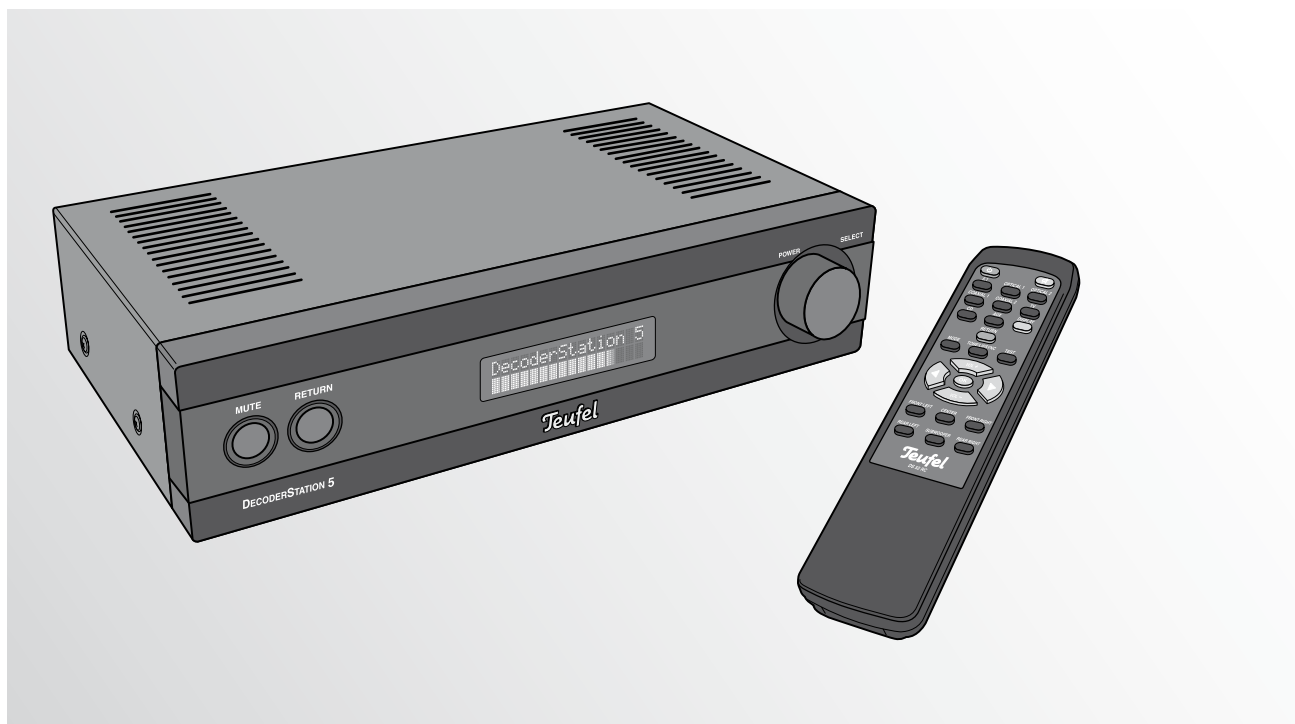


## Technical Description and Operating Instructions



# DecoderStation 5

Controller/Preamplifier/  
Surround Decoder

**Teufel**

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## General notes and information

### Notice

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Version 1.0  
February 2013

### Trademarks

© All trademarks are the property of their respective owners.



Manufactured under licence from Dolby Laboratories.  
"Dolby", "Pro Logic" and the double D symbol are trademarks of Dolby Laboratories.



### Digital Surround | Neo:6

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS Digital Surround | Neo:6 is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

### 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 a device 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: DE00702012040A-123.

Many thanks for your support!

### Contact

For questions, suggestions or any 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](mailto:service@teufelaudio.com)**

**[www.teufelaudio.com](http://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 to 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!**

Deficient electrical installation or excessive grid voltage may result in an electrical shock.

- The AC wall adapter is suitable for use with a power supply voltage of 100–240V ~ / 50/60Hz.
  - Only use the enclosed mains adapter. When connecting, make sure that the right voltage is present. More detailed information is available directly on the mains adapter.
  - Immediately disconnect the AC wall adapter and discontinue using it, if the device emits smoke, you notice burning odour, unusual noises, if the case or the mains adapter is defective or exhibits visible damages.
  - The On/Off switch does not fully disconnect the device from the main supply. Thus, you should set the device such a way that the AC wall adapter can easily be reached.
  - Never open the case of the unit or mains adapter. 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. There are electrical and mechanical parts in this unit which are essential in order to avoid exposure to sources of danger.
  - 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 of liquid on or near the unit in order to avoid liquid getting into the case or the mains adapter. If water or other external objects penetrate the housing, immediately disconnect the AC adapter plug. Then send the device in to our service address.
  - Never touch the mains adapter 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 unit unmounted in vehicles, in unstable locations, on wobbly tripods or furniture, on underdimensioned brackets etc. The device could tip or fall down and cause injury to persons or be damaged itself.
  - Arrange the device so that it cannot be knocked over accidentally and make sure that the cables do not pose a trip hazard.
  - 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 the mains adapter from the power socket.
- 

