#### **Detailed instruction manual**



You can find the detailed instructions at www.grundig. de under "Service".

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#### **EU** directives



This product complies with the following EU directives:

2014 / 53 / EU 2014/30/ EC. 2014/35/EC, 2009/125/EC, 2017/1369/EU and 2011/65/EU.

TV's wireless system can only be used in the countries below.



AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  $\mid$  is, it, li, lt, lu, lv, Mt, Nl, NO,

PL, PT, RO, SE, SI, SK, HR, TR.

The use the 5150-5350 MHz band is restricted to indoor use only. (For Wi-Fi/ Bluetooth built-in model or Wi-Fi Built-in model).

This device can also be operated in the countries outside Europe.

## **About your TV set**

- With your TV set, you can receive and watch digital TV programmes over DVB-S, DVB-T and DVB-C, along with analogue TV.
- Many features of the TV set require an Internet connection. The TV set is equipped with WLAN and a LAN port.
- The TV set can record TV programmes. For this feature you need a USB storage device, such as an external hard drive (not included). Recorded TV programmes can only be played on the same TV set. After the TV st is repaired, it is possible that recorded programmes may no longer be able to be played back.
- The twin-triple tuner enables PIP function so you can view one TV programme in the main picture and another in an inset picture.
  - You can now also view one TV programme while recording another programme.
- You can connect various data media, for example, an external hard drive, a USB memory stick or a digital camera to the USB sockets. Using the file browser, you can then select and play the file formats you want (for example, MP4, MP3 or JPEG data).
- With the Time Shift function, you can easily stop and resume a programme with the remote control in a fast and simple way. Programme is recorded to the external data medium.

## Intended use

- The TV set is designed for use in dry
- Use the TV set with the supplied stand or a suitable VESA bracket.
- The TV set is primarily intended for the playback of TV programmes, streaming content and audio/video material from external devices. Any other use is strictly prohibited.

It is not intended as an information display or for predominant use as a computer monitor. If a still image or a non-full-format image is displayed for an extended period, visible traces may remain on the screen for some time.

This is not a defect that can be used as the basis for a warranty claim.

## Safety

#### **A** WARNING

#### Risk of electrical accident

- Do not open the TV set. Safety risk may arise and also the guarantee of the product can be void if the television set is opened.
- The TV set can only be operated with the power cable or the AC/DC adapter supplied with the product.
- Do not operate the TV set with a damaged power cord/AC/DC adaptor (if supplied).
- If the plug on the TV set has an earthing contact, only insert the plug into a socket with an earthing contact.
- Plug the TV set into the mains socket only after you have connected the external devices and the antenna.
- Protect the TV set from moisture. Do not place any vessels filled with water (such as vases) on the TV.

#### Fire hazard



To prevent the spread of fire, keep candles or other open flames away from this product at all times.

- Do not cover the ventilation slots on the
- Always unplug the power plug and antenna plug during a thunderstorm.
- Keep candles or other open flames away from the TV set.
- Do not expose the batteries to extreme heat such as sunshine, fire or the like.
- Only use batteries of the same type (brand, size, properties). Do not use used and new batteries together.

#### **A WARNING**

#### Injuries caused by falling TV set

Never place the TV set on an unstable surface. The TV set may fall, causing serious injury, possibly leading to death in isolated cases.

Observe the following precautions:

- Only use the manufacturer's recommended cabinets or stands.
- Only use furniture that can safely support the TV set.
- Make sure that the TV set does not protrude beyond the dimensions of the furniture on which it is resting.
- Do not place the TV set on tall furniture (such as kitchen cabinets, bookshelves) without securely anchoring the furniture and TV set.
- Do not place the TV set on fabric or other materials located between the TV set and furniture.
- Instruct children that there is danger associated with climbing on furniture when the TV set is to be reached.

#### **NOTICE**

#### Shortened service life due to high operating temperature

- Do not place the TV set next to heating units or in direct sunlight.
- To ensure adequate ventilation, maintain clearance of at least 10 cm around the TV set.

#### Discolouration of furniture due to rubber feet

 Some furniture surfaces may discolour when they come in contact with rubber. To protect furniture, you can place a sheet made of glass or plastic under the stand. Do not use textile underlays or mats such as doilies.

