



Cinepaq 4400

Teufel



System 4

5.1 Home Theatre Set with Active Subwoofer
5.1 Concert Set · 5.1 Cinema Set

Teufel

About this document

The information in this document is subject to change without warning. Lautsprecher Teufel GmbH is in no way bound by the information provided herein.

No section of this document may be reproduced or copied by any electronic or mechanical means, including photocopying and recording, without prior written consent from Lautsprecher Teufel GmbH.

© Lautsprecher Teufel GmbH
Version 2.4
April 2009

Original packaging

We recommend that you hold on to the packaging of all your new Teufel products, as we only accept loudspeakers back within the initial eight-week return period if they are shipped in their ORIGINAL PACKAGING. We do not provide packaging boxes separately.

If you have any questions, suggestions or criticisms, please contact our support team:
Lautsprecher Teufel GmbH
Gewerbehof Bülowbogen · Bülowstraße 66
10783 Berlin (Germany)
Ph.: +49(30) - 30 09 300
Fax: +49(30) - 30 09 30 30
www.teufel.eu

Terms of warranty

Lautsprecher Teufel GmbH provides a twelve-year warranty for loudspeakers and a two-year warranty for amplifiers and electrical components, starting at the purchase date. The warranty covers all materials and time needed. The warranty does not cover devices damaged as a result of improper use or electrical/mechanical overloading. The original Teufel invoice is your proof of warranty. This warranty applies exclusively to loudspeakers, amplifiers and electronic components purchased by consumers from Teufel for private usage. The warranty does not apply to loudspeakers, amplifiers and electronic components sold to consumers through third-party dealers. For third-party products supplied together with the Teufel system, the terms of warranty of the manufacturer in question apply. When Teufel products are resold privately, the warranty may be transferred to the new owner. For this, the new owner requires the original Teufel invoice.

Returns policy

Teufel provides an eight-week right of return with a money-back guarantee.

You may only return individual components from a set if Teufel offers these components for sale separately. If you return one or more individual components from a set, this voids the discount that Teufel provides on the sale of components as a set. This means that for individually returned components from a set, you will be refunded the difference between the set price and the sum purchase price of the individual components you decide to keep, i.e., we will deduct the discount that applies to set purchases.

For further information on returns, please refer to the returns form provided with your shipment (or online at www.teufel.eu in the support section).

If you decide to return any or all of the purchased goods, please always contact us first.

Note that we can only process and accept returned goods if you have telephoned us in advance and discussed the required returns procedure.

Contents

Contents	Page	3
Safety guidelines	Page	4
Introduction	Page	5
Unpacking · Included components	Page	6
Accessories (optional)	Page	7
Speaker positions in the 5.1 configuration	Page	9
Speaker positions in the 7.1 configuration	Page	11
Connections	Page	12
Settings	Page	13
Controls (subwoofer)	Page	14
Problems and solutions · Cleaning · Technical specifications	Page	15
Glossary	Page	16

Safety guidelines

Please read the following safety guidelines very carefully.

Packaging materials, particularly plastic bags and foils, should be kept out of childrens' reach, as these can be dangerous (e.g., risk of suffocation). Never leave your children alone with electrical devices, as there is potentially always a risk of electrical shock.

In case of an emergency:

Immediately disconnect the unit's power plug from the mains socket. In the following cases, please contact one of our service technicians:

- ▶ Power plug or cable is damaged
- ▶ Liquid or other foreign substances have entered the interior of the unit
- ▶ The unit has been directly exposed to rain or another type of liquid
- ▶ The unit is inoperational even though you have followed all the operating instructions
- ▶ The unit has been dropped or otherwise damaged

Lautsprecher Teufel is not liable for any incidents resulting from disregard for the safety guidelines.

General note: Make sure to read this operating manual carefully and in its entirety. Before plugging in the units for the first time, make sure you have complied with all relevant safety and operating instructions. Keep this operating manual in a safe place so you can refer to it at a later date if necessary.

Always: If in doubt, consult the operating manual. Make sure to comply with all instructions regarding the units' setup and ongoing operation.

Cleaning: Avoid cleaning the units with domestic cleaning agents, as these may scratch the surface. Just use a dry cloth. Before cleaning a unit, always unplug the power cable.

Humidity and sunlight: Never operate the unit in humid or wet spaces, e.g., near a bath tub, shower, wash basin, drain, in a damp basement, or near a swimming pool. Never expose the loudspeaker to humidity, and avoid exposing it to direct sources of sunlight. Do not expose device to dripping or splashing water. Do not place objects filled with liquids, such as vases on the device.

Placement: Never mount the units loosely in a vehicle, on an unstable surface, on a loose stand, on unsuitable furniture, or with insufficient bracing. The loudspeakers could topple and cause personal injuries, which you will be liable for. Especially when speaker cabinets are mounted on stands or placed on top of TV sets/monitors, they may topple due to external stress (cable being pulled, tripping over cable, accidental physical contact) – even if they seem to be mounted quite securely. As a result of their weight, toppling speaker cabinets can cause considerable damage, as well as becoming badly damaged themselves. The same applies to undersized or unprofessionally installed wall-mounting brackets, particularly on light walls. Always use adequately sized wall brackets for mounting loudspeakers, and ensure that the wall can withstand the stress. Never mount the units near a heat source. This could be a heater or oven, but also any other electrical device that heats up during operation (e.g., amplifier). Similarly, never place a heat source on top of the loudspeakers, such as a fan heater or candles.

Ventilation: There are several ventilation slits and openings in the unit's housing. These are designed to ensure reliable operation and protect the unit from overheating. Never block or cover the ventilation slits; do not place the unit on a soft surface such as a bed, couch, carpet, etc., as this blocks the ventilation slits in the bottom of the housing. Do not put any newspapers, tablecloths, etc., on top of the unit. Most importantly, do not cover up the heatsink of the amplifier section or expose it to direct sunlight. Conversely, you should generally not attempt to provide additional cooling to the unit yourself. This is not necessary.

Power source: Make sure to connect the subwoofer to a power source that provides the correct voltage, i.e., the voltage indicated on the type plate. If you are unsure about the voltage provided by your domestic power connection, please contact us or your local electricity provider for advice. The unit does not require earthing. When connecting to the mains power socket, always use the supplied two-pole power cable. Under no circumstances should you modify the power cable, as it must comply with the official polarity and earthing regulations. Make sure to plug the power cable only into a double-pole socket.

Cables: Lay all the cables flush with the floor and walls. Avoid any loops in your cables that could cause people to trip up.

Cable loops can also cause electrical interference and degrade the sound quality. Make sure to lay your power cables out of reach so that they are not stood on or squashed by heavy objects. If you notice any cable damage, replace the cable. Pay special attention to all plug connectors, the mains socket, and the subwoofer's connector panel. Regularly check all powered cables to and from the loudspeakers for insulation issues and breakage. If you detect a fault, immediately power down all connected units, unplug the cables and replace the defective cable.

Disuse: During prolonged periods of disuse (holidays, etc.), always unplug the subwoofer from the mains socket.

Thunderstorms: In the event of a thunderstorm, switch off and unplug the unit as soon as you can in order to avoid damage from lightning strikes.