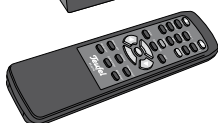
## Overview

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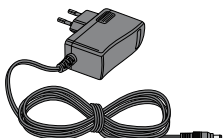
①



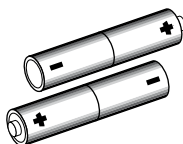
②



③



④



### Product contents

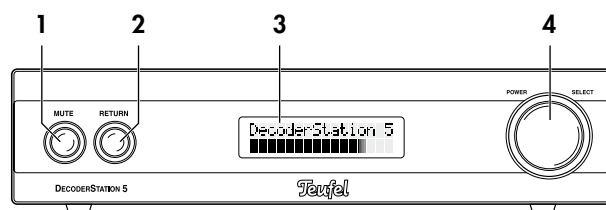
- ① 1 x DecoderStation 5
- ② 1 x remote control (DS 52 RC)
- ③ 1 x mains adapter
- ④ 2 x battery for remote control

### 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).

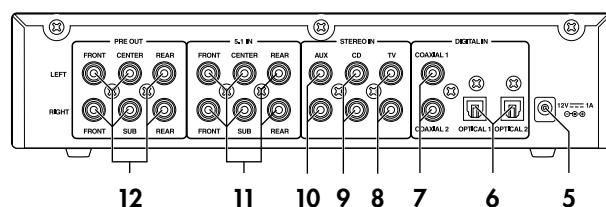
## Control elements and connections

### Front side



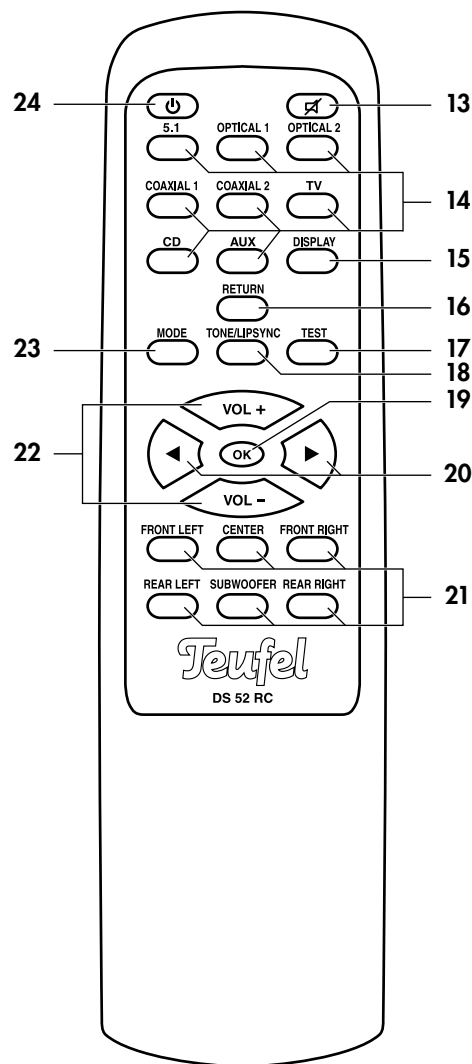
| Pos | Name                | Description                        |
|-----|---------------------|------------------------------------|
| 1   | <b>MUTE</b>         | Mute                               |
| 2   | <b>RETURN</b>       | Return button                      |
| 3   | –                   | Display panel                      |
| 4   | <b>POWER/SELECT</b> | Control dial/Activation pushbutton |

### Back side



| Pos | Name               | Description                                  |
|-----|--------------------|--|
| 5   | <b>12V</b>         | Connector jack for mains adapter ③           |
| 6   | <b>OPTICAL 1/2</b> | Digital audio input jacks for optical cables |
| 7   | <b>COAXIAL 1/2</b> | Digital audio input jacks for coaxial cables |
| 8   | <b>TV</b>          | Analogue audio input jacks for television    |
| 9   | <b>CD</b>          | Analogue audio input jacks for CD player     |
| 10  | <b>AUX</b>         | Analogue input jacks                         |
| 11  | <b>5.1 IN</b>      | 5.1 audio input jacks                        |
| 12  | <b>PRE OUT</b>     | 5.1 audio output jacks                       |