#### **Environmental information**

Pb

Do not dispose of batteries in the household waste. Used batteries must be returned to

retail stores or public collection points. You help to protect the environment in this way.



Do not dispose of the product along with normal household waste at the end of its service

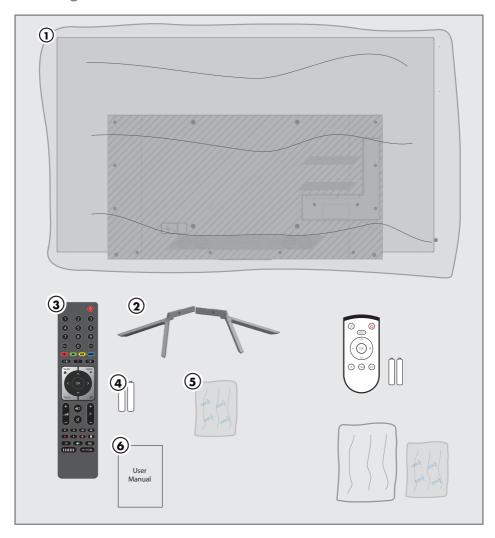
life. Take it to a recycling centre for electrical and electronic equipment.

- Be sure to dispose of packaging materials for your product separately according to the guidelines of local authorities so that they can be recycled in an environmentally safe manner.
- If you are not using your TV set for a while, turn it to standby mode. In standby mode, the TV set uses very little energy (≤ 0.5 W).
  - If you do not use the TV set for an extended period, turn it off with the power switch or unplug the power cord from the socket. If you turn off the device or disconnect it from the power supply, the switch-on timer and programmed recordings will not work.
- Select a location for the TV set so that no direct sunlight falls on the screen. This allows a lower backlight to be selected, which saves energy.

#### **Electromagnetic noise**

- Devices connected to the product (satellite receiver, DVD player, and etc.) or signal emitting devices (router and etc.) close to the product may cause disturbance in the image and noise in the sound.
- Connection cables used on the product must be shorter than 3 m.
- If the product cannot perform its function due to electrostatic discharge, the user may need to switch off and then switch on the product.
- A shielded, HDMI-certified and ferrite cable must be used with the product.

## **Packing contents**



## **Standart accessory**

- 1. TV
- 2. Stand
- 3. Remote control
- 4. Batteries for remote controls
- 5. Screws and mounting instructions for stand
- 6. Brief Instruction

## **Optional accessory**

Easy-Use Remote Control
Batteries for Easy-Use remote controls
Cleaning cloth
VESA bracket screws

## Setting up or hanging

 Select a location so that no direct sunlight falls on the screen.

### Setting up with stand

- To mount the stand, refer to the installation instructions included.
- Place the TV set on a hard, level surface.

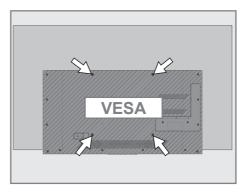
## Preparing for mounting on the VESA bracket

You will need:

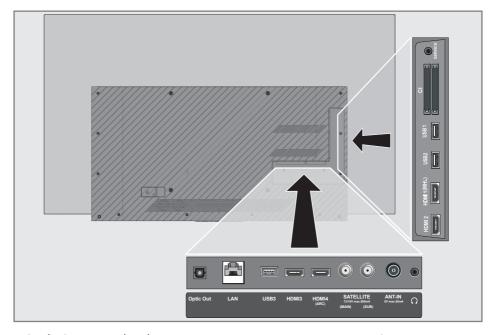
- A pair of scissors,
- A crosstip screwdriver.

Follow the installation instructions for the VESA bracket.

- 1. Place the TV set in the film on a smooth surface with the screen facing down.
- 2. Cut open the film on the back side using the scissors.
- Connect the required cables to the connectors on the TV set. See the "Connections" section in this manual.
- 4. Tie the cables so they do not hang down onto the floor.
- Screw the VESA bracket onto the TV set and mount it according to its installation instructions.



#### **Connections**



- Optic Out: optical audio output
- LAN: Network connection
- **USB 3:** for data media or keyboard.
- HDMI3: Input for digital audio and image data.
- HDMI4 (ARC): Input for digital audio and video data with audio return channel.