Overloading: Never overload your wall sockets, extension cables and multiboxes, or the integrated power sockets on your electrical devices. Power overloads can cause short circuits and fires. Also avoid turning up the volume control excessively on your amplifier, particularly if you are also boosting the bass frequencies (bass control, loudness button, bass boost button, etc.).

Liquid and foreign substances: Liquids or other foreign substances should never get inside the unit, as they may interfere with exposed live parts and cause short circuits or fires. Absolutely avoid spilling any type of liquid onto the unit. In case of a fault: Never attempt to repair the unit yourself. Always contact our support team first and discuss the fault with them. If appropriate, they may give you instructions on how to clear the fault. If this is not possible, send the unit directly to our service address.

Transport: Take utmost care when transporting the unit, and use a sack barrow if possible. Be aware that both the sack barrow and the unit can easily fall over as a result of sudden stopping or jolting (uneven ground, lurching movements, etc.).

Replacement parts: During the period of warranty, Lautsprecher Teufel will supply all required replacement parts. Your warranty will not be voided as long as you use Teufel spare parts to replace any defective components.

Unusual noises: If any unusual noises occur during operation, or if the sound gets distorted, immediately turn down the amplifier volume to a level where the sound returns to normal.

Replacing the fuse:

Unplug the power cable before replacing the fuse. Make sure that the replacement fuse has the same rating as the defective fuse.

Speaker volume: Excessive loudspeaker volume can cause irreversible hearing loss. The subwoofer may emit high sound pressure levels very unexpectedly when it is suddenly triggered into activity by a bass impulse ("Standby/Auto On" mode) – particularly if the unit is on full volume. As well as physical hearing loss, also watch out for psychological stress caused by excessive volume. Children and pets are particularly sensitive to noise. Always set the volume control of your audio system to a level that is appropriate to the surroundings. When the system is playing at high volume, do not stand too closely to the subwoofer and never put your ears directly up to any of the loudspeakers.

Introducing System 4

Dear Lautsprecher Teufel customer,

Thank you for purchasing a set of loudspeakers from Lautsprecher Teufel.

You are now the owner of a powerful and sophisticated loudspeaker system. All Teufel products are meticulously manufactured and fitted only with top-quality components. Our System 4 loudspeaker set is designed for audio playback in rooms sized up to 35 m². Before using the loudspeaker set for the first time, carefully read this operating manual. Keep the manual in a safe place for later reference.

If you have any questions, feel free to contact our technicians (ph. +49 (30) 300 9 300), or write an e-mail using the contact form on our website www.teufel.eu. Please provide your order number so that we can identify your purchase and provide the best possible support.

BEFORE you contact us with any questions, make sure to read the "Problems and Solutions" section on page 15. Further answers are provided on the "FAQ/Support" pages of our website (www.teufel.eu).

Please take careful note of the safety guidelines on page 4 of this operating manual. Do not start using the loudspeakers before you have read this page.



Please write down the set's serial number (shown on a sticker on the packaging) and the invoice number here:

My **INVOICE NUMBER** is:

.....

My **SERIAL NUMBER** is:

.....

Should you ever require any customer support from us, please tell us these numbers so we can process your request promptly.

Teufel

Unpacking · Included components

Please make sure that you have all the components of the system!

Attention:
Hold on to the cardboard boxes for at least eight weeks (duration of the right-of-return period). Lautsprecher Teufel will ONLY refund the full purchase price if the speakers are shipped back in their ORIGINAL PACKAGING!

Unpacking

Open the top flaps of the cardboard box, take out the styrofoam padding, and carefully lift the loudspeaker out of the box. If the speaker set is shipped with speaker grilles, attach these now.

We recommend holding on to all the original packaging in case you ever need to ship the speakers back to us for servicing.

System 4 ships as a complete surround loudspeaker system. Two different configurations are available:

5.1 Concert Set · 5.1 Cinema Set

Each set is a different combination of up to three different loudspeaker types:

Included components

5.1 Concert Set:

- ▶ 1 x M 4500 SW subwoofer
- ▶ 5 x M 450 FCR loudspeakers

5.1 Cinema Set:

- ▶ 1 x M 4500 SW subwoofer
- ▶ 3 x M 450 FCR loudspeakers
- ▶ 2 x M 450 D loudspeakers

Accessories

As our customers' setup requirements tend to vary considerably, the system does not ship with any audio cables, wall mounts or speaker stands. However, you can order suitable cables for the speakers and subwoofers directly from us, as well as any required mounts or stands.

All of the accessories available for the System 4 loudspeaker set are described on pages 7 and 8.



◀ M 4500 SW



◀ M 450 FCR



◀ M 450 D

Accessories (optional)

Optional accessories for the System 4 set

Teufel offers the following accessories for your System 4:

System 4 EX set



If you own a 7.1 AV receiver, you can purchase a “5.1 → 7.1” EX set to expand your System 4 loudspeaker setup into a full-blown 7.1 system. The EX set consists of two additional

M 450 FCR speakers, to be mounted centrally between the side rear speakers (see page 11).

Teufel speaker cable 2 x 2.5 mm²



Highly flexible copper core (650 strands) with a transparent sleeve and polarity markings. The 2 x 2.5 mm² cable can be used

for cable distances up to 15 metres. For longer distances, we recommend the thicker 2 x 4 mm² cable. In response to customer demand, all our audio cables are now pre-wired for typical usage lengths.

Teufel speaker cable 2 x 4 mm²



Hundreds of ultra-thin, low-oxygen copper wires (protected by a thick, flexible, transparent plastic sleeve that withstands almost any stress) ensure that your audio signals are passed to the speakers cleanly and without being compromised by underdimensioned cabling.

Teufel NF mono RCA cable



This cable is designed for connecting active subwoofers to AV receivers/amplifiers, and is shielded against magnetic interference. A

reliable connection is guaranteed by sturdy, gold-plated connectors. This cable is available in several different lengths (2.5 to 15 metres) to perfectly match your requirements.

Y adapter



1 x socket to 2 x connector. A Y adapter lets you feed a mono sub signal to both of the subwoofer's stereo inputs; this increases the subwoofer's overall volume.

M 620 P speaker stand (black)



The M 620 P has a black base mount and was designed to aesthetically match the System 4 speakers. The stand's two sleek columns seem to make the speaker float in mid-air. Thanks to the established Teufel speaker mounting method – integrated fittings and packing

screws – the speaker is securely fastened to the stand. At a stand height of 68 cm, the FCR satellite speakers are automatically placed at the proper surround system height.

Please note that this stand is not suitable for the M 450 D satellite speakers – dipole speakers should always be wall-mounted.

Teufel banana plugs



These high-quality, multi-purpose speaker connectors from Teufel are an affordable option to ensure faultless connections between your loudspeakers and amplifier/receiver.

The rugged banana-design screw connector securely holds cables up to 4 mm

in diameter. Low-resistance plug connections are ensured by flexible spring contacts and solid gold plating. Banana plugs are sold in pairs only, marked red and black respectively. The System 4 loudspeaker set requires 10 banana plugs for a 5.1 setup, or 14 for a 7.1 setup.