Remote control



| Pos | Name   | Description                                      |
|-----|--|--|
| 13  | ⏻  | Mute speaker                                     |
| 14  | OPTICAL 1/2,<br>COAXIAL 1/2,<br>TV, CD, AUX,<br>5.1                              | Input selection                                  |
| 15  | DISPLAY  | Activate/deactivate display<br>panel 3           |
| 16  | RETURN   | Return button                                    |
| 17  | TEST   | Activate/deactivate test sound                   |
| 18  | TONE/<br>LIPSYNC   | Tone control or sound delay                      |
| 19  | OK   | Select button                                    |
| 20  | ◀▶   | Navigation buttons                               |
| 21  | FRONT LEFT,<br>CENTER,<br>FRONT RIGHT,<br>REAR LEFT,<br>SUBWOOFER,<br>REAR RIGHT | Channel select for level adjust-<br>ment         |
| 22  | VOL +/-  | Volume adjust                                    |
| 23  | MODE   | Surround mode selection                          |
| 24  | ⏻  | Power: Turn DecoderStation 5 on<br>or to standby |

## Setup

### Location tips

- Select a stable, level base.
- Make sure that the environment is clean and dust free.
- Avoid placing the unit close to sources of heat or in direct sunlight.
- Do not place any heavy objects on the DecoderStation 5 or the cables.

The signal receiver for the remote control is located at the front of the unit. Therefore, you should set up the unit in such a way that you have a direct line of sight.

## Remote control

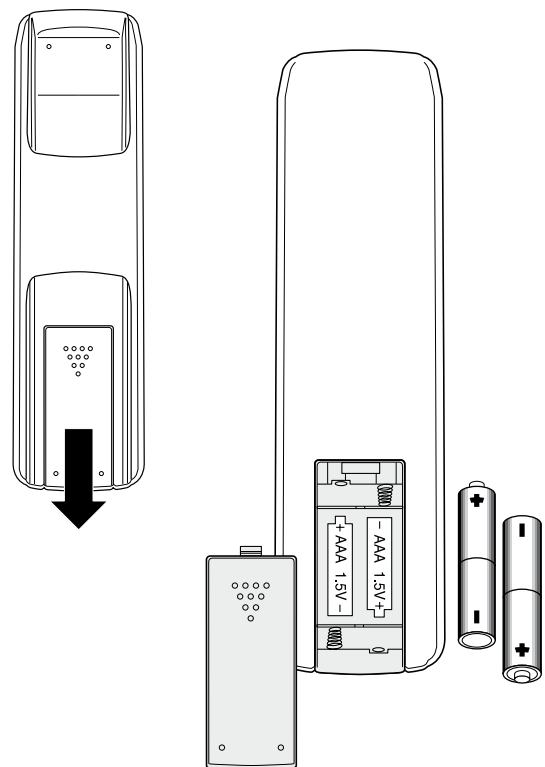
To operate the remote control, you will need two type AAA 1.5 Volt micro batteries (included in the product contents).

### Inserting batteries

- Gently press down 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 15).
- 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 transfers the control signals by means of infrared light. For this, you will have to point the remote control at the DecoderStation 5. The infrared receiver is located on the front side. Make sure that the infrared light is not obstructed by objects.





## Connecting

### **Danger** Danger of injury/damage!



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

## Inputs for source devices

The DecoderStation 5 offers you an analogue 5.1 audio input, two optical and two coaxial digital audio inputs and three analogue stereo audio inputs (TV, CD and AUX).

### 5.1 IN

You can connect a source device with an analogue 5.1 signal to the **jacks 11** (e.g. a PC sound card). You will need three stereo RCA cables to do so.

### OPTICAL 1 and OPTICAL 2

You can connect the optical digital audio outputs of two source devices to the **jacks 6**. 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, too.

### Coaxial 1 and Coaxial 2

You can connect the coaxial digital audio outputs of two source devices to the **jacks 7**. You will need a coaxial cable with RCA plugs for this.

### TV, CD and AUX

You can connect source devices with analogue audio to the RCA **jacks 8, 9 and 10** (e.g. MP3 players, cassette and tape recorders). You will need a stereo RCA cable to do this.

Use the PhonoStation 1 to connect a record player, which does not have a line output.

