** to select a Google tile.
- Press the **OK** button to open the desired app.
You will need to sign in to your TV using your Google Account.
- Choose a setting with the cursor keys **◀▶ ▲▼** and then select the desired tile and press the **OK** button.

12.5 Hide Apps and Return to TV Programme

- Press the **EXIT** button to close the app.
- Press the **SOURCE** button.
The selection of possible signal types will appear at the bottom right of the screen. The signal type installed on the TV set will already be selected.
- Press the **OK** button and switch to the TV programme.
The last TV programme watched will be displayed.

13 Connecting External Devices via Bluetooth

External devices, such as Bluetooth headphones, can be connected to the TV set via Bluetooth.

- Press the **MENU** button during LIVE TV operation.
The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button.
The Settings menu will open. The menu line for TV Settings will be selected.
- Select Add accessory with the cursor key **▼** and press the **OK** button.
- Switch the external Bluetooth device to pairing mode. If the external device has been found, a pop-up will appear on the right in the menu.
- Press the **OK** button and activate Bluetooth pairing mode.
When the pairing is complete, a message will appear.

14 DVB-Radio

During the channel search (see Chapter 7), the DVB radio stations are automatically searched for and stored in a station list at the radio control level.

Switching to DVB Radio Mode

- In normal television mode, press the **LIST** button.
The station table will appear on the screen.
- Use the cursor keys **◀▶ ▲▼** button to select the Radio TV header.
- Select the desired station with the cursor keys **◀▶ ▲▼** and press the **OK** button.

15 Teletext

Teletext is a free, additional information service provided by broadcasters. There are various ways of browsing in this electronic newspaper.

Opening Teletext:

- Press the **TEXT** button.
Page 100 (Table of Contents) will appear on the screen.

15.1 Basic Teletext Functions

Color buttons are used to change pages randomly, and please operate as shown at the bottom of the screen.

15.1.1 Selecting a Specific Teletext Page

If you know the teletext page you want to visit, you can enter the page number using the number keys.

The selected page number will appear at the top left of the screen. The search will be started. If the page is found, it will be displayed on the screen.

During the search, if you want to switch to this station and watch the programme that is currently on the air, press the **■** button (CANCEL). The teletext will be hidden but not closed. On the top left of the screen, the symbol flashes to indicate that the search is in progress.

When the page is found, the character is replaced by the page number.

To display the teletext page, press the **■** (CANCEL) button again.

Selecting a Multiple Teletext Page

Many teletext pages have multiple pages. This multiple page identifier is usually found below the time, appearing in this format: 1/9. The individual subpages are switched to automatically.

To access a specific subpage, press the cursor key **◀▶**.

15.2 Answer Sharing or Puzzle Solving

Hidden answers to quiz or puzzle questions are displayed when you press the **◀◀** (REVEAL) button.

Press the button **◀◀** (REVEAL) again to hide the answers.

15.3 Exit Teletext

Press the **EXIT** button.

The TV programme will be displayed again.

16 Parental Controls

Using the parental control function, individual channels can be blocked or assigned an age rating.

16.1 Block channel

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Please enter password with the cursor button **▼**.
- Press the **OK** button and enter the factory code "0000" with the number keys. The Parental Controls menu will open. The menu for Channel Block will be selected.
- Press the **OK** button to display the list of channels.
- Use the cursor keys **▲▼** to select the channel you want to block and press the **OK** drücken.button. The switch symbol is moved to the right and the channel will now be blocked. It is also possible to select and block several channels.
- Press the **EXIT** button and exit the menu.

16.1.1 Temporarily unblocking a blocked channel

- When switching to a blocked channel, the password input screen will appear. Enter the PIN code to unblock this channel. The channel will be available until you select a different channel again.

16.1.2 Permanently unblocking a channel

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Please enter password with the cursor button **▼**.
- Press the **OK** button and enter the previously entered code using the number keys. The menu for Channel Block will be selected.
- Press the **OK** button twice and display the channel table.
- Use the cursor keys **▲▼** to select the channel you want to unblock and press the **OK** button. The switch symbol will be moved from the right to the left and the channel will now be unblocked.
- Press the **EXIT** button and exit the menu.