If you require any optional accessories, you can easily order these directly from the Accessories section of our online store:
www.teufel.eu

Accessories (optional)

Teufel L-Lock wall bracket AC 6500 SM



A versatile wall bracket for mounting speaker cabinets – designed by Teufel. Most Teufel speakers can be mounted very easily using this wall bracket, with no holes needing to be drilled into the cabinets. This mounting bracket is perfect if you need to tilt your M 450 D rear speakers horizontally (e.g., if you are mounting them on the rear wall). The M 450 D cabinets provide a fitting for an M6 packing screw on the cabinet base, which is used for attaching them to wall mounts or speaker stands.

If you require any optional accessories, you can easily order these directly from the Accessories section of our online store: www.teufel.eu

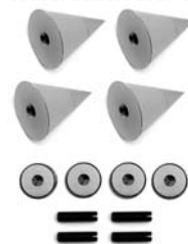
Teufel Multilock wall mount



The design of this new speaker wall mount provides superior flexibility and can carry speakers weighing up to 10 kg. The mounting bracket is fixed with a knurled screw and can be vertically swivelled so that the speaker is perfectly angled towards the listening position. We recommend using the Multilock particularly if you need to mount the M 450 FCR speakers above or below the suggested height (0.40–1.20 metres). As the Teufel speakers are mounted using a packing screw in the bottom of the speaker cabinet, they can also be angled horizontally.

** Note:
When putting together a 7.1 set, you will need four additional banana plugs as well as additional speaker cables on top of the standard Accessory Bundles.*

Teufel subwoofer spikes AC 8534 BA



These four sturdy cones ensure the subwoofer cabinet is decoupled from the floor, which prevents muddy bass resonances. The M 4500 SW already has suitable spike fittings in its base, so you do not need to drill any holes. The spikes are supplied with pad rings to protect your floor.

Teufel Vibrapods – professional resonance eliminators



Teufel Vibrapods are designed to eliminate all unwanted resonant frequencies. Made from a sophisticated high-density rubber which is also used in space travel, these professional resonance eliminators reliably decouple even the heaviest speaker cabinets and subwoofers from vibrating wooden floors and shelves, ensuring tight, unmuddied bass frequencies at all times.

Teufel rollers



Fitted with these compact black rollers, your Teufel subwoofer instantly becomes mobile. With a mobile subwoofer, the trial-and-error setup stage is made quick and easy – particularly on your back! In addition, you can simply wheel the subwoofer out of harm's way when cleaning.

Teufel Accessory Bundles

Have a look at our four Accessory Bundles – these contain a variety of speaker cables, mono RCA cables (subwoofer) and banana plugs at discounted prices. Save up to 15%!*

Accessory Bundle 1

- ▶ 30-metre speaker cable, 2 x 2.5 mm²
- ▶ 1 NF mono RCA cable, 2.5 metres
- ▶ 10 banana plugs

Accessory Bundle 2

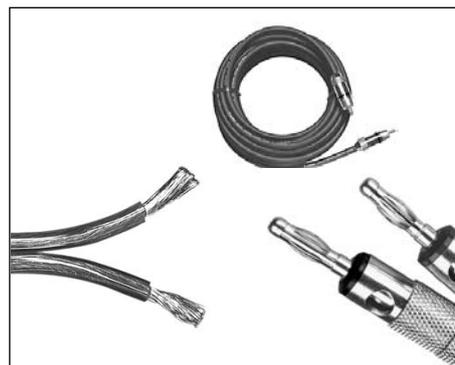
- ▶ 30-metre speaker cable, 2 x 2.5 mm²
- ▶ 1 NF mono RCA cable, 5 metres
- ▶ 10 banana plugs

Accessory Bundle 3

- ▶ 30-metre + 20-metre speaker cable, 2 x 2.5 mm²
- ▶ 1 NF mono RCA cable, 5 metres
- ▶ 10 banana plugs

Accessory Bundle 4

- ▶ 30-metre speaker cable, 2 x 4 mm²
- ▶ 1 NF mono RCA cable, 2.5 metres
- ▶ 10 banana plugs



Speaker positions in the 5.1 configuration

General notes on speaker placement

Thanks to its unobtrusive design, the Teufel System 4 loudspeaker set will easily blend into your living room. In order to get the best possible audio quality from your Teufel system, however, there are a number of speaker placement rules to consider; these apply particularly to home theatre use.

As a general guideline, any home theatre system should be concentrated around the viewing area, i.e., that part of the room that contains the TV/screen and the main seating spots. If at all possible, the TV/screen should be placed centrally in relation to the viewing/listening spots.

Our speaker placement suggestions, shown over the next pages, are designed for the best possible multi-channel sound reproduction in your home. In the reality of your living room, of course, there may be factors working against the suggested placements. While our recommendations represent the audio purist's optimum layout, modern AV receivers also offer a number of options to electronically compensate for compromises in speaker placement. Always remember: Our recommendations are not the be-all-and-end-all but a starting point. Ultimately, you will know best what works in your room, both visually and sonically. Trust your eyes – and your ears!

Centre

The centre speaker reproduces virtually all spoken sound, including most dialogue. In relation to the main listening spot, place it centrally under or above the TV/screen. If you need to position the centre speaker (M 450 FCR) lower than 40 cm or higher than 1.20 m, angle it horizontally towards the listening spot.

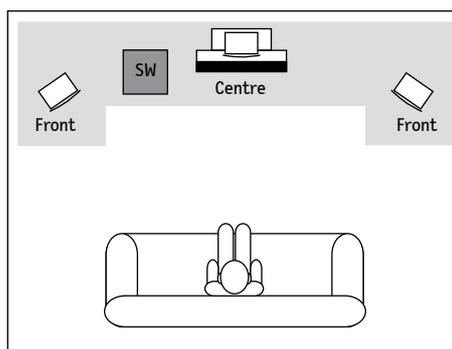
Front

The front speakers should be positioned the same way as any conventional stereo speakers – forming an equilateral triangle with the listener. In a home theatre setup, the left and right front speakers should be equidistant to the TV/screen, mounted on the wall or on speaker stands. The Teufel M 450 FCR satellite speakers can be mounted using Teufel's Multilock or L-Lock angle bracket. The speaker cabinet has an M6 packing

screw in its base to fasten the cabinet to a wall mount. This packing screw is also used to fasten the speaker to the speaker stand. The recommended speaker stand model for this set is the M 620 P. Speaker stands ensure that the satellite speakers are placed at the best possible height. If you mount the speakers on the wall or on a bookshelf, make sure the speaker height is between 40 cm and 1.20 m. If these recommended values are not practical in your listening environment and you need to position the speakers higher or lower, you should angle them towards the listening spot. Teufel's Multilock wall mounts are designed for just this purpose.

Finally, make sure that the centre speaker and the two front speakers are positioned in a straight line, or on a slight arc with the TV/screen. If the distances between you and the speakers vary significantly, this will degrade the audio signal's spatial imaging.

Make sure to align your speakers properly so they sound as good as possible.



We recommend you place the subwoofer somewhere in the grey front area.

Subwoofer

At the recommended crossover frequency of 100 Hz, the subwoofer can be positioned in the room very flexibly without affecting the output from the other loudspeakers. The ideal position is somewhere along the axis between the two front speakers, but you should feel free to experiment with placing it anywhere you like. Simply make sure that the front of the subwoofer (with the speaker grille) can radiate freely towards the centre of the room, i.e., it is not pointed directly at a wall. If this cannot be avoided, make sure the subwoofer is at least 0.50 m away from the wall.