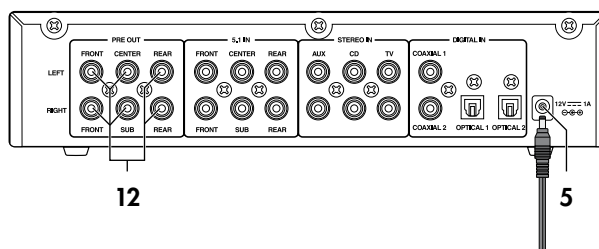
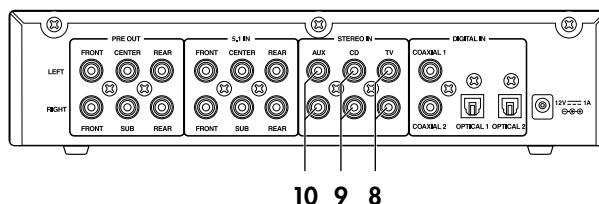
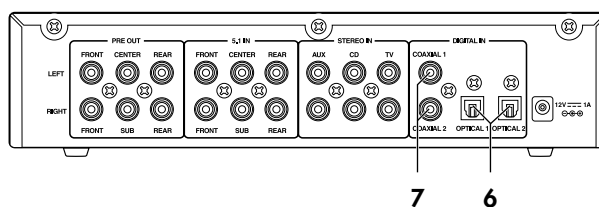
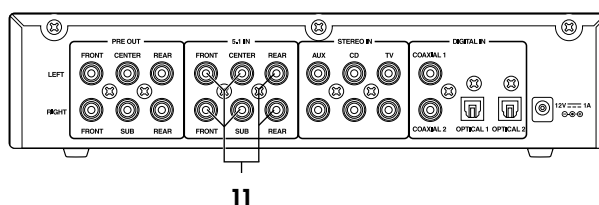
## Audio outputs

Connect your power amplifier, multi-channel active subwoofer or active speaker to the RCA **jacks 12**. You will need three stereo RCA cables for this:

|                  |                           |
|------------------|---------------------------|
| FRONT LEFT/RIGHT | Front left/right channels |
| CENTER           | Mid-channel               |
| SUB              | Subwoofer channel         |
| REAR LEFT/RIGHT  | Rear left/right channels  |

## Connecting to a power supply

- Make sure that your power amplifier, multi-channel active subwoofer or the active speakers are turned off.
- Connect the small plug of the mains adapter ③ to the **jack 5** "12V".
- Connect the mains adapter ③ to a mains socket (100V–240V ~ / 50/60Hz).



## Basic functions

### Activating and deactivating

If the device is in standby mode (standby), the illuminated outside ring of the control dial **4** will light up in a dim blue.

- Briefly pressing the control dial **4** or the button **24** "⏻" will activate the device.

A welcome message will appear in the display panel **3** when the device is turned on.

- Pushing and holding the control dial **4** or briefly pressing the button **24** "⏻" will switch the device back to standby.
- If the device is inactive for a pre-selected period of time, it will automatically switch to standby mode (see "AUTO OFF" on page 12).

### Selecting a source

The device always turns on with the last selected source.

- Select the source directly with the function keys **14** on the remote control.
- Or push the control dial **4** twice briefly and select the source by turning the control dial **4** (also see the "INPUT" menu on the next page).

The selected source is shown in the display panel **3**.

### Adjusting the volume

- Increase the volume: Turn the control dial **4** clockwise or push the button **22** "VOL +".
- Decrease the volume: Turn the control dial **4** counter-clockwise or push the button **22** "VOL -".

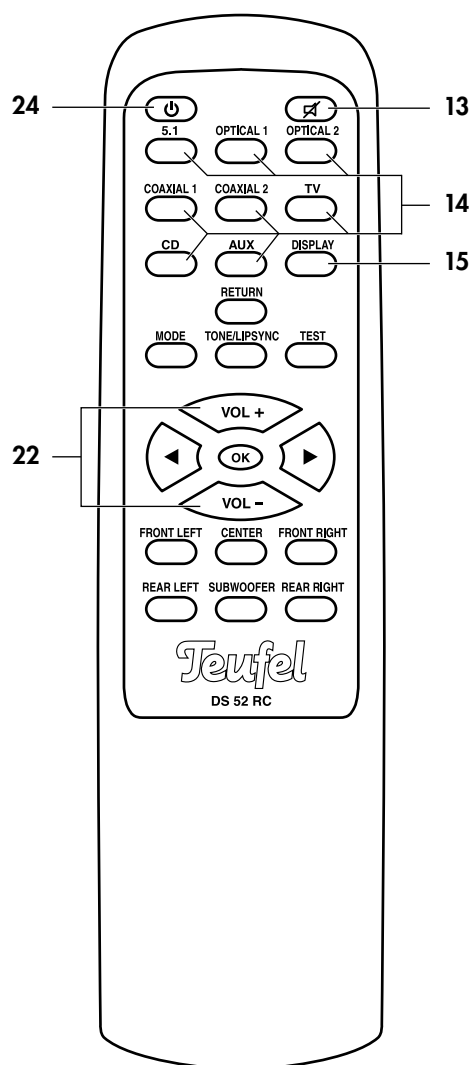
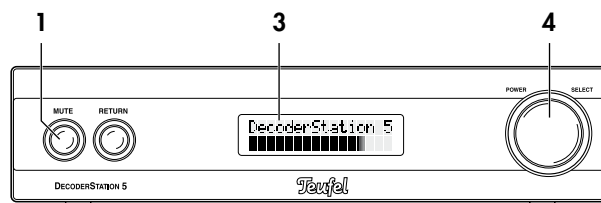
The selected volume will appear as a bar on the display panel **3** and in numbers in the range "-- --" (low) to "10.0 dB" (loud).

