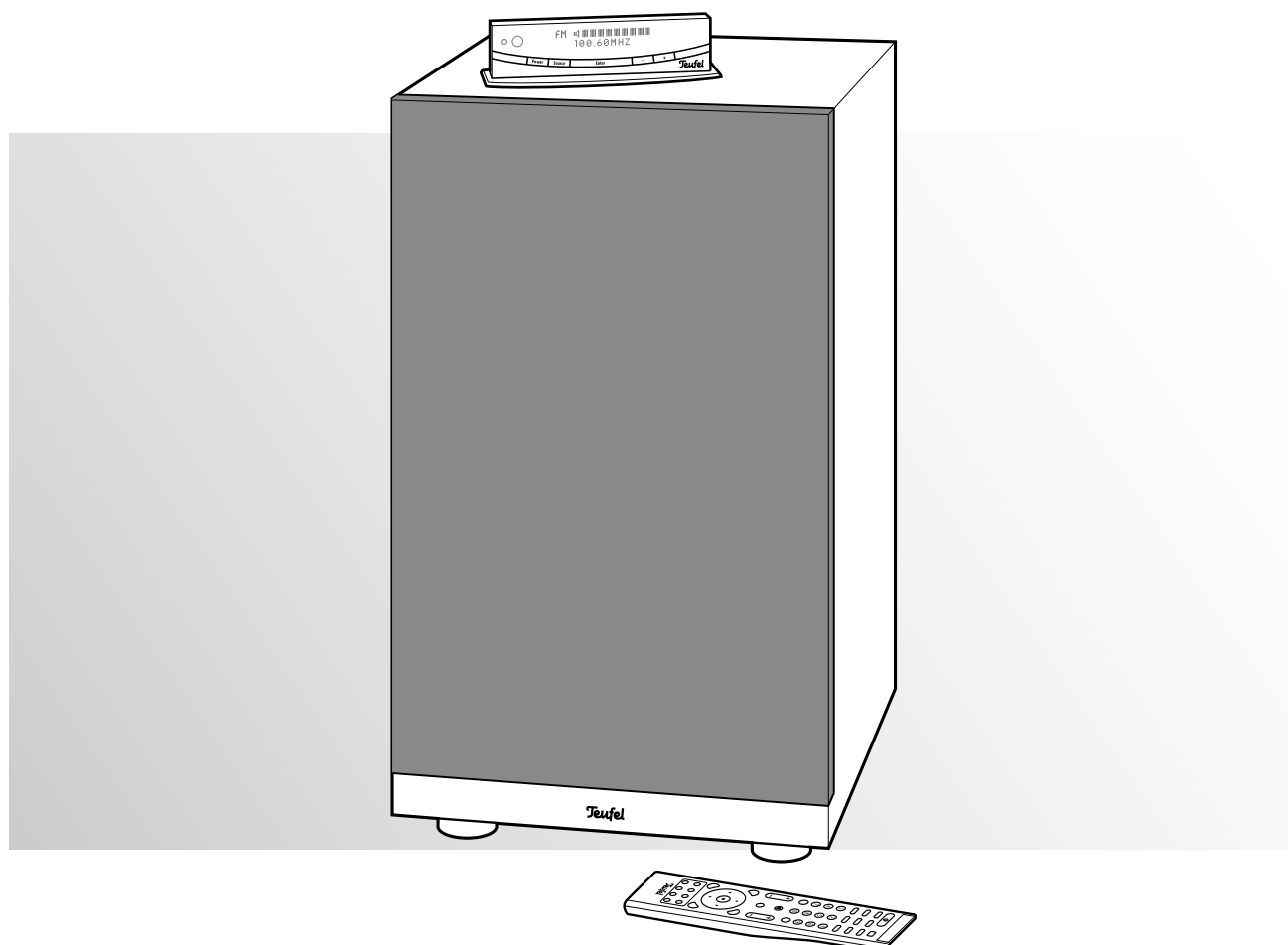


Technical Description and Operating Instructions



US 6112/6 RHD

AV Receiver Subwoofer
High Definition Audio

Teufel

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General notes and information

Notice

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May 2012

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Original packaging

If you wish to exercise your eight-week right of return, we ask that you be absolutely sure to hold onto the packaging. We can only accept the return of the speakers WITH THE ORIGINAL PACKAGING.

Empty boxes are not available!

Complaints

In case of complaint we will need the following information to process your enquiry:

1. Invoice number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543

2. Serial number or batch number

Located on the back of the unit,
e.g. serial number: US61120240129A-123.

Many thanks for your support!

Contact

For questions, suggestions or other issues please contact our customer service department:

Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen
Buelowstrasse 66
10783 Berlin (Germany)

Phone: 00800 - 200 300 40 (free of charge)

Fax: +49 (0)30 / 300 930 930

E-mail: service@teufelaudio.com

www.teufelaudio.com

Proper use

Only use the unit as described in these operating instructions. Any other use will be deemed as not in accordance with the instructions and may lead to damage of property or even persons.

The manufacturer accepts no liability for damage caused by use not in accordance with the instructions.

The unit is intended for private use.



Before operating the unit for the first time please read the safety notes and operating instructions carefully. This is the only way to use all functions safely and reliably.

Keep the operating instructions safe and pass them on to anyone who may own the unit after you.

Safety notes

Caution icons

You will find the following caution icons in these instructions:

Danger**High risk!**

Failure to observe the warning may result in severe personal injury or death.

Attention**Moderate risk!**

Failure to observe the warning may result in property damage.

**Minor risk!**

Points which should be observed when handling the unit.

Safety notes

Danger**Risk of electric shock!**

Faulty electrical installation or mains voltage which is too high may result in an electric shock.

- The device is only suitable for use with a power supply voltage of 230 V~/50 Hz.
 - If the unit's case or mains cable is defective or shows other signs of visible damage, disconnect the mains adapter immediately from the socket and do not operate the device.
 - If the unit emits smoke or smells of burning or other unusual odours, disconnect it immediately from the power supply and do not operate it.
 - Never open the unit housing.
Repairs may only be carried out by an authorised specialist workshop. Only parts which conform with the original device specifications may be used for repairs. This device contains electrical and mechanical parts that are imperative for providing protection against sources of danger.
 - Do not insert any objects through the vents into the case.
 - Only use the unit in indoor areas.
 - Do not operate the unit in moist areas and protect it from drops of water and splash water.
Also take care not to stand vases or other containers filled with liquid on or near the unit in order to avoid liquid getting into the housing. If water or other foreign objects do penetrate the case, immediately disconnect the mains plug and if applicable, remove any batteries. Then send the device in to our service address.
 - Never touch the power plug with wet hands.
 - Check the unit regularly for damage.
-

Danger**Danger to children!**

Children can become trapped in the packing film when playing and suffocate.

- Do not allow children to play with the unit or the packing film. Danger of suffocation.
 - Ensure that children do not remove small parts from the unit or take them off of the unit (e.g. control knobs or plug adapters). They could swallow the parts and choke.
Never allow children to operate electrical devices unsupervised.
-

Danger**Danger to hearing!**

Loud noise may lead to hearing loss.

Particularly when the system is activated and has been set to maximum volume, very high noise pressure may be produced. This may have psychological consequences and also cause physical injury. Children and pets are particularly at risk.

- Set the volume control to a low level.
 - When the volume is set high, always keep a certain distance from the unit and never place your ear directly on the speaker.
 - To avoid damage to health, avoid extended listening at high volume.
-

Danger**Danger of chemical burns!**

Leaking battery acid may lead to chemical burns.