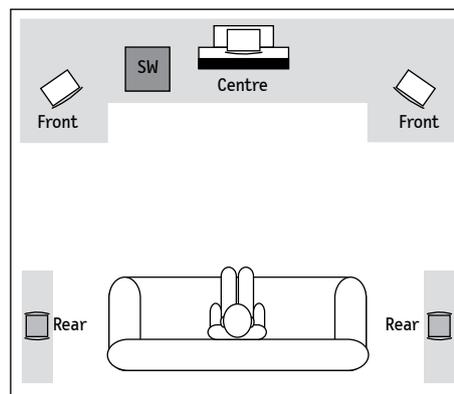
Speaker positions in the 5.1 configuration

Rear/side speaker placement option A

Cinema Set

The M 450 D dipole speakers should ideally be mounted to the sides of the listening spot, at a height of 1.40–2.10 m. The M 620 D speakers ship with a simple integrated wall mount. With this placement option, the dipole rear speakers radiate towards the TV/screen out the front (front panel with Teufel logo) and towards the rear wall out the back of the speaker cabinet. The distance between the rear-radiating side of the dipole speaker and the room's rear wall should be at least 10 cm.

We recommend you place the subwoofer somewhere in the grey front area.

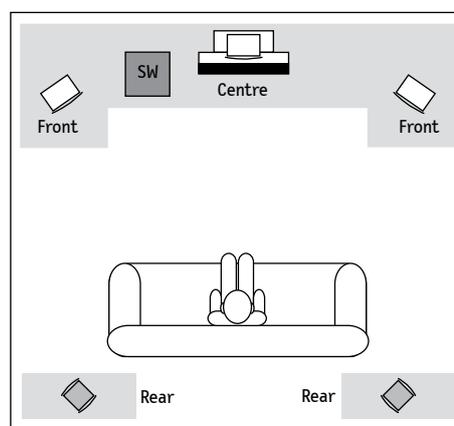


Rear speaker placement option B

Cinema Set

You can also wall-mount the dipole speakers behind the listening spot, at a height of 1.40–2.10 m. We recommend that you mount the M 450 D speaker cabinets with our L-Lock wall bracket, which permits them to be angled horizontally. The ideal angle for the dipole speakers is 45 degrees, which means they can radiate towards the side wall out the cabinet front and towards the rear wall out the back. If the rear side channels are reflected off both the side and rear walls, this will create the desired spatial diffusion. Note that the front sides of the dipole speakers should be at least 10 cm removed from the room's side walls.

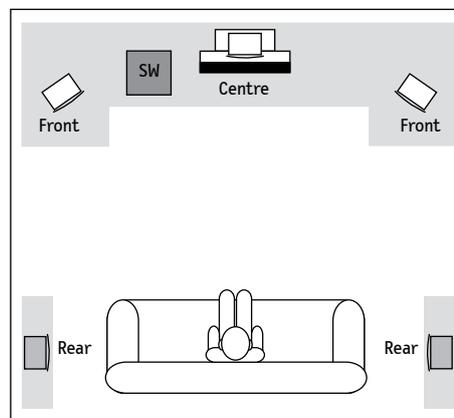
We recommend you place the rear speakers somewhere in the grey rear area.



Rear speaker placement option

C Concert Set

For a Concert Set with five direct-radiating M 450 FCR satellite speakers, position the rear speakers to the left and right of the listening spot, ideally at the same height—e.g., on the same shelf, or best of all on speaker stands. If you need to mount the speakers significantly higher or lower, experiment with angling them towards the listening spot. If the speakers are attached to the wall, we recommend using our Multilock wall mounts. The M 450 FCR rear speakers should be positioned at least 1.00 m away from the listener. If they are any closer to the listening spot, make sure that the front of the speakers is not directly pointed at the listener but into the room, angled towards the TV/screen.



Speaker positions in the 7.1 configuration

If you have augmented your System 4 set with an EX set (5.1 → 7.1 – see page 7), you can make full use of your 7.1 AV receiver and expand your surround setup into a 7.1 home theatre system.

Front • Centre • Subwoofer • Rear (Side)

The arrangement of speaker boxes follows the same pattern as a 5.1 system. Please refer to “Speaker Positions in the 5.1 Configuration” on the previous two pages.

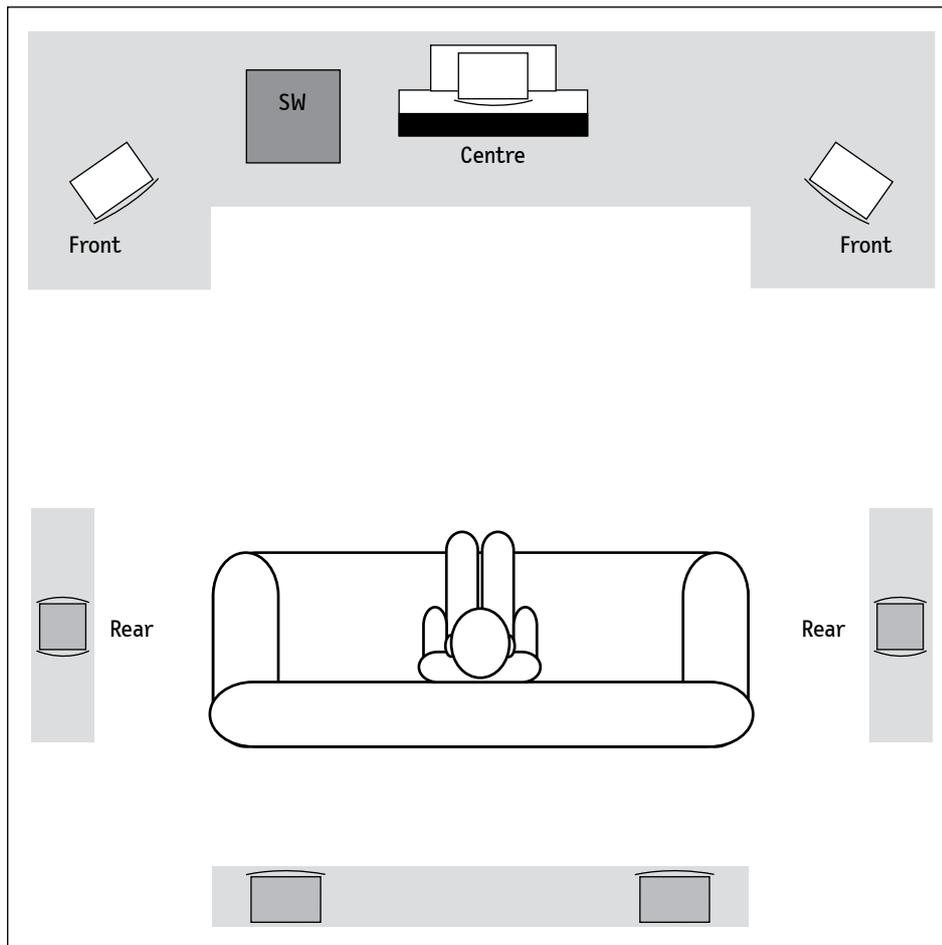
Rear centre

In an ideal 7.1 system, the rear effects speakers (rear sides) are positioned on the side walls facing the listening spot, and the rear centre speakers are positioned on the rear wall (height: 1.40–2.10 metres).