16.2 Blocking a programme (age restriction)

It is generally possible to set an age restriction, but it will only work if the programme's data stream features a parental control mode.

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Please enter password with the cursor button **▼**.
- Press the **OK** button and enter the factory code "0000" or the personal code using the number keys. The Parental Controls menu will open. The menu item "Block Channel" will be selected.
- Use the cursor key **▼** to select the menu item "Block programme" and press the **OK** button.
- Press the **OK** button to activate the "Rating" function. The switch symbol is moved to the right and the function is activated.
- Use the cursor key **▼** to select the menu item "Age restriction" and press the **OK** button.
- Use the cursor keys **▲▼** to select an age and press the **OK** button.
- Taste **EXIT** drücken und das Menü verlassen.

16.3 Deleting all parental control settings

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Select Please enter password with the cursor button **▼**.
- Press the **OK** button and enter the factory code "0000" with the number keys.
- Use the cursor key **▼** to select the menu item "Delete everything" and press the **OK** button.
- Press the **OK** button to reset all settings.

17 HbbTV

 *HbbTV is not available in all countries.*

 *For legal reasons, recording to an external hard disk is not permitted when the HbbTV feature is switched on.*

Broadcasters offering HbbTV can be identified by the Red Button logo at the bottom right of the screen

Setting HbbTV

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Press the **OK** button and open the menu item.
- Use the cursor keys **▲▼** to select the HbbTV menu and press the **OK** button.
- Select On with the cursor keys **▲▼** and press the **OK** button. The setting then becomes active.
- Press the **EXIT** button. HbbTV will now be active.


Opening HbbTV:

- Press the **R** button. The HbbTV service will appear.
- Use the cursor buttons **◀▶ ▲▼** or the coloured buttons to make the desired selection and press the **OK** button. The selection will appear on the screen.

Closing HbbTV:

- Press the **EXIT** button.

18 Digital/USB Recording to Hard Disk

 *It is possible to connect an external hard disk (not included with the TV set) to a USB port on the TV set.*

USB recording makes it possible to record TV or radio broadcasts to an external hard disk via the USB socket.

The electronic programme guide (TV Guide) is available for recording TV broadcasts, see Chapter 11.2.

 **We recommend external hard disks as recording media for USB recording.**

Flash drive storage can only be used to a very limited extent. This is because the storage medium needs to provide sufficient storage capacity for recording broadcasts (at least 8 GB) and fulfil certain minimum read and write-speed requirements

18.1 Notes on Using Hard Disks

Hard Disk Drive

A hard disk drive is very sensitive. The hard disk may fail if it is used long-term improperly or in an unsuitable environment. Indications of this include things like playback being unexpectedly blocked or strange mosaics appearing in the picture. If the hard disk drive fails, recordings cannot be played. In such a case, please contact your dealer.

Important Recordings on the Internal Hard Disk

An internal hard disk is not intended to serve as permanent storage for your recordings. Data and/or recordings that are important to the user should also be backed up on an external storage medium, such as an external hard disk. METZ cannot assume any liability for recorded material that is lost or damaged as a result of a malfunction or disruption of the hard disk, whether directly or indirectly.

Installation and Use

- Do not subject the external hard disk to shocks or vibrations, especially if the TV set is in operation.
- Place the TV set and external hard disk on an even, stable surface that is free of vibrations.
- Do not cover or block the cooling vents or other ventilation openings on the external hard disk or the TV set.

18.2 Preparing the external USB drive







The external hard disk is suitable up to a capacity of 1 terabyte and must be formatted as the “primary partition” with “FAT16” or “FAT32”.

 **The connected USB hard disk appears in the TV menu under “Notifications”. Never format the USB hard disk via the menu of the TV set using the menu item “Set up as storage device”.**

18.2.1 Initialising the external hard disk for Timeshift recordings

The hard disk must be initialised before it is used for the first time as a recording medium for the Timeshift mode.