- Do not allow battery acid to come into contact with skin, eyes or mucus membranes. In case of contact with acid rinse the affected parts immediately with plenty of plain water and if necessary see a doctor.
-

Danger**Danger of injury/damage!**

Incorrect location may result in damage.

- Never use the units unmounted in vehicles, in unstable locations, on wobbly tripods or furniture, on underdimensioned brackets etc. The speakers could tip or fall down and cause injury to persons or be damaged.
 - Place the speakers in such a way that they cannot be knocked over inadvertently and make sure that the cables do not pose a trip hazard.
 - If mounting the speakers on the wall, make sure that the job is carried out by a professional.
 - Only use suitable wall holders to mount the speakers. Verify the carrying capacity of the walls.
 - Do not place the unit near sources of heat (e.g. heaters, ovens, other heat generating equipment such as amplifiers etc.)
-

Attention Fire hazard!

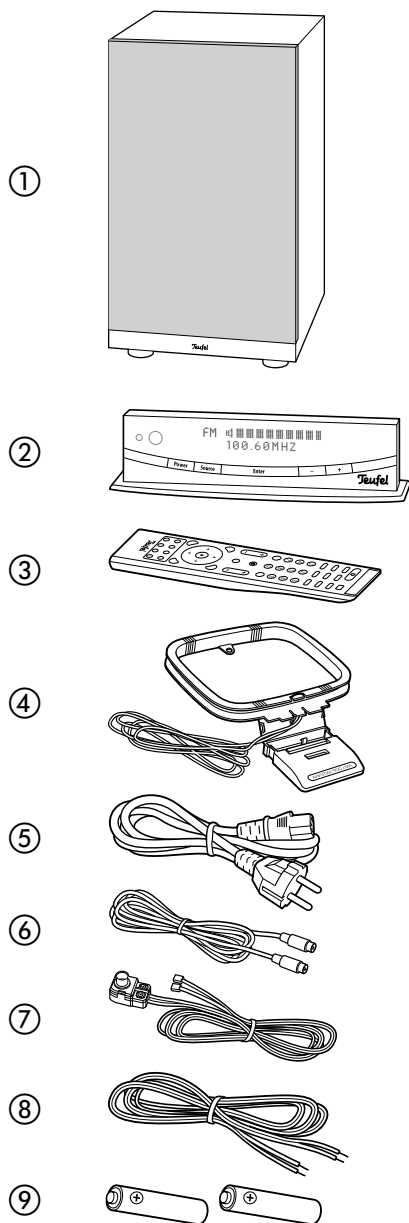
Improper use may lead to damage or fire.

- Do not place open flames such as burning candles or similar on the unit.
 - Ensure sufficient ventilation.
 - Do not place the unit in direct sunlight.
 - Do not cover the vents with curtains, blankets, newspapers or similar. Heat build-up inside the unit can shorten its lifetime.
-

Attention Risk of damage!

Power overload due to lightning strike may damage or destroy the unit.

- If the unit is to be left unsupervised for a long period (e.g. during a holiday), or if a thunderstorm is forecast, disconnect it from the mains power supply.
-



Product contents

- ① 1 x active subwoofer US 6112/6 RHD
- ② 1 x control panel (US 6112/6 CU)
- ③ 1 x remote control (US 6112 6 RC)
- ④ 1 x medium wave (AM) antenna
- ⑤ 1 x mains cord
- ⑥ 1 x system link cable for the control panel ② (US 6112/6 CL)
- ⑦ 1 x FM antenna
- ⑧ speaker cables (only included in complete sets)
- ⑨ 2 x batteries for the remote control

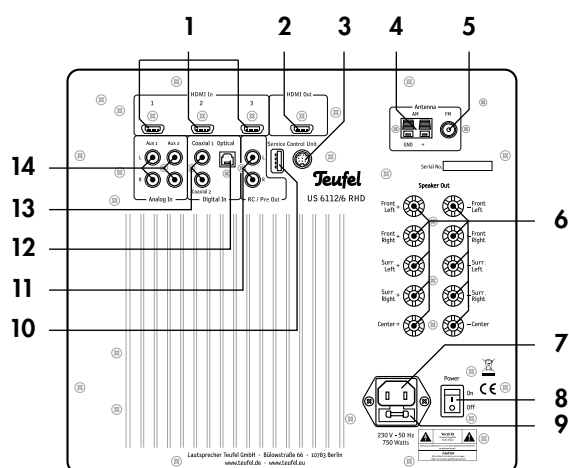
This subwoofer receiver is available as a standalone product or in combination with various speaker sets. Please observe the operating instructions included with the speakers.

Check to be sure

- Check that all items have been delivered and that nothing is damaged.
- If the delivery is incomplete or you find damage sustained in transit, do not operate the unit but contact our service department (see page 3).

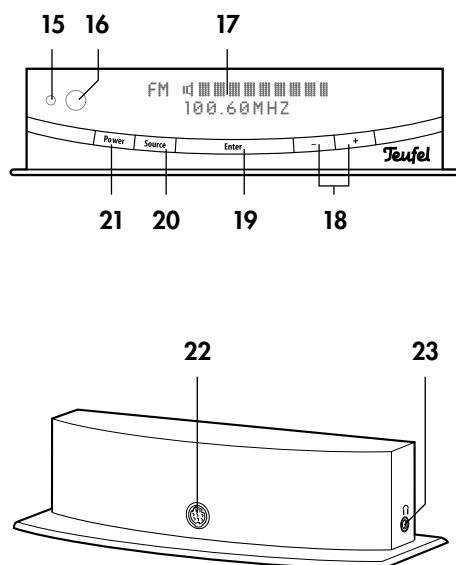
Control elements and connections

Subwoofer backside



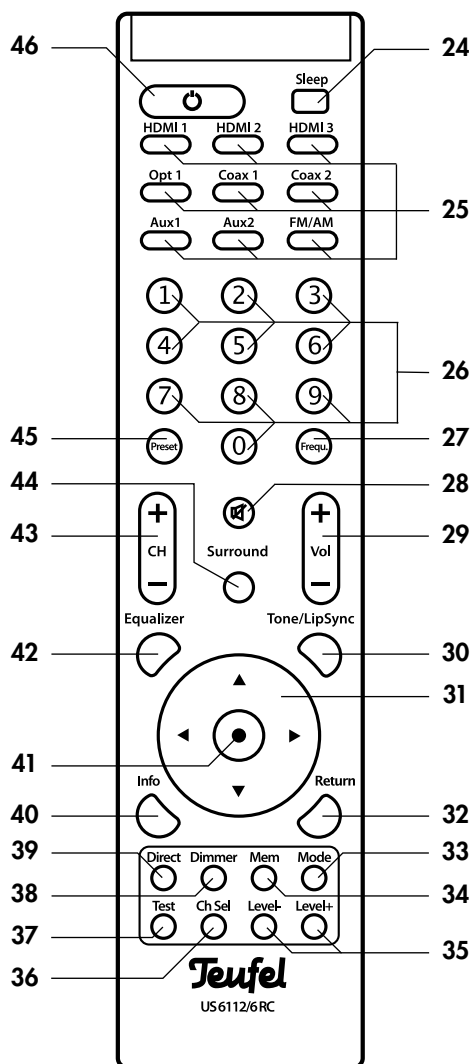
Item	Name	Description
1	HDMI In 1 – 3	HDMI input jacks
2	HDMI out	HDMI output jack
3	Control Unit	Connector jack for the control panel ②
4	AM GND/+	Terminals for medium wave antenna ④
5	FM	Connector jack for FM antenna ⑦
6	Speaker Out	Terminals for satellite speakers
7	–	Connector jack for mains cord ⑤
8	Power	Mains switch
9	–	Mains fuse
10	Service	USB connection (only for service)
11	RC/Pre out	Programmable, analogue audio output
12	Digital In Optical	Digital audio input jack for optical cables
13	Digital In Coaxial 1 – 2	Digital audio input jacks for coaxial cables
14	Analogue In Aux 1 – 2	Analogue input jacks