If the distance between the rear speakers and the listening spot has to be less than 1.00 m, we recommend the use of M 450 D dipole speakers

instead of the direct-radiating M 450 FCR speakers.

7.1 speaker placement: If you picture a top-view geometry of your surround setup, the four rear speakers should ideally form an isosceles trapezium. Each side of the trapezium should be at least 1.00 m long. If the sides have differing lengths, or if the four rear speakers are mounted at different heights, you can compensate for such asymmetries by entering the distances of the individual speakers in the AV receiver/amplifier's “Speaker Setup” utility.

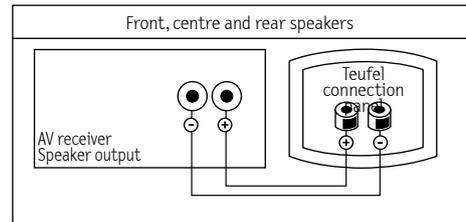


We recommend you place the subwoofer somewhere in the grey front area.

We recommend you place the rear speakers somewhere in the grey rear area.

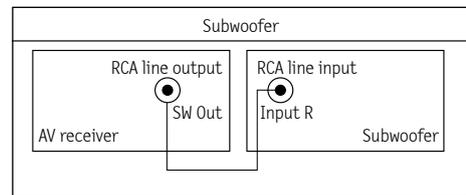
Connections

You can connect your System 4 loudspeaker set to any modern Dolby Digital/DTS 5.1/6.1/7.1 AV receiver/amplifier for a 5.1 setup with an active subwoofer. If your AV receiver is 6.1/7.1, simply ignore the Rear Centre Out(s). To make full use of a 7.1 AV receiver, you will additionally need to install the "5.1 → 7.1 EX" set (see page 7), which consists of two add-on M 450 D speakers for the left and right rear centre channels.

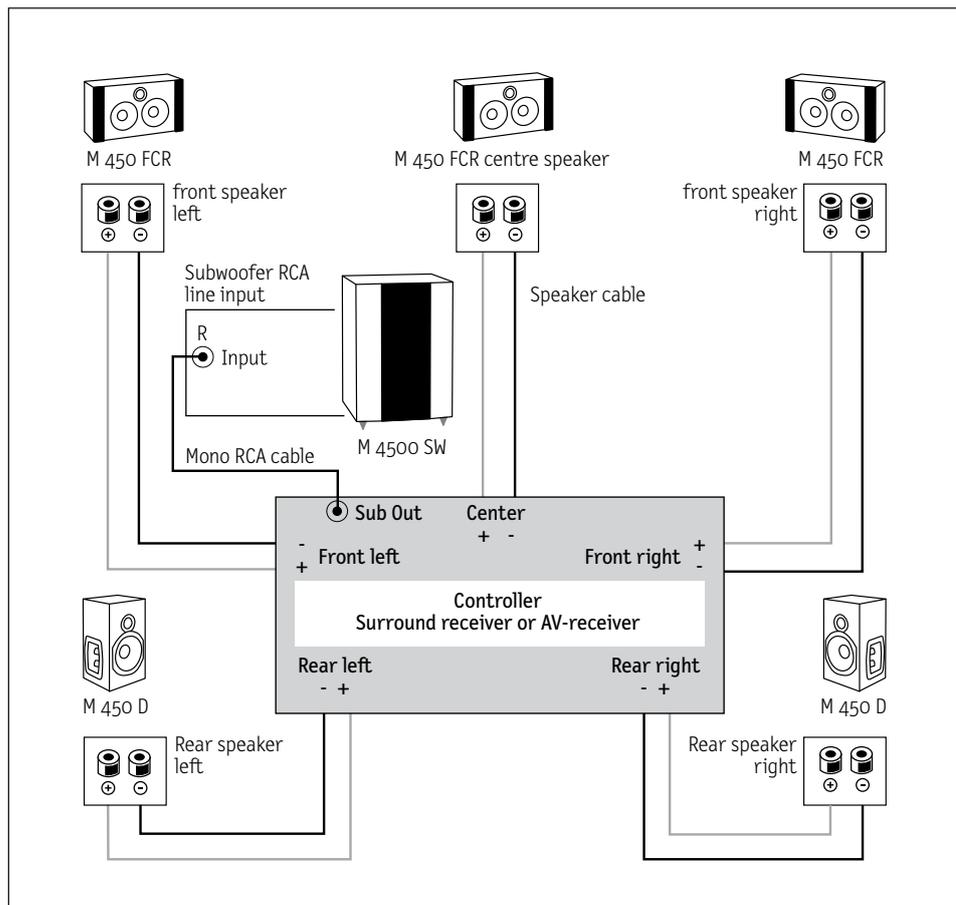


If you are using a 5.1 AV receiver, connect the front, centre and rear speakers as shown in the diagram.

Connect the subwoofer output (Sub Out) of your Dolby Digital/DTS AV receiver/amplifier to the right Line Input (R) of the subwoofer using a mono RCA cable. In this setup, the left input (Line Input L) is not connected. If you want to feed the Sub Out signal to both of the subwoofer's inputs for an additional bass boost, use a Y adapter (see Accessories, p. 7).



Connecting the speakers to an AV surround receiver (example: 5.1 Cinema Set)



Note:
With the expanded 7.1 set, connect the additional L/R rear centre speakers to the 7.1 AV receiver's L/R Rear Centre Outs.

Setting up the AV receiver

To take full advantage of a home theatre system with an active subwoofer, set the “Speaker Setup” section of your AV receiver to “small” or “normal” (not “large”) for the five satellite speakers. This ensures that the speakers receive the right amount of signal, and that the subwoofer and front speakers have matching volumes.

Also in the “Speaker Setup” section (Bass Management and/or Speaker Management), make sure the subwoofer is set to “On”.

The correct crossover frequency for the System 4 set is 100 Hz.

Setting up the subwoofer

Set the subwoofer itself to “Full Range”. This means that the phase and crossover frequency are controlled by the AV receiver. Make sure that the subwoofer’s frequency control is set to maximum.

The subwoofer’s output volume may vary depending on usage, e.g., home theatre sound system or music playback. Whereas an action-packed DVD typically contains very defined sub bass signals, many music-only sources do not. This is especially noticeable if your system is calibrated for optimum DVD playback. To find the best compromise between differing sound sources, use your own subjective judgement. Our recommendation is to determine the best subwoofer volume gradually over time.

Avoid configuring the subwoofer volume automatically via your AV receiver’s integrated room analysis computer (advanced receivers only). Instead, set the subwoofer level in the bass management/speaker management section (“Speaker Setup”) to a high value, and to medium-low on the subwoofer itself. This will guarantee that the subwoofer activates itself at the right times when in “Auto On/Standby” mode, and you can freely experiment with different bass levels that are suited to your various listening scenarios.

Subwoofer controls

What the icons mean



The lightning/arrow symbol inside an equilateral triangle informs the user about the possibility of a dangerous, non-isolated electrical current inside the device housing, indicating the risk of electrical shock.



The exclamation mark within the equilateral triangle, which can be seen on the back of the unit, indicates that there is important operating and service information for the user to read.



This product complies with the following European Union guidelines: 2004/108/EC and 2006/95/EC.