#### **SATELLITE:**

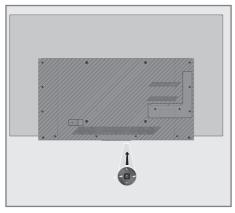
MAIN: for satellite antenna. Suitable for single-cable GSCR system.

**SUB:** for the second satellite signal (DVB-S).

- ANT IN: for antenna cable (terrestrial antenna or cable connection).
- \(\Omega\): Headphone jack or line output via adapter.

- **SERVICE:** Service only.
- CI1, CI2: for CA modules for receiving encrypted stations.
- USB 1: connect data media for recording programmes, such as an external hard disk.
- USB 2: connect data media for recording programmes, such as an external hard disk.
- HDMI1 (MHL): Connect input for digital audio and video data, mobile devices with Mobile High-Definition Link here.
- HDMI2: Input for digital audio and image data.

### **Control elements**



## Switching on the TV

Press or rock the multi-function switch.

## Turning the TV to standby

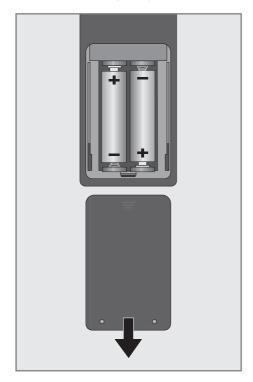
- 1. Press the multi-function switch.
- 2. Rock until "Switch to standby" is selected.
- 3. Press.

## Adjusting the volume or changing the station

- 1. Press the multi-function switch.
- 2. Rock to select the required function.
- 3. Press.
- 4. Rocking now performs the selected function

## Inserting batteries into the remote control

- 1. Open the battery compartment.
- Insert batteries as marked on the bottom of the battery compartment (2 × Micro/R03/AAA).
- 3. Close the battery compartment.



## Setting up the TV set

- Connect the cables.
- 2. Insert the power plug into the socket.
- 3. Switch on the power switch.
- 4. Switch on the TV set with (b) on the remote control.
- 5. Follow the setup wizard on the screen.

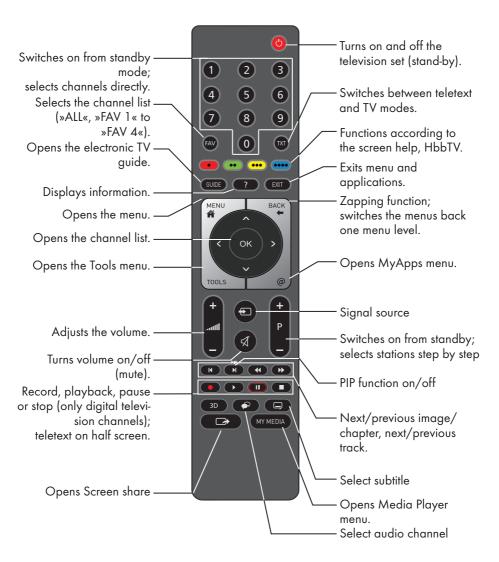
## Adding new TV stations at a later point

- 1. Press MENU
- 2. Select »Settings«.
- 3. Select »Source«.
- 4. Select »Automatic Channel Search«.
- 5. Select the antenna type.
- The next procedure depends on the selected antenna. Follow the instructions on the screen.

## Sorting TV stations in the channel list

- 1. Press (OK).
- 2. Press ? ).
- 3. Choose the TV station you want to move, and highlight it with (OK).
- 4. Press •• ).
- Use the navigation keys to move the TV station to the new position and confirm with OK).

#### Remote control



#### **Cursor Control**



Moves the cursor up and down in the menus.

Moves the cursor left/right in menus.

Opens channel list; activates various functions.

#### **Favourites lists**

You can organise TV and radio stations in favourites lists.

## Saving a station to the favourites list

- 1. Press ?
- 2. Press (FAV).
- 3. Select the favourites list and confirm with (oK).

## Opening the favourites list

- 1. Press (FAV).
- 2. Select the favourites list and confirm with OK).
  - Now only stations that are stored in the selected favourites lists are available.

## **Zapping function**

This function allows you to save a station to which you want to return during frequent changes of the station (zapping).