Initialising the external hard disk for Timeshift

- Connect the external hard disk to the USB socket with 900mA.
- Press the  (TIMESHIFT) button.
The following message will appear on the screen: “Drive not initialised! Do you really want to initialise the drive?”
- Press the  button.
- Press the  button and confirm the message “Initialise”.
- Use the cursor keys   to select the size of the Timeshift memory area, which should be at least 4GB.
- Press the  button.
The hard disk will be initialised for Timeshift mode.




18.3 Activating Your TV for USB Recording

You can connect an external hard disk to your TV set and use it to record broadcasts and for the Timeshift feature.

We call this USB recording. This feature is very useful and easy for you to set up. All you have to do is visit the Metz website at <https://www.metzblue.com/support/> and note down the release code. Enter this code on your TV set. This service is free of charge and does not require registration.

18.3.1 Activating the TV set

Your Metz TV set has a specific 20-digit **Request Key**. You can use this to request the 7-digit **Activation Key** via the Metz website at www.metzblue.com.

- Press the  button.
The info bar will be displayed.
- Use the cursor key  to select Record and press the  button.
- If the TV set has not yet been activated, the information for the request key will appear here.

Please ask on www.metzblue.com with the request key for the free activation key and enter it into the input field below.

Request key JWWW-XXXXX-YYYYY-ZZZZZ

Activation key





Visit our website at [www.metzblue.com / Support /USB-Recording](http://www.metzblue.com/Support/USB-Recording) and enter the request key which is displayed by the TV set.

 **Please enter only capital letters.**

Once you have entered the request key, you will receive an activation key (number code).

- Use the numeric buttons on the remote control to enter the activation key.




After you have entered the activation key, use the cursor button  to select Done and press the  button.

The TV set will start recording immediately.

The TV set is now activated for Timeshift and recording. Now you can connect any hard disk which is suitable for these features.

18.4 Start/Stop Timeshift

If you want to pause during a running DTV broadcast, you can start Timeshift mode.





- Press the  (TIMESHIFT) button.
The current broadcast will be stopped and the image will be frozen (freeze frame).
- Press the  (INDEX) button and the broadcast will be started in Timeshift mode. The broadcast will continue with a time delay.
- Press the  button (CANCEL) to stop Timeshift mode.

For security reasons, a request will appear on screen.

Confirm this with Yes.

18.5 Instant Recording

In DTV mode, you can start an instant recording at any time.

- Press the  button.
The info bar will be displayed.
- Use the cursor key  to select Record and press the  button.
- If the TV set has not yet been activated, the information for the request key will appear here. Proceed as described in section 18.2.1.
A flashing red dot will appear at the top right of the screen to indicate that a recording is in progress.
- Press the  button (CANCEL) to stop the instant recording.
For security reasons, a request will appear on screen.











18.6 Timer Recording

See Chapter . 11.2.

18.7 Media (Playing Recordings)

(Only for Devices with External Hard Disks)

The Media Player enables the playback of stored content on the external hard disk.

- Press the  button. A selection of apps will appear.
- Use the cursor keys     to select the Media tile and press the OK button.
The media content will be displayed.
- Select the desired content with the cursor keys     and press the  button. The selection will be opened.

19 AV Devices

19.1 Connecting Devices

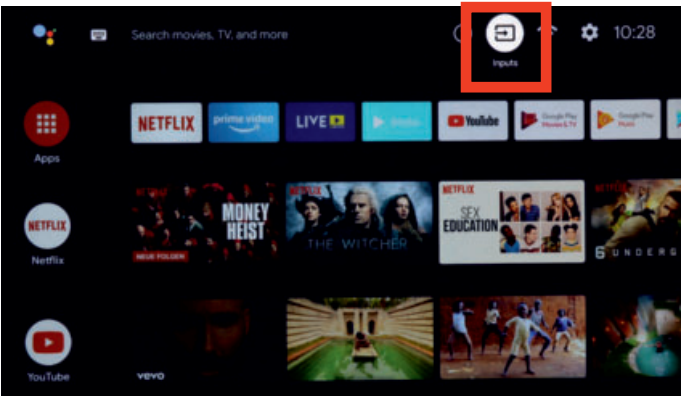
AV devices (audio/video) are additional devices which emit picture and/or sound signals (e.g. video recorders, DVD players, DVD recorders, PCs, decoders, etc) and can be connected to a TV device.