Display/control panel



Item	Name	Description
15	–	Standby indicator
16	–	Infrared receiver for remote control
17	–	Display panel
18	+ –	Set buttons +/-
19	Enter	Select button
20	Source	Switch signal source
21	Power	Turn the subwoofer on or to standby
22	–	Connector jack for subwoofer
23	🎧	Connector jack for headphones

Remote control



Item	Name	Description
24	Sleep	Sleep function
25	HDMI 1 – 3 Opt 1 Coax 1, 2 Aux 1, 2 FM/AM	Select source device
26	1 ... 0	Number buttons
27	Frequ.	Radio operation: Enter the tuning frequency
28		Mute speakers
29	Vol +/-	Adjust volume
30	Tone/Lipsync	Adjust the sound, set the delay
31		Navigation buttons
32	Return	Return button
33	Mode	Switch between mono and stereo in radio mode
34	Mem	Save to station memory slots
35	Level +/-	Set the channel level
36	Ch Sel	Select the channel for the level adjustment
37	Test	Activate/deactivate test sound
38	Dimmer	Select display panel brightness
39	Direct	Emit sound directly (without sound control)
40	Info	Display the format of the audio signal
41	•	Select button
42	Equalizer	Adjust the sound within 9 tuning frequency ranges
43	CH +/-	Radio mode: Select station memory
44	Surround	Activate/deactivate surround mode
45	Preset	Radio mode: Select station memory
46		Turn the subwoofer on or to standby

Setup

Location tips

- Select a stable, level base.
- Make sure that the environment is clean and free from dust.
- Avoid placing the unit close to sources of heat or in direct sunlight.
- Do not place any heavy objects on the cables or the speakers.

The following data refers to an "ideal home cinema", in which the viewer or listener sits in a central position at sufficient distance in front of the television or screen (see graphic to the right) and no objects (tables or the like) are located in between. Unfortunately, the room, furnishings or other circumstances do not always allow for optimum arrangement.

The following general rule applies: You can always experiment on what works best in your listening room in terms of sound and appearance based on our recommendations. Let your ears (and eyes) decide!

Center speaker

Place the center speaker in a central position directly under or next to the screen.

Front speakers

The front speakers are set up to the right and left of the screen or hung at a height of approx. 40 to 120 cm. They should be roughly in line with the center speaker and form an equilateral triangle with the listener – the so-called stereo triangle (distance from the listener = distance between the speakers). The speakers should project sound directly into the room or slightly towards the listener.

Subwoofer

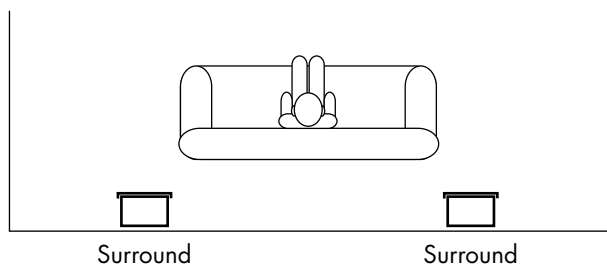
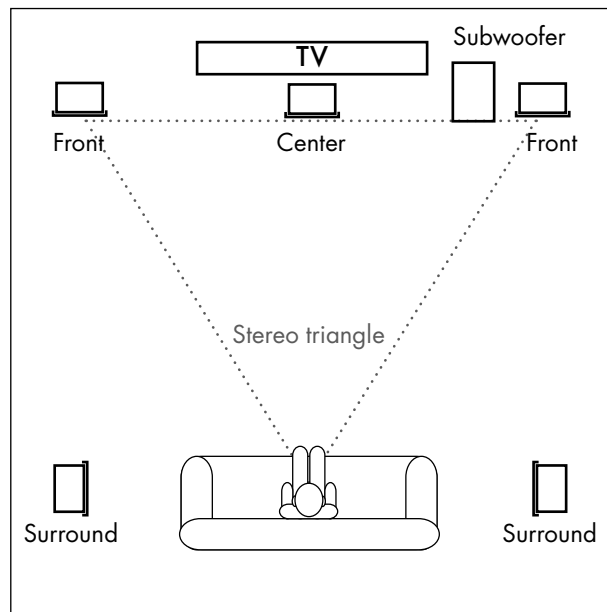
You should also place the subwoofer on the floor close to the television. However, do not place it in the corner of a room as this may cause uncontrollable frequency overloads. Often, a location between the front speakers is ideal.

Surround speakers

The surround speakers are set up or hung at head level (140 to 210 cm) to the side of the listener and pointed towards the listener. The distance to the listener should be at least 100 cm and there should be at least 10 cm of space between the speaker and the rear wall of the room.

You can also place the surround speakers at head level behind the listener and point them towards the screen.

You can find further extensive setup notes on our website.



Analogue audio output

You can also connect an additional stereo amplifier with speakers or (wireless) active speakers to the analogue audio output **11** "RC/Pre Out" and set them to the following modes in the menu:

- 5.1 + 2ch
- 5.1 + 2ch fix
- 5.1 + Surr
- 7.1

5.1 + 2ch / 5.1 + 2ch fix

The 5.1 audio signal is transmitted to the two stereo channels as a result. This way, you can project sound from the cinema into a lobby or bar for example.

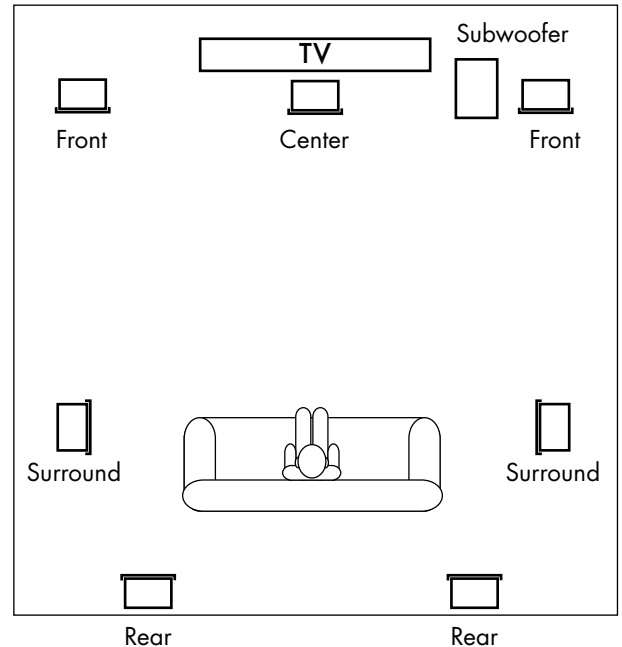
5.1 + Surr

The surround channels are emitted in this mode. As a result, you can control the surround speakers via a wireless signal (e.g. with the Teufel RearStation 4) if it is not possible to lay speaker cables.

7.1

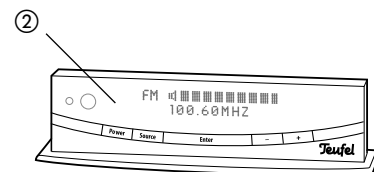
You will need an extra stereo amplifier with speakers or (wireless) active speakers for operation as a 7.1 system. You can set them up behind the listeners as (rear) speakers (see graphic).