### Mute

- Turn the speakers off with the "MUTE" button **1** or **13** "⏻". A "MUTE" message will appear in the display panel **2**.
- Turn the sound back on: Push the "MUTE" button **1** or **13** "⏻" again or change the volume.

### Turning the display panel on/off

You can turn the illumination of the display panel **3** on and off with the button **15** "DISPLAY" so it doesn't distract you, e.g. while watching a movie.



## Menu functions

You can operate all functions of the DecoderStation 5 via the user menu. To use the menu:

- Push the control dial **4** "POWER/SELECT" or the button **19** "OK". The "MAIN MENU" will appear on the display panel **3**.
- Select the desired sub-menu with the control dial **4** or the buttons **20** "◀/▶" and push the control dial **4** or the button **19** "OK".
- The sub-menu will open and you can select the next sub-menu or change the values with the control dial **4** or the buttons **20** "◀/▶".
- You can accept the setting by briefly pushing the control dial **4** or the button **19** "OK".
- With the button **2** or the "RETURN" button **16**, you can terminate the respective function or abort it and return to the previous menu.

### "INPUT" menu

With the control dial **4** or the set buttons **20** "◀/▶", you can select the desired source in the following order: **5.1**, **OPTICAL 1/2**, **COAXIAL 1/2**, **TV**, **CD**, **AUX**.

### "SURROUND" menu

With the control dial **4** or the set buttons **20** "◀/▶", you can switch the surround mode for 2-channel-sources in the following order:

|                         |  |
|-------------------------|--|
| <b>2.1 Stereo</b>       | Stereo only via front left/right and subwoofer |
| <b>5.1 Stereo</b>       | Stereo across all channels (upmix)             |
| <b>Dolby PLII Music</b> | Dolby Pro Logic II Music mode                  |
| <b>Dolby PLII Movie</b> | Dolby Pro Logic II Movie mode                  |
| <b>DTS NEO:6 Music</b>  | DTS NEO:6 for music                            |
| <b>DTS NEO:6 Cinema</b> | DTS NEO:6 for cinema                           |

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

### Dolby Digital and DTS

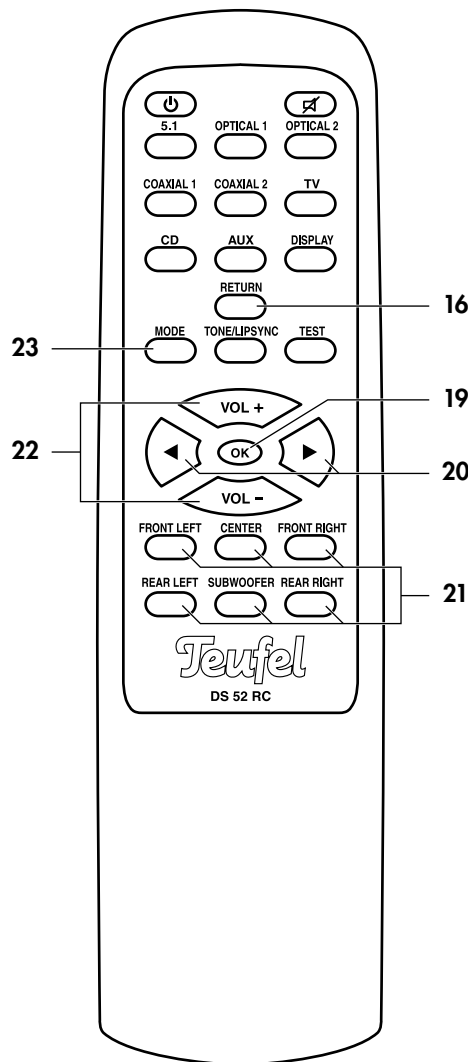
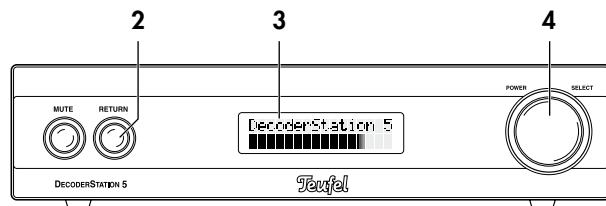
Surround mode is fixed for the playback of Dolby Digital or DTS coded multi-channel tracks. This menu is deactivated as a result. Thus, the Surround mode selection is deactivated while Dolby Digital or DTS 5.1 streams are playing.