19.2 Selecting Signal Source/Input (AV Devices)

To view the image of a connected AV device, select its connection socket.

Selecting an AV device input signal:

- In LIVE TV mode, press the (HOME) button. The selection will appear.
- Use the cursor keys ▲▶ to select “Inputs” and press the (OK) button.



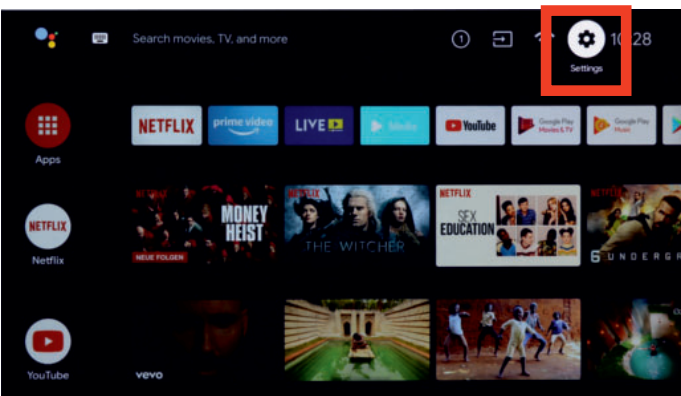
- Use the cursor keys ▲▼ to select the desired input, e.g. “HDMI1”, and press the (OK) button.

19.2.1 Configuring Inputs

The connected AV devices can be given a logical name and shown or hidden from the selection as required.

Show Input and Set Name:

- Press the (HOME) button. The selection will appear.
- Use the cursor keys ▲▶ to select “Settings”.



- Press the (OK) button.
- Use the cursor key ▼ to select “Inputs” and press the (OK) button
- Use the cursor keys ▲▼ to select the desired input, e.g. HDMI1, and press the (OK) button. The input will be displayed and the menu line “Diesen Eingang anzeigen” selected.
- Press the (OK) button. The input will be marked with a tick ✓ and shown in the menu. If the tick is not shown, this input will

not be shown in the menu.

- Use the cursor keys ▲▼ to select the desired name of the input device, e.g. DVD, and press the (OK) button. If the (SOURCE) button is pressed later, the name set for the HDMI1 socket, in this example “DVD”, will appear.

19.2.2 HDMI Control (CEC Function)

Consumer Electronics Control (CEC) is a control function that allows basic functions of connected AV devices to be controlled with the METZ remote control.

To enable this, the AV device must be connected to the TV set with an HDMI cable which supports the HDMI CEC functions. The general purpose of these CEC functions is to simplify cabling requirements while providing integrated control.

Setting the CEC Function

- Press the (HOME) button. The selection will appear.
- Use the cursor keys ▲▶ to select “Settings”.
- Press the (OK) button.
- Use the cursor key ▼ to select “Inputs” and press the (OK) button
- Use the cursor key ▼ to select “HDMI-Steuerung” and press the (OK) button. The slider will move to the right and the HDMI control is activated.


19.2.3 Switching On TV Set Automatically Using HDMI Control

The TV set can be switched on together with the AV/HDMI device.

- Press the (HOME) button. The selection will appear.
- Use the cursor keys ▲▶ to select “Settings”.
- Press the (OK) button.
- Use the cursor key ▼ to select “Inputs” and press the (OK) button.
- Use the cursor key ▼ to select “TV automatisch einschalten” and press the (OK) button. The slider will move to the right and the HDMI control is activated.