Speaker placement in 7.1 operation:



Control panel

The separate control panel ② also contains the receiver for the remote control signals. You should therefore place the control panel in such a way that it is visible from your sitting position.

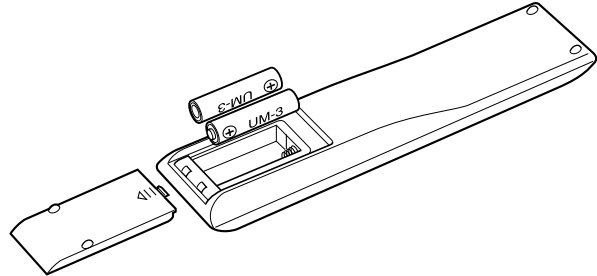


Remote control

You will need two micro-type or AAA batteries with 1.5 Volt (included in the product contents) in order to operate the remote control.

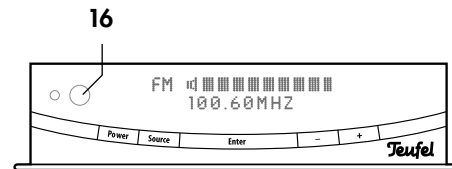
Inserting batteries

- Gently press the arrow on the battery compartment cover on the back of the remote control. Push the cover down and out.
- If applicable, remove any old batteries (please observe the disposal notes on page 23).
- Insert the batteries in the battery compartment as shown in the figure.
- Place the cover back on the compartment and push it closed.



Functionality

The remote control commands are transmitted by infrared light. Therefore, the remote control must be pointed towards the control panel. The infrared receiver **16** is located on the front side. Make sure that the infrared light is not obstructed by any object.



Connecting

Danger Danger of injury/damage!



Arrange the cables so that they do not pose a trip hazard.

Speakers

- Lay the speaker cables from the subwoofer to each satellite speaker. These cables should be high-quality double-wire speaker cable with marked strands.
- A connector terminal with two terminal clips is located on the back side of each speaker. Here you can connect the speaker cables directly or with pin plugs. We only describe the direct connection in these instructions.
- The terminals are each marked in red (+) and black (-).



Make sure that the polarity is correct!

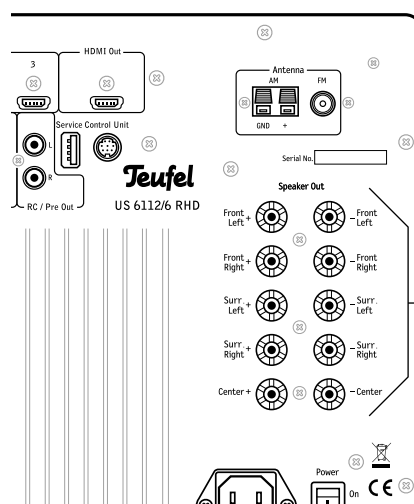
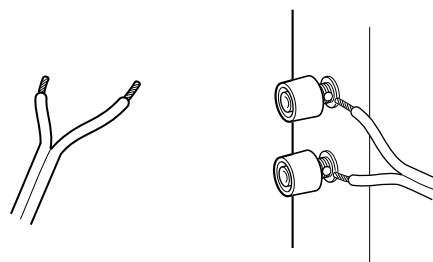
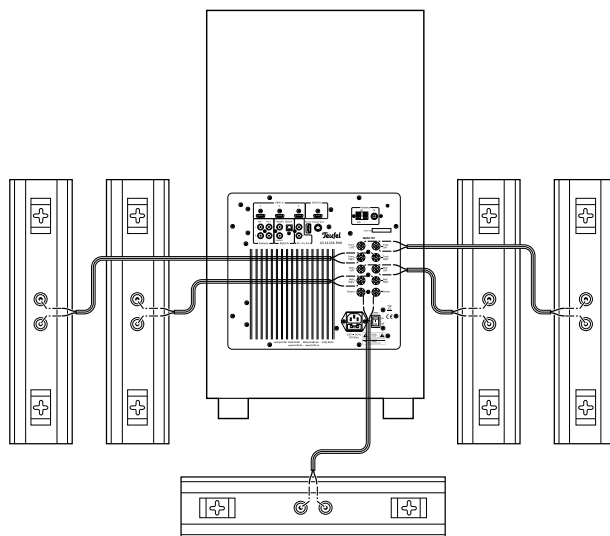
Connect the like coloured terminals. Otherwise the sound quality will suffer. The strands of the speaker cables are marked with different colours or shapes.

- Split the single-wire down to approx. 30 mm on both ends and strip approx. 10 mm of insulation off of each cord. Twist the single-wire so that no strands are protruding.
- Turn the connector terminal counterclockwise until loose. Run the stripped cable end into the now visible hole. Close the terminal by turning it clockwise. The cable is now securely clamped in place.
- Connect all cables to the speakers this way.

The connector terminals 9 "Speaker Out" for the five satellite speakers are located on the back of the subwoofer:

- Front – front speakers, "Left" and "Right".
- Surr. (surround) – rear speakers, left "Left" and right "Right".
- Center – center speaker.

As with the speakers, these terminals are also each marked red (+) and black (-). Connect all cables from the corresponding speakers here.



9

Antennas

Danger Risk associated with lightning strike!



If you are using outdoor or roof antennas, be absolutely sure that the antenna has lightning protection.

FM antenna

Connect the antenna for receiving FM stations to the jack **5** "FM". This may be a roof/outside antenna, but also a cable television connection. You will need a coaxial connector cable for this.

If no antenna connection is available at the installation location, you can use the enclosed throw-out aerial **7**. Push the aerial plug into the jack **5** "FM" and adjust the position of the throw-out aerial for best reception. Then fix the aerial in place.

AM antenna

The enclosed antenna **4** receives medium wave (AM) stations. You can set up this antenna to be free standing or screw it onto a (cabinet) wall.

Connect the aerial's connector cable with the "AM" jacks **4** on the back side of the subwoofer. Press down the connector terminal lever and run the cable end into the opening underneath it. Releasing the lever locks the cable in place.

Inputs for source devices

The subwoofer provides you with three HDMI inputs for digital audio/video signals (HDMI 1 – 3), two analogue sound inputs (AUX 1 and 2) as well as an optical and two coaxial digital sound inputs.

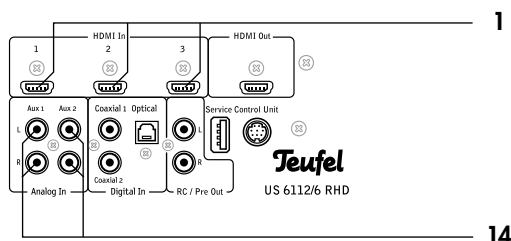
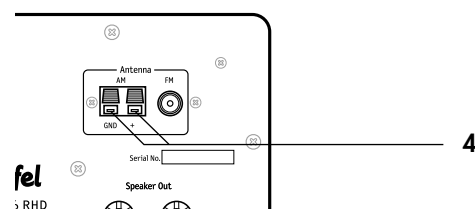
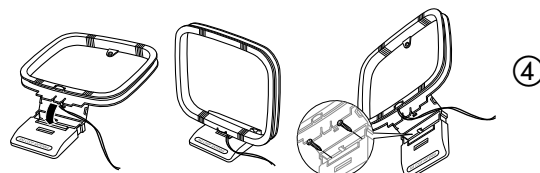
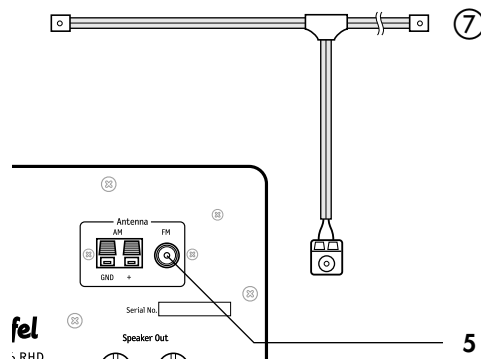
HDMI 1, 2 and 3

You can connect a source device with a digital video and audio signal to the jacks **1** (e.g. PC, Blu-ray player or video game system). You will need an HDMI cable for this.