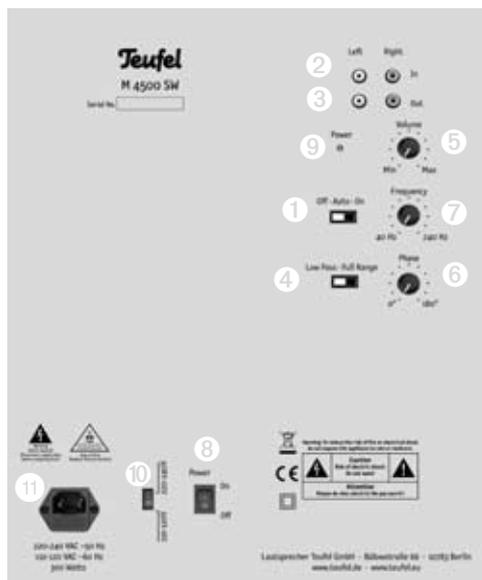


The "wastebasket" symbol printed on the type plates and amplifier labels of our products signifies that Lautsprecher Teufel ensures the proper disposal of its sold loudspeakers and subwoofers according to Germany's Electrical and Electronic Equipment Act.



This product complies with DIN EN 61140 (VDE 0140-1) and IEC 60417 of protection class II. It only requires a two-pin round plug (included) and not an earthed plug. The plug has a reinforced or double-shielded casing to prevent electrical shock.

Attention: The separating equipment of this equipment is the mains plug, this separating equipment must be usable without difficulties.



1 Power function

OFF means that the subwoofer is switched off; ON means that it is switched on. AUTO means that the subwoofer is operational but is only activated once it receives an audio signal. In "AUTO" mode, the subwoofer automatically switches to standby after 20 minutes of inactivity.

2 Line Input

Connect the AV receiver's "Sub Out" to the subwoofer's "Line Input" using a mono RCA cable (optionally with an additional Y adapter).

3 Line Output

Here, you can connect a second subwoofer for added bass or to compensate for resonant frequencies in the room.

4 Low Pass – Full Range

With the switch on "LOW PASS"; the built-in controls for "Phase" and "Frequency" are activated. With the switch on "FULL RANGE" (recommended setting), these parameters are controlled by the AV receiver.

5 Level

Use the "LEVEL" control to adjust the subwoofer's volume. In the receiver's bass management section, set the bass level to a high value, i.e., between 6 and 12 dB. Next, set the subwoofer's

level control to 10 o'clock. While the AV receiver is outputting its white noise setup signal, slowly turn up the subwoofer level to the desired volume.

6 Phase

This switch determines the phase relationship between the subwoofer and the front/centre speakers. If the subwoofer is positioned in the speaker setup as indicated on p. 9 (grey area of drawing), set the phase to 0°. With other setups, the 180° setting may produce better results.

7 Frequency

Use this control to set the crossover frequency between the subwoofer's bass signal and the bass frequencies of the other speakers. If you are using an AV receiver, set the receiver's crossover frequency to 100 Hz and turn the subwoofer's frequency control to maximum (hard right).

8 Power

OFF means that the subwoofer is switched off; ON means that it is switched on.

9 Power LED

When the subwoofer's mains power switch 8 is off, the power LED is off. When the subwoofer's mains power switch 8 is on, the power LED lights up red or green, depending on the position of the Power Function switch 1.

When the subwoofer is permanently active (= Power Function 1 ON), the power LED is green. When the subwoofer is in standby mode (Power Function 1 AUTO), the power LED is red. After the subwoofer is triggered into activity, the LED changes to green. After the subwoofer switches itself off after 20 minutes of inactivity, the LED is red again. When the Power Function switch 1 is on OFF, the LED is red.

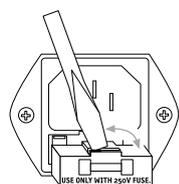
10 Voltage selector

This switch adapts the internal amplifier to the local mains voltage. NEVER set this to any other value than the standard local voltage value. In Germany, the correct position is "220 – 240V".

11 Fuse

This is where the mains power fuse is located.

The subwoofer is not working



If the Power LED on the rear panel does not light up, replace the fuse (see page 14, point 11).

If the Power LED lights up, set the subwoofer volume level to “Min”, unplug the subwoofer RCA cable from the amplifier, turn up the volume slightly and touch the tip of the RCA connector with your finger. If this produces a hum or crackle, the fault is with the amplifier or the amplifier settings. If the subwoofer remains completely silent, please contact our support team.

The subwoofer is making a humming noise

Hum may be caused by any connected audio device as well as by problems with the mains power. In most cases, excessive hum is caused by one of the following:

1. The subwoofer is connected to a different electrical circuit than the other components. Make sure that all the connected devices (including any computers) are powered from the same electrical circuit, i.e., the same mains socket.
2. The antenna connected to the audio system or TV has a different ground potential to the antenna socket. To test this, simply discon-

nect all the antenna cables from the wall socket. If this makes the hum disappear, you will need a ground breaker (available from most electronics stores). Simply insert the ground breaker between the antenna socket and the TV/receiver.

3. A line filter (to be purchased separately) can also be useful for hum removal. Note that you will need to connect all your electrical devices to the line filter. Make sure you can return the line filter for a refund if it does not produce the desired results.
4. Some types of power multiboxes are also known to produce hum. Try eliminating your multibox and plug the subwoofer's power cable directly into the mains socket.
5. If possible: Unplug the mains cable, rotate the connector plug by 180°, and plug it back into the mains socket.
6. If you have trouble locating the source of the hum, check whether the subwoofer is less noisy when you plug it into the mains connection in another room (e.g., using an extension cable). Also, try disconnecting the subwoofer's RCA cable from the receiver to see whether the hum is caused by one of the other connected audio devices.

Cleaning

Please take note of the following guidelines to protect the components and maintain the finish of your Teufel loudspeakers:

Avoid placing the speaker cabinets in direct sunlight. Avoid extreme temperature fluctuations and protect your loudspeakers against humidity. When cleaning the speaker cabinets, only use dry or moist cloths. Never use abrasive or alcohol-based cleaning products. If you need to clean a speaker membrane, do so very carefully using a dry cloth.

Technical specifications

All technical specifications are listed in our catalogue as well as on our website: www.teufel.eu

Active subwoofer

Loudspeaker with integrated amplifier for the reproduction of bass frequencies. Very low frequencies can only be reproduced by large-size speakers. To permit a speaker system with compact front speakers, the bass frequencies are handled separately by a dedicated subwoofer unit. As bass frequencies travel largely non-directionally, the subwoofer can be placed out of sight, e.g., behind the couch or under a coffee table. The crossover frequency between the front speakers and the subwoofer varies from system to system, but is usually somewhere between 50 and 120 Hertz.

Auto On/Off function

The Auto On/Off function activates the subwoofer when an audio signal is detected at the input, and switches it off again after a set time of inactivity (approx. 20 minutes).

Centre

The central loudspeaker of the home theatre system. Surround sound for TV/film places most of the dialogue in the centre speaker. Because of this, excellent reproduction of speech is a vital quality of the centre speaker.

Cinema set

"Cinema sets" are all Teufel speaker systems that consist of three direct-radiating front speakers and dipole effects speakers. "Concert sets", in contrast, consist of five direct-radiating speakers.

Concert set

"Concert sets" are all Teufel speaker systems consisting of five direct-radiating speakers. "Cinema sets", in contrast, consist of three direct-radiating front speakers and dipole rear speakers.