Please keep in mind that very few TV channels offer 5.1 audio. Connecting your TV set to the digital input does not necessarily mean that a 5.1 signal is present.

### "TONE CONTROL" menu

#### Treble/Bass

Here you can adjust the sound (treble/high tones and bass tones) using the volume buttons **22** "VOL +/-". Possible values: from -10 dB (decrease) to +10 dB (increase).



### Dynamic Comp.

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

### "LIPSYNC" menu

Digital image processing in the television can take some time. In order to keep the image and sound synchronous, you can delay the sound by a few milliseconds using the LipSync function. Here you can set the audio delay from 0 to 200 ms for synchronous audio.

### "SPEAKER SETUP" menu

#### Levels

Here you can adjust the relative volume from "-10" (decrease) to "+10" (increase) for each speaker individually. It is recommended to use our sound level meter to optimally adjust the sound level.

#### Sub Phase

This allows you to activate and deactivate 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 corrupted 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 each speaker and enter these values in the menu. The system calculates the required delay times for optimal surround sound reproduction.

#### Crossover

If you are using satellites and subwoofers, you will have to select a crossover frequency in the DecoderStation 5. Otherwise, the sound quality will suffer and the satellites could be damaged.

With the crossover frequency, you define the frequency, up to which the subwoofer should be active. Possible values: 80 to 250 Hz in eight steps.

You can find information on the recommended crossover frequency in the technical data of the respective satellite speakers in our webshop.

### Size

You can set the size of the speakers in use here for optimal actuation of the speakers. You can choose from seven configurations:

- LLL** All speakers are large, no subwoofer.
- LLL+Sub** All speakers are large, subwoofer present.
- LSL** Large front and rear speakers, small center speaker, no subwoofer.
- LSL+Sub** Large front and rear speakers, small center speaker, subwoofer present.
- LSS** Large front speakers, small center and rear speakers, no subwoofer.
- LSS+Sub** Large front speakers, small center and rear speakers, subwoofer present.
- SSS+Sub** All speakers are small, subwoofer present.

The letters represent the speakers: Front left/right, center, rear left/right. In this context, S stands for small and L for large speakers. "+Sub" stands for a connected subwoofer.

If you connect the DecoderStation to a multichannel active subwoofer, select the setting **SSS+Sub**.

### Channel Count

Here you can set the speaker configuration (5.1 or 2.1 system). This ensures that the system is able to optimally distribute the audio signal among the speakers.

**2.1 Channel** Only the front speakers on the left/right and subwoofer.

**5.1 Channel** All channels have been assigned speakers.

### "SYSTEM SETUP"

#### AUTO OFF

If inactive, the device switches to standby after a selected amount of time. Possible values: Disable (never), 15 min., 30 min.

#### System Reset

This resets the device to the factory default.

#### FW Version

Here, you can view the firmware version installed on the device.

## Special function buttons

### Surround

You can switch to surround mode in the following order with the "MODE" button **23**:

|                         |  |
|-------------------------|--|
| <b>2.1 Stereo</b>       | Stereo only via front left/right and subwoofer |
| <b>5.1 Stereo</b>       | Stereo across all channels (upmix)             |
| <b>Dolby PLII Music</b> | Dolby Pro Logic II Music mode                  |
| <b>Dolby PLII Movie</b> | Dolby Pro Logic II Movie mode                  |
| <b>DTS NEO:6 Music</b>  | DTS NEO:6 for music                            |
| <b>DTS NEO:6 Cinema</b> | DTS NEO:6 for cinema                           |

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

### Dolby Digital and DTS

When Dolby Digital or DTS-encoded multichannel are played back, this button is disabled.

### Test tone

With this function, you can monitor and set the correct level for each speaker channel.

- Push the "TEST" button **17**. A test sound ("pink noise") will be emitted on each speaker one by one.
- You can adjust the volume of the currently active channel from "-10" to "+10" using the volume buttons **22** "VOL +/-".
- Select the next channel with the navigation buttons **20** "◀/▶".
- To stop the test sound, push the "RETURN" button **16**.

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

### Channel level buttons

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

- Select the desired speaker by pushing the button **21**:  
**Front L.** – Front left  
**Center** – Centre  
**Front R.** – Front right  
**Side L** – Surround left  
**Sub** – Subwoofer  
**Side R** – Surround right
- You can now adjust the relative volume from "-10" to "+10" using the volume buttons **22** "VOL +/-".
- To exit the function, push the "RETURN" button **16**.