If a source does not transmit audio via HDMI, you can assign one of the subwoofer receiver's audio inputs to this device in the menu.

AUX 1 and AUX 2

You can connect two source devices with analogue sound to the jacks **14**. You will need a dual RCA cable (L and R) for this.



Coaxial 1 and Coaxial 2

You can connect the coaxial digital audio outputs of two source devices to the jacks **13**. You will need a coaxial cable with RCA plugs for this.

Optical

You can connect the optical digital sound output of a source device to the jack **12**. You will need an optical cable with a TOSLINK plug for this. Your source requires either an optical 3.5 mm jack or a TOSLINK jack.

Television/projector

You can connect your television or your projector to the jack **2** "HDMI Out". You will need an HDMI cable for this.

RC/Pre Out

You can connect a stereo receiver, active speaker or wireless transmission system to the analogue output **11**. You can set the function of this output in the "System conf." menu (see "5.1/7.1" on page 17).

Control panel



With the system link cable **6**, you connect the jack **22** of the control panel **2** with the jack **3** "Control Unit" of the subwoofer. The small plugs only fit into the jacks in one position, with the notch down. Only apply a small amount of force when inserting the plug. Otherwise the thin contacts could bend or break.

Headphones

You can connect stereo headphones with a 3.5 mm phone jack to the jack **23** "H" – the speakers will automatically deactivate as a result.

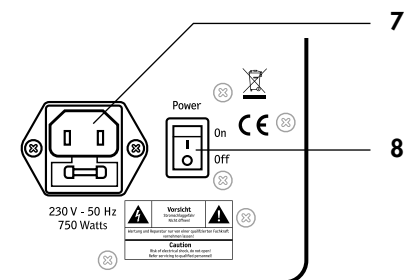
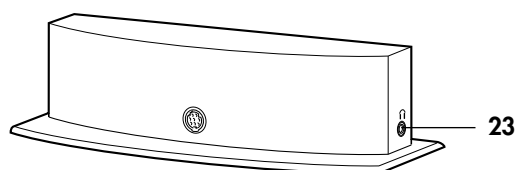
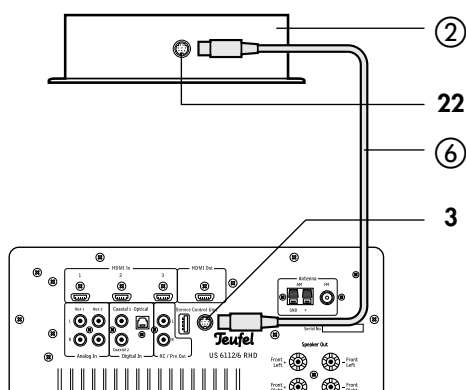
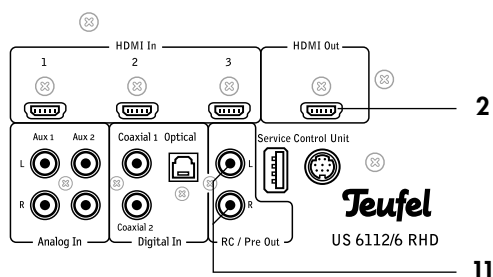
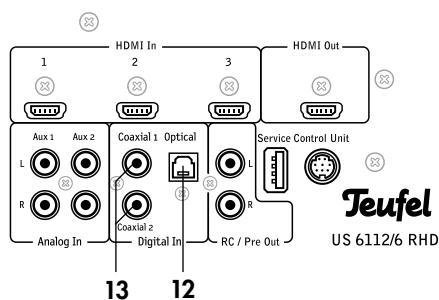


Danger of injury/damage!

Lower the volume before you pull the headphone plug out again; otherwise the speakers may emit unexpected high sound pressure. This could injure your hearing or damage the device.

Connecting to a power supply

- Ensure that the mains switch **8** "Power" on the subwoofer is switched off ("0 OFF" position).
- Connect the power connector jack **7** with a mains socket (230V / 50Hz) using the power cord **5**.



Basic functions

Activating and deactivating

- You can activate and deactivate your subwoofer with the mains switch **8** "Power" on the backside of the device.
After activation, the device is in standby mode and the indicator **15** is red.
- With button **21** "Power" or **46** "⏻" you can switch your subwoofer to operating or standby mode.

Automatic activation

You can turn on automatic activation and deactivation of the device in the menu (see "Standby mode", page 17).

Selecting a source

After turning on the device, the last selected source device is activated.

- With the button **20** "Source" you can switch the source in this order:
HDMI 1, HDMI 2, HDMI 3, OPT, COAX 1, COAX 2, AUX 1, AUX 2, FM (USW radio), AM (MW radio).
- Or you can select the source directly with the source buttons **25** on the remote control.

The selected source is shown in the display panel **17**.

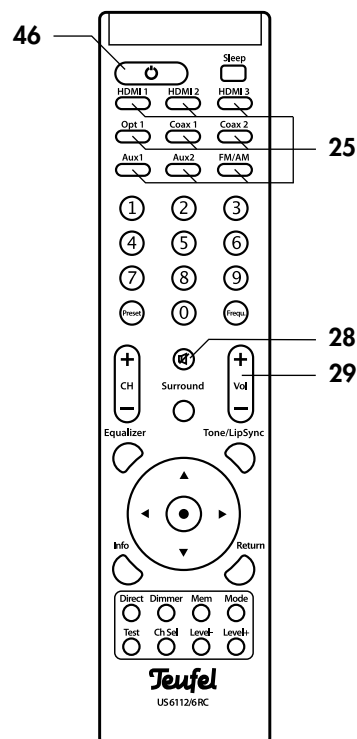
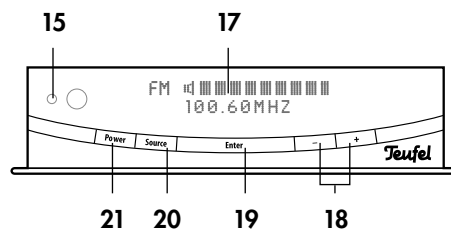
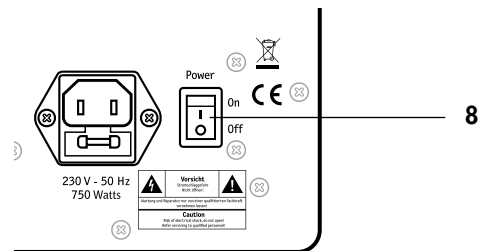
Adjusting the volume

- Increase the volume: Push the button **18** "+" or the button **29** "Vol +".
- Decrease the volume: Push the button **18** "-" or the button **29** "Vol -".

The selected volume in the range from "-69.0 dB" (low) to "10.0 dB" (high) appears in the display panel **17**.

Mute

- Turn off the sound with the button **28** "⏻".
"MUTE" will appear in the display panel **17**.
- Turn the sound back on: Push the button **28** "⏻" again or adjust the volume.