Dipole

Dipole loudspeakers are designed to emulate the authentic surround sound experience of a cinema. A cinema's surround speaker setup features numerous tiny speakers for the side and rear channels, which diffuse the directionality of the sound. In contrast to direct-radiating speakers, dipole speakers have a non-directional design, which creates a similarly diffused surround sound field.

Direct-radiating speaker

All conventional loudspeaker cabinets that directly radiate the sound at the listener are described as "direct-radiating speakers". In home theatre systems, direct-radiating speakers are primarily used for the sound channels of the three front speakers. In Teufel's Concert sets, they are also used for the rear channels.

Dolby Digital/DTS decoder

An electronic circuit to split digital multi-channel audio signals from DVDs into up to seven separate analog signals. "Dolby Digital" and "DTS" are different audio formats, so they require different decoders. Most AV receivers, DVD players and surround sound cards are equipped with both decoders.

Frequency/crossover frequency

The "crossover frequency" determines at which point in the frequency range the bass frequencies are separated off to the subwoofer. For example, a crossover frequency of 120 Hz means that all frequencies above 120 Hz are sent to the satellite speakers, and all frequencies below 120 Hz are sent to the subwoofer.

Level

The "Level" control on the subwoofer determines the subwoofer's volume. In a perfect speaker setup, all the speaker channels (including the subwoofer) are balanced in relation to the listening spot, i.e., all the speakers appear to have an equal volume.

Phase

The "Phase" control lets you adjust the subwoofer to the satellite speaker so that the membranes of all the speakers vibrate in the same direction ("phase") when reproducing signals around the crossover frequency. If the phase is set incorrectly, this may cause a reduced bass response or even bass cancellations. If the subwoofer is positioned between the front speakers, we recommend a phase setting of 0°; if the subwoofer is positioned closer to the listening spot, a phase of 180° may be more appropriate. Similarly, the 180° setting may help to eliminate bass cancellations if you position the subwoofer in other areas of the room. Always set the phase control to the position where the bass response is best.

Rear speaker

The rear speakers (→ dipole or → direct-radiating) mostly reproduce effects and atmospheric sounds. This creates a much more spatial sound field when playing back film sound and music.

Sub Out

Output on the receiver or amplifier to connect an active subwoofer using a mono RCA cable.

5.1/7.1 Pre Out

Preamp outputs on the receiver, or DVD player outputs. An analog audio signal (RCA connection) is provided for each speaker channel.

6.1/7.1 surround sound format

This surround sound format features one or two rear centre speakers between the rear side speakers. The signal for the rear centre speaker(s), which doesn't exist in a 5.1 matrix, is generated from the stereo signals of the rear effects channels (e.g., THX® Surround EX, Dolby Digital EX), or it is provided as a discrete channel (DTS Discrete). Even though there is only one additional channel, this can be used to drive one (6.1) or two (7.1) rear centre speakers. While the sound format itself is "6.1" in both cases, the speaker setup can be "6.1" or "7.1".

Teufel

If you have any questions, suggestions or criticisms, please contact our support team:

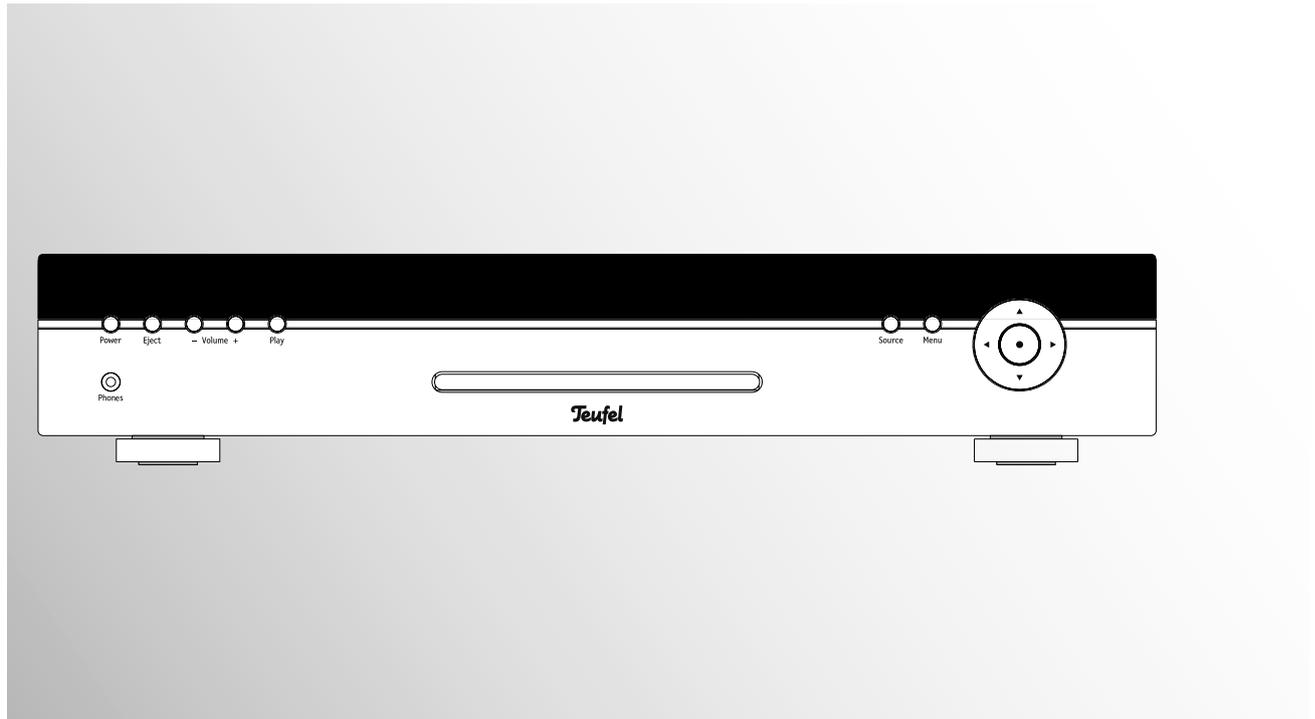
Lautsprecher Teufel GmbH

Gewerbehof Bülowbogen · Bülowstraße 66
10783 Berlin · Germany

Ph.: +49(30) 30 09 30 0
Fax: +49(30) 30 09 30 0
www.teufel.eu

No responsibility can be accepted for the correctness of this information. Subject to technical changes. Errors and omissions excepted.