### Tone/LipSync

With the "Tone/LIPSYNC" button **18**, you can adjust the sound and audio delay.

### Adjusting the sound

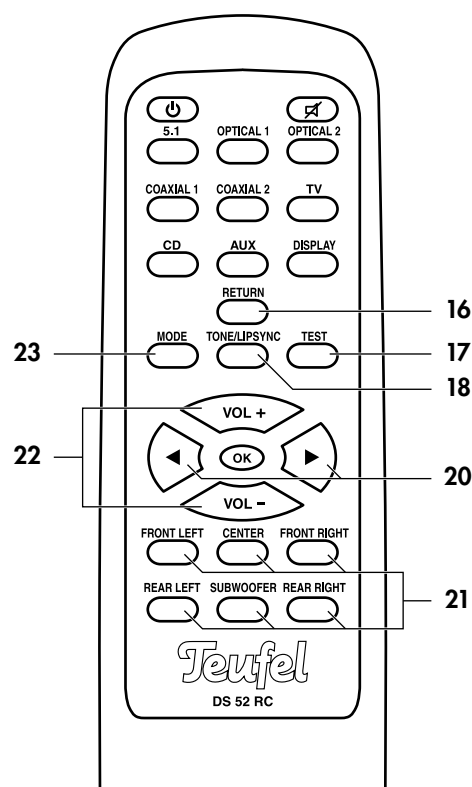
Briefly tap the "TONE/LIPSYNC" button **18** to access two audio control ranges successively: Treble (high tones), bass (low tones, bass tones).

- Now select the range from "-10" (decrease) to "+10" (increase) with the volume buttons **22** "VOL +/-".
- Confirm the setting by pushing the button **16** "RETURN".

### Setting audio delay

Push the button **18** "TONE/LIPSYNC" for more than one second to set the value for audio delay (see the "LIP-SYNC" menu function on page 12):

- The current setting in milliseconds (ms) appears in the display panel.
- Set the audio delay from 0 to 200 ms with the volume buttons **22** "VOL +/-".
- Push the button **16** "RETURN" to confirm the setting.



## Troubleshooting

If you occur problems using this unit, please first refer to the following notes and further detailed **information on our website** for initial help. If this does not lead to success, please contact our hotline 00800 - 200 300 40 (free of charge). Please also observe the warranty notes.

| Problem   | Possible cause  | Solution  |
|---|---|---|
| The DecoderStation 5 is not working, the display panel <b>3</b> does not light up.  | The device has no power.  | Check if the mains adapter plug is connected to the jack <b>5</b> "12V" and to the socket.                |
| The device is not working, but the display panel is illuminated.  | The volume has been set too low.  | Increase the volume with the control dial or "VOL+" button <b>22</b> .                                    |
| Playback is noisy.  | Generally-speaking, the system is very low-noise. 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).  | Make sure that the source is delivering a clear signal.   |
| The rear satellites and/or center speaker do not emit an audio signal from stereo sources such as a tuner or an MP3 player. | MP3s, radio and many television programmes only offer stereo sound.   | Use the remote control to switch the decoder to a Pro Logic II mode or one of the DSP modes (5.1 stereo). |
| You are unable to switch the surround configuration.  | You are probably using a digital input. If a Dolby or DTS signal is received on this input, the DecoderStation 5 will automatically switch to the correct surround configuration.   |   |
| No Dolby-/DTS multi-channel sound is issued via the connected digital source.   | If digital sources are being played, the DecoderStation 5 automatically recognises the format of the signal source. If the decoder fails to play multi-channel sound, there is presumably no multi-channel signal. Digital signal sources do not always transmit multi-channel sound, but may also emit regular stereo sound (2.0). This is often the case, for example, when receiving a television signal with digital receivers.   | Switch the decoder to a Pro Logic II mode or one of the DSP modes (5.1 stereo) using the remote control.  |
| The digitally connected sound card is not transmitting any multi-channel sound when playing computer games.                 | Many soundchips are capable of producing surround sound in real-time and issuing it via the sound card's analogue outputs. However, digital encoding of the calculated multi-channel sound is also necessary in a Dolby Digital bit-stream for transmission via a digital connection. Only if the sound card is capable of real-time encoding and transmission to the decoder, can direct decoding (that is, splitting of the signal into its analogue components) occur.<br><br>Presently, only very few game consoles such as the Microsoft Xbox 360 or the Sony Playstation 3 and a limited number of sound cards with Dolby® Digital Live support are capable of performing real-time encoding. | Connect your 5.1 sound card to an analogue jack of the DecoderStation 5.                                  |

## Protecting the environment

### Disposing of the device



**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 symbol shown above.

### 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 batteries and rechargeable batteries in a fully discharged state!