Menu functions

You can set various subwoofer functions via the menu. To use the menu:

- Push the select button **19** "Enter" or **41** "•". The main menu will appear on the connected screen and in the display panel **17**.
- Select the desired sub-menu with the set buttons **18** "+/—" or **31** "▲/▼" and push the select button **19** "Enter" or **41** "•".
- The sub-menu will open and you can select the next sub-menu or change values with the set buttons **18** "+/—" or **31** "▲/▼".
- With the select button **19** "Enter" or **41** "•" you can apply the setting.
- You can terminate or abort the respective function by pushing the button **20** "Source" or **32** "Return" and return to the previous menu.

If the menu appears in German, switch the language to English as follows:

1. Select the item "System Setup".
2. Select the item "D/E".
3. Select the item "English".
The onscreen menu will now switch to English.
4. Push the button **32** "Return" until only the main menu can still be seen.

"Tuner" menu

This menu is only available in radio mode (FM/AM).

Station memory

Here you can switch station memory slots with the set buttons **18** "+/—" or **41** "▲/▼".

Frequency

Here you can set the tuning frequency with the set buttons **18** "+/—" or **41** "▲/▼":

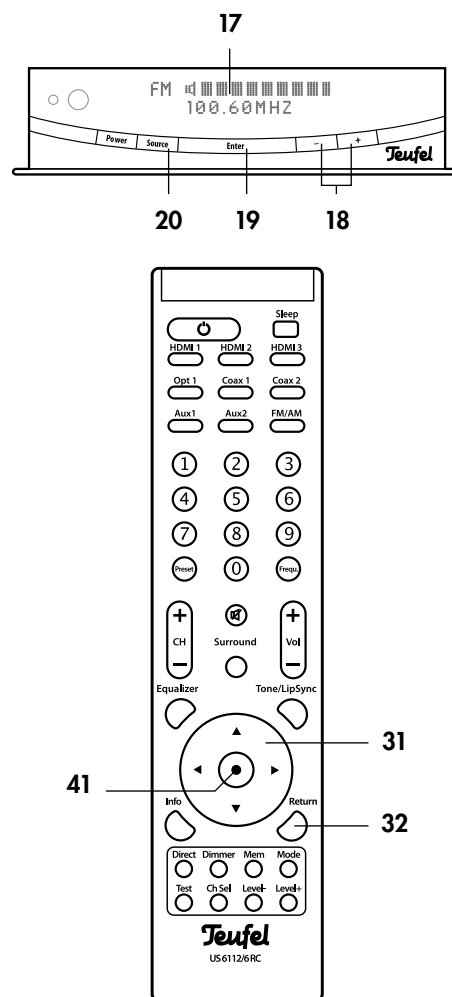
- **Manually:** Every time the button is tipped, the frequency is increased or decreased by one increment (FM: 0.05 MHz, AM: 9 kHz).
- **Automatically:** Holding down the button for a prolonged period of time starts station scanning in the desired direction until a station with sufficiently strong reception power is found.

Program search (APS)

You can activate an automated station search by pressing down the Mem button **34** for a few seconds. Respond to the query "Auto tuning OK?" by pushing the select button **19** "Enter" or **41** "•". The device will automatically save the first 30 stations on FM or the first 10 stations on AM. All previous memory slots will be deleted in this process.

Erasing memory slots

You can erase specific station memory slots this way: Push the select button **19** "Enter" or **41** "•" to clear or the button **20** "Source" or **32** "Return" to cancel.



“Surround” menu

Switch surround mode for 2 channel sources with the set buttons **18** “+/-” or **41** “▲/▼” in the following order:

2.1 Stereo	Stereo only via front left/right and Subwoofer
5.1 Stereo	Stereo across all channels (upmix)
Dolby PLII Movie	Dolby ProLogic II for movies
Dolby PLII Music	Dolby ProLogic II for music
DTS NEO:6 Music	DTS NEO:6 for music
DTS NEO:6 Cinema	DTS NEO:6 for movies

Some options may not be available if not all satellite speakers are connected.

Dolby Digital and DTS (standard and HD)

Surround mode is required for playing back Dolby Digital or DTS-encoded multichannel tracks so that this button is disabled in the process.

“Sound control” menu

Mode

Dynamic comp.

Dynamic compensation regulates volume differences between individual tracks on CDs or other digital audio sources and ensures that playback is neither too loud nor too quiet. Possible settings: On, Off.

Cinema EQ

This function reduces the percentage of high tones from the original movie sound mix to perfectly adapt the sound to the acoustics of a living room. Possible setting: On or Off.

Sound

Here you can set the sound (high tones and bass tones). Possible values: from -10 dB (decrease) to +10 dB (increase).

Equalizer

This provides you with very fine sound control in nine frequency ranges. You can set all channels in unison or each channel separately (the two rear channels are only available in 7.1 mode.) Possible values: each from -20 dB (decrease) to +6 dB (increase).

The “Reset” menu item resets all frequency ranges for the selected channel to zero (neutral).

Note: The equaliser is inactive for some high definition formats.

“Level adjustment” menu

Here you can adjust the relative volume from “-10” (decrease) to “+10” (increase) for each speaker.

“Source level” menu

You can adjust the relative volume from “-10” (decrease) to “+10” (increase) for each audio source here.

“Audio assignment” menu

Here you can define an audio input for each of the three HDMI inputs.

Example: If you would like to connect a PC without HDMI output. With a DVI to HDMI adapter, you transmit the video signal while the audio signal is present at one of the analogue inputs (Aux) via an RCA cable.

“LS configuration” menu

Lip Sync

Digital image processing in the television set requires some time. In order to keep the image and sound synchronous, television sets delay the sound by a few milliseconds. Here you can set an audio delay of 0 to 100 ms for each of the HDMI and the other inputs for synchronous subwoofer sound.

Crossover Frequency

This menu item offers numerous possibilities for adjusting to the satellites.

Frequency

Here, you can select the values 80 Hz, 100 Hz, 120 Hz, 150 Hz, 180 Hz, 200 Hz, 220 Hz and 250 Hz, each with selectable slope steepness for the subwoofer low-pass filter (-24 dB or -36 dB per octave).

The 24-dB filter is suitable for closed satellite speaker cases without additional internal high-pass filter.

Select the 36-dB filter for satellite speakers with bass-reflex enclosure or internal 12-dB high-pass filter.

You can get more information about recommended crossover frequency settings for the satellite speakers in our web shop under the technical data section or in the instruction manual of the speaker.

Following general rule applies here too: Do some experimentation based on our recommendations to find the audio settings that are ideal for you.

Phase Sub

This activates and deactivates the phase shift (180°) for the subwoofer. Select the setting, with which the subwoofer produces the loudest and clearest sound.

Distance

The surround sound effect may be disrupted if the speakers are positioned at different distances to the listening position. To compensate for these differences in run time, you can set a slight signal delay for all channels. Measure the difference from the listening position to the speakers and enter these values in the menu.

"System configuration" menu

HDMI

CEC (Consumer Electronics Control)

If this function is activated (ON), CEC-compatible devices are powered up and down by a control command via the HDMI connection.

ARC (Audio Return Channel)

With a HDMI connection this channel offers a return channel for audio data from television sets that support this function. This allows the audio signal to be transmitted from the television set to the subwoofer's amplifier without having to connect another cable. With the ARC function activated, select the television audio with the button **25** Coax 1.

Possible settings: OFF, ON.



Important!