- 1. Press to save the current station.
- 2. Select other stations (zapping).
- 3. Press to switch to the station on which was most recently pressed.
- 4. (EXIT) terminates the function.

#### **HbbTV**

HbbTV is the interactive successor to teletext, with content in modern design, high-resolution images and video sequences.

For full functionality of HbbTV, the TV must be connected to the Internet.

After you switch to a TV station that offers HbbTV, a corresponding message appears.

 Turn on HbbTV with the colour key that appears after you switch to the TV station.

## Recording from digital TV stations

Recording and playback of TV programmes can only be carried out using an external data medium (hard drive or USB stick).

If you want to use the record function with digital satellite programmes (DVB-S) and watch a different digital satellite TV programme at the same time, you need to connect a second satellite cable to the **SATELLITE SUB** socket.

#### **Direct recording**

- 1. Press to record the current programme.
- 2. Press to stop recording.

#### **Programming a recording**

- 1. Press GUIDE to display the programme guide.
- 2. Select the required programme.
- 3. Press to programme the recording of the broadcast.

## Editing the list of scheduled recordings

- 1. Press MENU
- 2. Select »Schedule List«.

#### Tips

- To start the recording, switch the TV set to the corresponding station. A few seconds before the station is switched, a message appears. You can cancel the switching and the recording select »No« with ✓ or ➤ and pressing (ok).
- The option of recording and playback of recordings may be limited by the station provider.
- External hard drives that require ≥ 500 mA of current may only be connected to sockets USB1 and USB2.

- In order to reliably record programmes in HD, connect a fast data medium with a USB3.0 connection to the USB1 and USB2 ports.
- For one hour of recording, you need 2.6 to 6.6 GB of storage space.
- Recorded programmes can only be played back on the same TV set.

## Watching TV with time shift

For this function, you need an external data medium.

- 1. Press to pause the current programme.
- 2. Press to continue the programme.
- 4. Press to return to the current programme.

#### **Tips**

- The time shift can be up to one hour.
- The option of watching TV with time shift may be restricted by the station.
- By default, rewinding is only possible up to the point where you pressed II.
  You can set the TV set so that you can rewind by up to an hour:
- 1. Press MENU
- 2. Select »Settings«.
- 3. Select »TV«.
- 4. Select »Advanced«.
- Select »Permanent Time Shift« and switch it on with >.
- 6. Press EXIT).

## Media player

The media player displays images and plays recorded programmes, films and music. Films, music and images can be stored on a connected USB device or be provided by a DLNA media server.

## **Playing media**

- 1. Press (MY MEDIA).
- Select media source. To play TV recordings on the external data medium, select »PVR«.
- To display image or music files: Select on the top left, then »All«, »Music« or »Photos«.
- 4. Navigate to the file or recording and press (OK).

#### **Tips**

- When playing films and images, press
   on the remote control to display buttons.
- Music can be played with images. During the playback of images, press ? and select .
- Films can be played with subtitles. The file name of the subtitle file must be identical to the file name of the film file. Both files must be in the same folder. Subtitles in the format .SRT, .SUB, .ASS, .SSA, .SMI are supported.

Turning on the display of subtitles:

- During playback of a film, press
- 2. Select Subtitles with V.
- 3. Enable subtitles with (OK).

### **SMART inter@ctive TV 4.0+**

SMART inter@ctive TV offers apps that allow you to conveniently use various Internet services.

## **Opening Application Center**

- 1. Press @ on the remote control.
- 2. Select the app and launch it with (OK).

## **Opening All Apps**

 In the »Aplication Center« menu, select the »All Apps« option on the top right.

### Web browser

## Launching the web browser

- 1. Press MENU
- 2. On the menu bar, select the »Web Browser« option.

## GRUNDIG 65 GOS 9798 FINE ARTS OLED

#### **Product data sheet**

Energy efficiency class

Screen diagonal 164 cm/65 inch

Power consumption

Operation 151 W/450 W max.