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

## Care and cleaning

Clean the DecoderStation 5 regularly with a soft, damp microfibre cloth. Please be absolutely sure to observe the following notes:

#### **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 adapter from the socket 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.

## Technical data

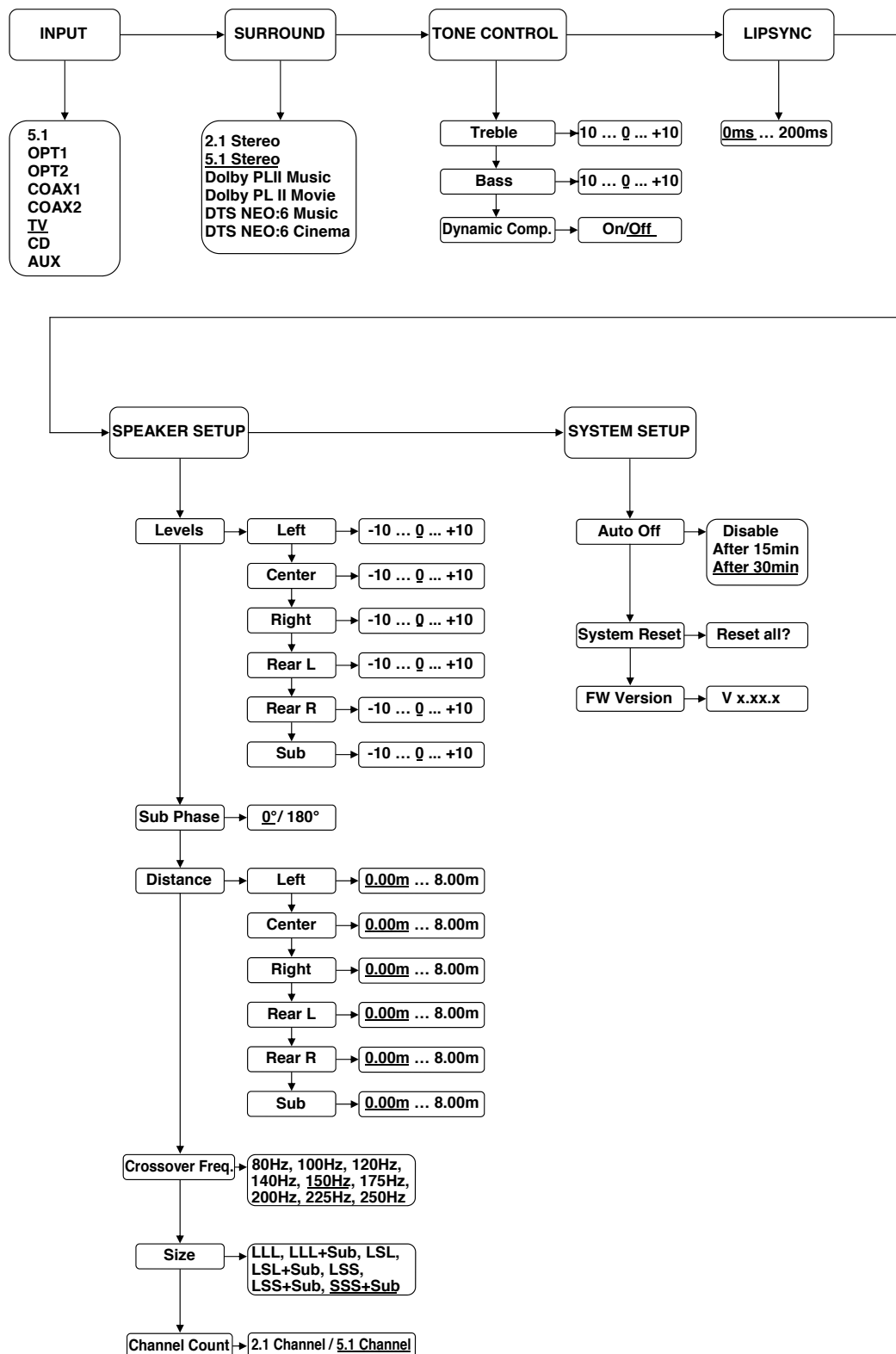
|   |   |
|---|---|
| Operating voltage of the mains adapter: | 100 – 230 V~, 50/60 Hz                                |
| Power consumption:                      | Operation: max. 30 watts<br>Standby mode: < 0.5 watts |
| Dimensions (W x H x D):                 | 235 x 54 x 150 mm                                     |
| Net weight:                             | 1010 g  |



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

Technical changes reserved!

## Menu tree



# Teufel

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

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