Please note that many television sets only have one HDMI input that supports the ARC function. An activated CEC function is required for the ARC function.

Note: When the CEC-Function is activated, standby power consumption is increased.

Standby mode

You can activate automatic activation and deactivation with this:

Auto On	The subwoofer turns on as soon as an audio signal is detected at the analogue input "Aux 1". "Aux 1" is automatically selected as an active source in the process.
Auto On/Off	Same as above, but the subwoofer switches to standby once no signal has been present at the "Aux 1" input for a few minutes.
Off	Automatic activation/deactivation is not activated.

Activation level

Here you can set the volume of your device when it is turned on:

- last: The last volume set when powered off.
- fixed: You set the volume from -70 dB (low) to +10 dB (very loud).

5.1/7.1

This allows you to switch between 5.1 and 7.1 mode and set the function of the analogue output **11** "RC/Pre Out" (also see "Analogue audio output" on page 10), which you can connect to a stereo amplifier, active speakers or a wireless transmission system. This makes it possible to project sound into another room or to connect to the rear speakers in 5.1/7.1 mode with a wireless transmission system (such as the Teufel RearStation 4).

5.1+2ch	Convert the 5.1 audio signal to two stereo channels (2.0); volume is adjusted according to master level.
5.1+2ch fix	Same as before, but without volume adjustment.
5.1+Surr	5.1 mode with emission of the effect channels (surround).
7.1	7.1 mode with emission of the rear channels (rear).

D/E

You can set the screen menu language this way. Possible values: German, English

System Reset

This resets the device to the factory default.

Special function buttons

Surround

With the button **44** "Mode" you can cycle through the surround modes in this order:

2.1 Stereo	Stereo only via front left/right and Subwoofer
5.1 Stereo	Stereo across all channels (upmix)
PLII Movie	Dolby ProLogic II for movies
PLII Music	Dolby ProLogic II for music
DTS NEO:6 Music	DTS NEO:6 for music
DTS NEO:6 Cinema	DTS NEO:6 for movies

Dolby Digital and DTS (standard and HD)

Surround mode is fixed for playback of Dolby Digital or DTS-encoded multichannel tracks; thus this menu is disabled for such audio streams.

Test tone

With this function you can monitor and set the level for the speaker channels.

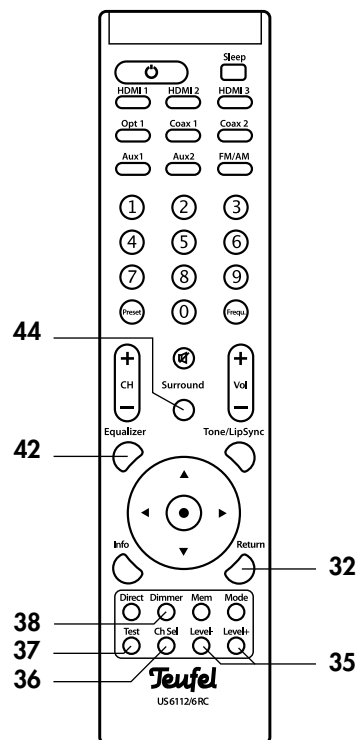
- Push the button **37** "Test". A test sound ("pink noise") will be emitted on all speakers one after another.
- Using the set buttons **35** "+/-" you can set the volume of the channel, which is currently active, from "-10" to "+10".
- Push the button **32** "Return" to stop the test sound.

We recommend using a Teufel sound-level meter, which you can order on our website in the accessories section.

Channel level buttons

Here you can increase and decrease the relative volume for each speaker, even during playback.

- Select the desired speaker by tipping the button **36** "Ch Sel" repeatedly.
Sub – Subwoofer
Left – Front left
Right – Front right
Center – Center
Sur. L – Surround left
Sur. R – Surround right
Rear L – Rear left
Rear R – Rear right
- You can now set the relative volume from "-10" to "+10" with the set buttons **35** "Level +/-".
- Push the button **32** "Return" to terminate the function.



Dimmer

You can adjust the brightness of the display panel with the button **38** "Dimmer". The display brightness is adjusted every time you push the button: bright, medium, dark, off.

Equalizer

As with the menu function (see page 16), this provides you with ultra fine sound adjustment in nine frequency ranges.

Possible values: each from -20 dB (decrease) to +6 dB (increase).

- Push the button **42** "Equalizer".
- Select the desired channel by pushing the button **42** "Equalizer" several times or by using the navigation buttons **31** "▲/▼".
- Push the button **41** "•".
- Select the desired frequency with the navigation buttons **31** "◀/▶" and set the level from -20 dB (decrease) to -20 dB (increase) with the buttons **31** "▲/▼".
- Push the button **32** "Return" to exit the setting.

Note: The equaliser is inactive with some high-definition formats.

Tone/LipSync

You can set the sound and the audio delay with the button **30** "Tone/LipSync".

Adjusting the sound

By briefly tipping the button **30** "Tone/LipSync" you can access the two sound adjustment areas in sequence: Bass (low tones), Treble (high tones)

- You can now set the selected range from -10 dB to +10 dB with the navigation buttons **31** "▲/▼".
- Push the button **32** "Return" to exit the setting.

Setting audio delay

Pushing and holding the button **30** "Tone/LipSync" for more than one second allows you to set the value for the audio delay (see the "Lip Sync" menu function on page 16) for the active input:

- The current value in milliseconds (ms) is shown in the display panel and on the screen.
- With the buttons **31** "▲/▼" set the audio delay from 0 to 100 ms.
- Push the button **32** "Return" to exit the setting.

Direct

In direct mode, the audio signal is emitted without sound adjustment.

- Briefly pushing the button **39** "Direct" displays the current setting:

Direct OFF – Normal mode with sound adjustment

Direct Mode – Direct mode without sound adjustment

- Tipping the button **39** "Direct" again switches the mode.

Info

Pushing the button **40** "Info" displays information on the current audio signal on the screen and in the display panel for approx. three seconds, e.g. "48KHz 2.1 Stereo".

Sleep

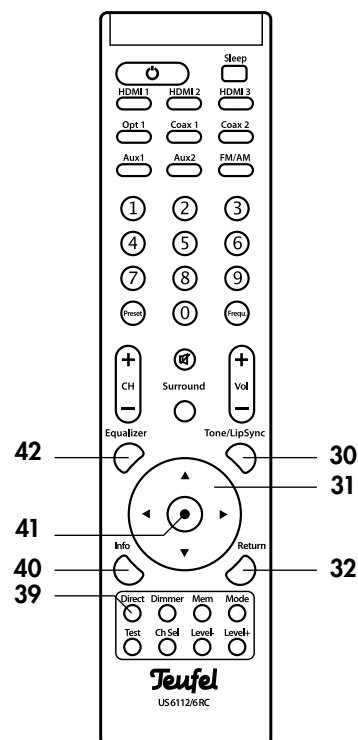
You want to fall asleep in your comfortable home cinema? This automatic sleep function will help by turning the subwoofer off after a preset time (max. 60 minutes).

- Push the button **24** "Sleep" briefly to display the sleep mode status:

"Sleep Mode OFF" – Function disabled.

"Timing xxmin" – Will be deactivated in xx minutes.

- With the navigation buttons **31** "▲/▼", select the desired time for activating sleep mode from 15 to 60 minutes.
- Push the button **32** "Return" to exit the setting. The system will power down automatically after the preset time has elapsed.



Radio playback

Select one of the two radio reception ranges as a source (see page 14):

FM – Reception of mono and stereo stations from 87.5 to 108 MHz, RDS mode possible.