Standby 0.45 W

Networked standby 2.90 W

**Annual power consumption** 

220 kWh

Maximum resolution 3840 × 2160

**Additional information** 

**Operating voltage:** 

220 ... 240 V~, 50 ... 60 Hz

Screen (dm²)

115 dm<sup>2</sup>

**RoHS** limits

Pb (lead)/Hg (mercury)

Pb concentration complies with RoHS limits/

0 mg

Peak luminance ratio

65%

**Audio output** 

2 × 30 W music power

 $2 \times 15$  W sine power + 15 W sine power of

the subwoofer

The subwoofer is optional and therefore not available on all products.

**Default satellites** 

20

LNB power supply

13/18 V, 14/19 V optional, maximum

500 mA

LNB switching signal

0/22 kHz 650 mV + /- 250 mVpp

**DiSEaC** 

1.0-operation, 1.1-operation, 1.2-operation

Digital reception ranges

2 x Satellite

Ku band: 10,700 MHz ... 12,750 MHz Modulation: DVBS QPSK, DVBS2 QPSK,

8 PSK

IF band: 950 MHz ... 2150 MHz Signal level: -25 dBm ... -65 dBm

2 x Cable

Overall band: 110 MHz ... 862 MHz Modulation: 16 QAM, 32 QAM,64 QAM,

128 QAM and 256 QAM

Symbol rate: 4.0 Msym/s ... 7.2 Msym/s

2 x Terrestrial (DVB-T)

VHF/UHF-Band, bandwidth 7 MHz and

8 MHz

FFT size: 2 k, 8 k

Modulation: 16 QAM, 64 QAM, QPSK Guard interval: 1/4, 1/8, 1/16, 1/32

2 x Terrestrial (DVB-T2)\*

VHF/UHF-Band, bandwidth 7 MHz and

8 MHz

FFT size: 1 k, 2 k, 4 k, 8 k, 16 k, 32 k

Modulation: 16 QAM, 64 QAM,

256 QAM, QPSK

Guard interval: 1/4, 19/256, 1/8, 19/128,

1/16, 1/32, 1/128

\* DVB-T2 is optional and therefore not avail-

able on all products.

**Analogue reception ranges** 

C02 ... C80, special channels S01 ... S41

**Preset channels** 

TV/Radio 6000 (satellite - DVB-S),

1000 (cable - DVB-C)

or 99 (analogue)

1000 (terrestrial - DVB-T) or

99 (analogue) 4 AV, 3 USB

Supported media files

Image files: jpg/jpe, bmp, png
Music files: m4a, wma, aac

Video files: mov, xvid, mpg, mpe, vob,

dat, trp, ts, avi, mp4, mkv

Weight

approx. 19,4 kg

**Dimensions** 

 $W \times H \times D 145,1 \text{ cm} \times 84,2 \text{ cm} \times 4,6$ 

Technical changes and errors reserved.

#### Licence

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# Explanation of the symbols which may be present on back side of the television set



Class II or Double insulation. Television set doesn't require connection to electrical earth (ground).



Alternating current. The set works only with AC line voltage in your household electricity.



Direct current. The set works only with AC/DC adapter.

#### **Network interfaces**

This product is intended for connection to the ADSI network

## **Cleaning the TV set**

Pull the power cord out of the mains socket. Clean the appliance with a damp cloth and a mild detergent. Do not use any detergents containing alcohol, spirit, ammonia or scouring agent.

Use a damp, soft cloth to clean the screen. Do not use water with soap or detergent.

#### **Abbreviations**

- ARC: Audio return channel, transmits sound from the TV via an HDMI connection.
- AV: Audio/video.
- CAM: Module for receiving encrypted TV channels.
- CI: Slot for modules for receiving encrypted TV channels.
- DLNA: Organisation that develops standards for networking home devices and certifies devices and software.
- GSCR: Grundig Sat Channel Router. Technology that allows multiple TVs to be connected to a satellite antenna using a single-cable system.
- HbbTV: Standard for information and services that are offered with the TV signal as well as by the Internet, an additional service offered by some broadcasting stations.
- HD: Collective term for high-resolution audio/video data, usually 720 or 1080 lines.
- HDMI: Connection for high-resolution digital audio/video data.
- MHL: Connection for the transmission of high-resolution audio/video data from mobile devices.
- LAN: local area network.
- VESA: Organisation that has developed a standard for the attachment of screens.
- WLAN: wireless local area network.