20 Cleaning the device

 **Switch off the device with the power switch before cleaning !**

 **Improper handling and cleaning can cause irreparable damage to the screen. Consequently, pay attention to the rules on handling and caring for the device.**


- Handle the screen surface very carefully and gently.
- Avoid any mechanical stress to the screen surface by knocking, shocks, pressure, scratching, scraping, etc, since this can lead to damage.
- Avoid contact with pointed, sharp or hard objects.
- The screen surface must be preserved against dirt.


Care and cleaning:

- Switch off and unplug the device before cleaning.
- Take care that water or other liquids never gets into the device, since these can cause damage to the device.
- Cleaning of the screen surface must occur with a soft, dry cleaning cloth (e.g. microfibre cloth).
- If significant soiling nevertheless occurs, the screen surface can be cleaned with a slightly moist, soft cloth.
A special TFT cleaning solution (commercially available at specialised dealers) is the perfect cleaning solution.

 **Never use cleaning solution on the screen surface!**

If any cleaning solution penetrates beneath the screen's lower frame, it will result in irreparable damage to the components.

 **Unplug the set immediately if foreign bodies like water, other liquids, metal parts, etc get into the screen.**

 **Never attempt to touch the inside of the set with any objects or with your hands. Danger of electric shock or accident.**

21 Special Instructions for OLED TV Sets

OLED TV sets are equipped with OLED screen technology.

OLED's major advantage in image quality is due to OLED being an individually controllable self-illuminating technology at the sub-pixel level. When differentiated display controls are available, the wear caused by **still images** and image components is worse. Still images should thus be **avoided** or limited if possible.

In LiveTV mode, the device has various internal mechanisms that prevent a negative influence on the picture quality. However, the prescribed automatic calibration cycles must be performed in standby mode.

To ensure that your OLED TV always delivers a first-class image, you should pay attention to the following notes:

- Avoid still images over longer time periods.
- Avoid images with static elements (e.g. a static outer frame containing a moving image) over long periods.
- Avoid using presentation mode.
- After every 4 hours of operation, the device starts an RS compensation cycle as soon as it is put in standby mode. The TV screen will remain dark. This process lasts a few minutes and removes residual stress in the OLED panel control.
- After around 1500 hours of operation, JB compensation will be performed as soon as the **device is put in standby mode**. The TV screen will remain dark. During the last few minutes of JB compensation, a thin white line will be visible, travelling from top to bottom. Irregularly aged subpixels will be captured and compensated for. This process lasts about 70 minutes and removes residual stress in the OLED panel control.
- Do not switch off the TV set with the mains switch until the red standby indicator is the only one which is still lit.

22 Resetting the TV to Factory Settings and Restarting the Configuration Wizard

- Press the **MENU** button during LIVE TV operation. The Picture Mode menu will be active.
- Use the cursor keys **▲▼** to select More and press the **OK** button. The Settings menu will open. The menu line for TV Settings will be selected.
- Select Storage & reset with the cursor key **▼** and press the **OK** button.
- Use the cursor key **▼** to select Factory data reset and press the **OK** button. The TV set will be reset to the factory settings. All saved settings will be deleted.

23 Problem, Possible causes, Remedy

Problem	Possible cause	Remedy
TV set does not respond to remote control	<ul style="list-style-type: none"> • No direct line of sight contact between remote control and TV set. • Direct sunlight shining on infrared window of TV set. • Remote control batteries flat. 	<ul style="list-style-type: none"> • Establish sight contact. • Avoid sunlight exposure. • Replace batteries.
After switching on the TV, the message “Bitte Passwort eingeben” or “Kanalsperre” appears on the screen.	<ul style="list-style-type: none"> • Parental control was programmed and this programme or these programmes have been blocked.. 	<ul style="list-style-type: none"> • Press the OK button and enter the PIN code with which you programmed the parental control. • Switch off parental control (Ch. 16.3)



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A series of horizontal lines for writing on the right side of the page.