AM – Reception of mono stations from 522 to 1.629 kHz.

Setting the radio stations

Direct entry of the tuning frequency:

- Push the button **27** "Frequ." so that the tuning frequency appears in the display panel.
- Enter the frequency without any decimal or comma using the number buttons **26** "1 ... 0".
- Push the select button **41** "•".

Station search:

- Tip the button **27** "Frequ." so that the tuning frequency appears in the display panel.
- Set the tuning frequency with the navigation buttons **31** "◀/▶".

Manually: Every time the button is tipped, the frequency is increased or decreased by one increment (FM: 0.05 MHz, AM: 9 kHz).

Automatically: Holding down the button for a prolonged period of time starts station scanning in the desired direction until a station with sufficiently strong transmitting power is found.

The set frequency is displayed in the display panel. If the station is received in stereo, the indicator "⎑" will also appear. If the station transmits an RDS signal, the frequency and the name of the station will alternate on the display panel after a short time.

Stereo/Mono

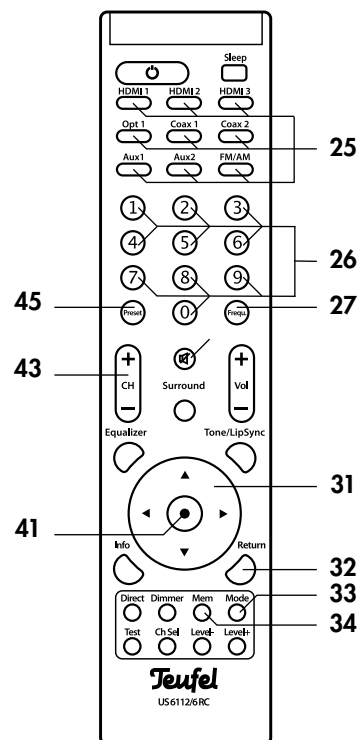
Bothersome interference may occur for weak stereo stations in the FM area. If this occurs, you can switch between mono and stereo reception with the button **33** "Mode".

Station memory

The device can save 30 FM stations and 10 AM stations. You can conveniently select the saved stations with the push of a button.

Saving stations manually

- Set the desired station as described above.
- Push the button **34** "Mem".
The question "Store in P xx" will appear in the display panel.
- With the number buttons **26** "0 ... 1", enter the desired memory slot number or select the desired number with the navigation buttons **31** "◀/▶".
- Push the select button **41** "•".
- If the memory slot is already occupied, the question "Overwrite?" will appear.
If you want to select another memory slot, push the button **32** "Return" and start from the beginning.



- Push the select button **41** "•" to save. The notice "OK" will appear on the display panel briefly.

The station has now been stored. The device will return to normal operation after five seconds of button inactivity.

Saving stations automatically

- Set the desired reception range (FM or AM).
- Push and hold the button **34** "Mem" for approx. three seconds.

The question "Auto tuning OK?" will appear on the screen and in the display panel.

- Push the button **32** "Return" to cancel.
 - Push the button **41** "•" to continue.
- The device will automatically save the first 30 stations for FM and 10 stations for AM. All previous memory slots will be deleted in the process.

Selecting stations from the memory

You can select the occupied stations one after another with the buttons **43** "CH +/-".

Entry of the station memory slot number:

- Push the button **31** "Preset".
The number of the last memory slot used will appear in the display panel, e.g. "P03".
- Enter the number of the desired memory slot with the number buttons **26** "1 ... 0".
- Push the select button **41** "•".

Clearing station memory slots

- Access the station memory slot to be cleared (see previous paragraph).
- Briefly push the button **34** "Mem".
The question "Erase P xx?" will appear on the screen and in the display panel.
- Push the button **32** "Return" to cancel.
- Push the button **41** "•" to delete.

Care and cleaning

Clean the subwoofer and the control panel regularly with a soft, damp microfiber cloth. When doing so, please be absolutely sure to observe the following instructions:

Danger Risk of electric shock!



In contact with live parts, water can lead to electric shock or short circuit.

- Make sure that no liquid penetrates the unit.
- Disconnect the mains plug before cleaning.

Attention Risk of damage!

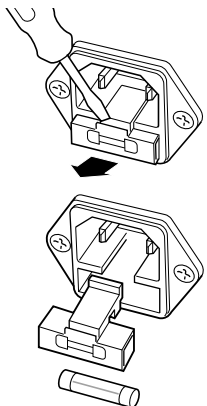


Using the wrong cleaning materials may damage the delicate surface of the case.

- If possible, only use plain water without any additives. In case of stubborn marks, a mild soap solution may be used.
- In no circumstances should caustic cleaning products, white spirit, thinners, petrol or similar be used for cleaning.

Troubleshooting

The following advice should help you to solve problems. If this doesn't work, please contact our hotline (see page 3). Take note of the warranty instructions.

Problem	Possible cause	Solution
The subwoofer doesn't work, the power LED 15 or the display panel are not illuminated.	The subwoofer is off or doesn't have any power.	Turn the switch 8 on ("On I"). Check the power cord and socket.
	Fuse is defective.	Replace the fuse: disconnect the power cord. Carefully pull out the fuse holder 9 on the mains connection jack 7 . Push the old fuse down and out. If necessary, insert a new fuse (5 A, delayed action) and close the holder. 
The subwoofer is not working, but the display panel is on.	The volume has been set too low.	Increase the volume by pushing the button 18 "+" or 29 "Vol +".
The subwoofer hums.	The subwoofer is connected to another circuit than the rest of the system.	Connect the subwoofer and source device to the same electric circuit.
	The buzzing is caused by problems with the power supply.	Buy a line filter and connect both devices to it.
	The buzzing is caused by a multi-way socket.	Use another multi-outlet power strip or connect the subwoofer directly to the wall socket. It may also help to insert the power plug the other way around.
The playback has interference.	Generally speaking, this is a very low-noise system. The system with exceptional resolution in the high-range area can expose the poor quality of a signal source (e.g. from MP3 files) mostly.	Ensure that the source is sending a clear signal.
The sound seems dull.	Satellites have been connected with incorrect poling.	Make sure the speaker cables of all satellites are connected properly.
	LS configuration is not correct	Set the correct crossover frequency for your satellite speakers and turn the menu item "Phase" on and off for test purposes. Select the setting with the best sound (see page 17).

Protecting the environment

Disposing of the unit



Used units must not be disposed of with household waste.

If the unit is no longer operational, every consumer is required by law to dispose of used devices separately from household waste, e.g. at a collection point run by the communal authority or borough. In this way it is ensured, that used devices are properly recycled and that negative consequences on the environment are avoided.

For this reason, electrical equipment is labelled with the displayed symbol.

Batteries and rechargeable batteries



Batteries and rechargeable batteries must not be disposed of with household waste!

Every consumer is required by law to bring all batteries and rechargeable batteries, whether they contain harmful substances*) or not, to a collection point run by the communal authority or borough or run commercially, so that they can be disposed of in an environmentally friendly manner.

Please only hand in fully discharged batteries and rechargeable batteries!

*) labelled with: Cd = Cadmium, Hg = Mercury, Pb = Lead

Technical data

Operating voltage:	230 V~, 50/60 Hz
Power consumption:	Operation: max. 750 watts Standby mode: < 1 watt
Dimensions (W x H x D):	37 x 68 x 37 cm
Net weight:	21.4 kg



This product conforms with Council of the European Union guidelines 2004/108/EC and 2006/95/EC.

Technical changes reserved!

Teufel

For questions, suggestions or other issues please contact our customer service department:

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