Technical description and operating instructions



CP 5100 DR

5.1 DVD Receiver

Teufel

Contents

General notes and information	3	DVD/CD mode	17
Safety notes	4	Suitable DVDs/CDs	17
Overview	6	Handling DVDs/CDs	17
Control elements and connections	7	Inserting a DVD/CD	17
Front side	7	Ejecting a DVD/CD	17
Back side	7	Radio playback	18
Remote control	8	Setting the radio stations	18
Setup and connection	9	Station memory	18
Setup location	9	Saving stations	18
Connecting the speakers	9	Selecting stations from the memory	18
Subwoofer	9	USB mode	19
Antennas	9	Handling mobile storage devices	19
FM antenna	9	Inserting the USB stick and playback	19
AM antenna	10	Removing a USB stick	19
Television/projector	10	Playback functions	20
Inputs for sources	10	General playback information	20
Connecting to a power supply	11	DVD playback	20
Remote control	11	Extra display for DVD playback	20
Inserting batteries	11	Selecting files 21	
Functionality	11	MP3/DivX playback	21
Basic functions	12	Photo playback	21
Activating and deactivating	12	Repeat function (Repeat)	22
Selecting a source	12	Audio CD	22
Adjusting the volume	12	DVD	22
Mute	12	Movies (DivX, Mpeg4) and music (MP3, AAC)	22
Night mode	12	Troubleshooting	23
Menu functions	13	Software update	25
Menu "Video"	13	Care and cleaning	25
Menu "Audio"	14	How to clean your DVDs/CDs	25
Menu "System"	15	Protecting the environment	26
Menu "Exit"	15	Batteries and rechargeable batteries	26
Special function buttons	16	Disposal of the unit	26
"Audio" button	16	Technical data	26
"Level" button	16	Index	27
"Resolution" button	16		

General notes and information

Notice

The information in this document may be changed without prior notice and in no way constitutes any liability on the part of Lautsprecher Teufel GmbH.

No part of these instructions may be reproduced in any form or be broadcasted in any way electronically, mechanically, by photocopy or recording without the written permission of Lautsprecher Teufel GmbH.

© Lautsprecher Teufel GmbH
Version 1.1, September 2010

Trademarks

© All trademarks are the property of their respective owners.

Dolby

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

DTS

Manufactured under licence with the US patent numbers: 5,451,942 5,956,674; 5,974,380; 5,978,762; 6,487,535 and other U.S and international patents, which have been issued and are pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and the DTS symbol are trademarks of DTS, Inc. ©1996 – 2008 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 the 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

Visible on the back side of the device,
e.g. serial #: CP51009440122A-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)

Tel.: 00800 - 200 300 40 (free of charge)

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

www.teufelaudio.com

Proper use

Only use the unit as described in these 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 used 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 installation of electrical equipment or mains voltage which is too high can cause

electric shocks.

- The device is only suitable for use with a power supply voltage of 220 V–240 V ~ / 50Hz/60Hz.
 - 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 device produces smoke, a burning odour or emits unusual sounds, immediately disconnect it from the mains and discontinue use.
 - The standby button does not disconnect the device from the power supply. For this reason, connect it to an easily accessible socket so that you can quickly disconnect it from the power supply in the event of faults.
 - Never open the unit case.
Repairs may only be carried out by an authorised specialist workshop. Only use parts which conform with the original unit specifications. There are electrical and mechanical parts in this unit which are essential in order to avoid exposure to sources of danger.
 - Do not insert any objects through the vent slots in the case.
 - Only use the unit in indoor areas.
 - Do not operate the unit in moist areas and protect it from drops of water or 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. If water or other foreign bodies should enter the case, disconnect it immediately from the mains power supply and remove any batteries. Send the unit 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 use electrical devices without supervision.
-

Danger Danger to eyes and skin!

If the disc tray is open and the lock is disabled, an invisible laser beam or visible laser light is emitted.

- Do not look into the beam, even if you are using optical instruments.
-

Danger Danger to hearing!

Loud noise may lead to hearing loss.

Particularly when a subwoofer in "Stand-by/ Auto On" mode is activated by bass impulse and has been set to maximum volume, very high noise pressure may be produced. This may also have psychological consequences as well as cause physical injury. Children and pets are particularly at risk.

- Set your signal source unit volume control to a low setting.
 - 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 location 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 instable locations, on wobbly stands or furniture, with attachment fixtures that are too small etc. The unit could topple over or fall, injuring persons or causing damage to the unit itself.
- Arrange the speakers so that they cannot be knocked over accidentally and make sure that the cables do not pose a trip hazard.
- Ensure that any wall mounting is performed in a professional manner.
- Only use suitable wall brackets for mounting. Check the carrying capacity of the walls.
- Only set up the device and the speakers on stable, level surfaces.
- Do not place the unit near sources of heat (e.g. heaters, ovens, other heat generating equipment such as amplifiers etc.)

Danger Danger of explosion!

Batteries and rechargeable batteries may explode if overheated.

- Never attempt to recharge normal batteries.
 - Do not expose batteries or rechargeable batteries to heat and never throw them in open fire.
-

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 ventilation slots with curtains, cloths, newspapers or similar. Heat build-up inside the unit can shorten the lifetime of the unit.

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.
 - If the device is subjected to warm temperatures after being cold (e.g. after transport), condensation may occur inside of it. Wait at least 2 hours before you connect and activate it.
 - Old, used batteries may leak.
Remove the batteries from the remote control if you do not use them for a prolonged period of time.
-

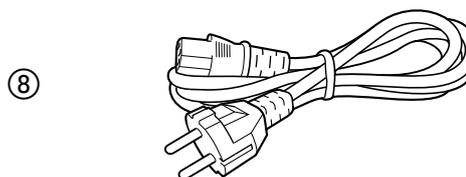
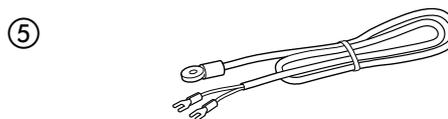
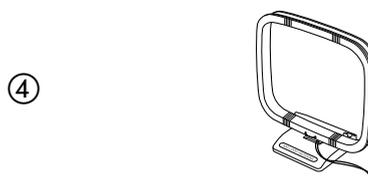
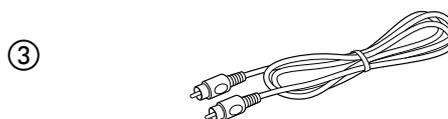
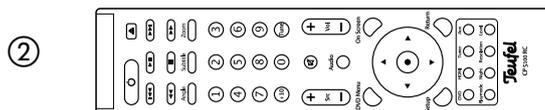
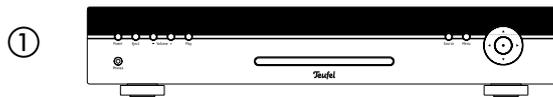
Overview

Product contents

- ① 1x DVD receiver
- ② 1x remote control
- ③ 1x video cord (RCA)
- ④ 1x AM antenna
- ⑤ 1x Dipole FM antenna
- ⑥ 1x antenna adapter
- ⑦ 2x micro/AAA batteries for the remote control
- ⑧ 1x mains cord

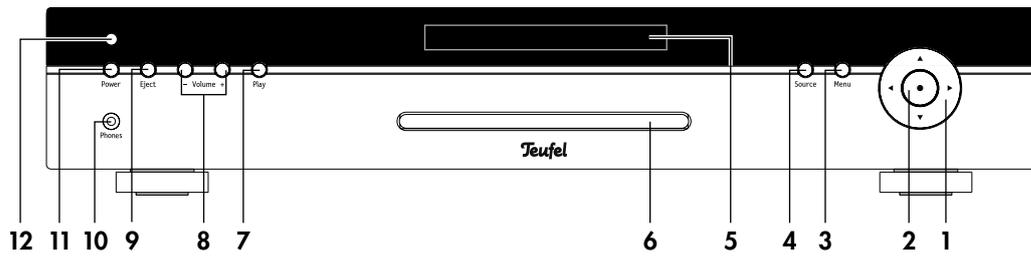
Check to be sure

- 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).



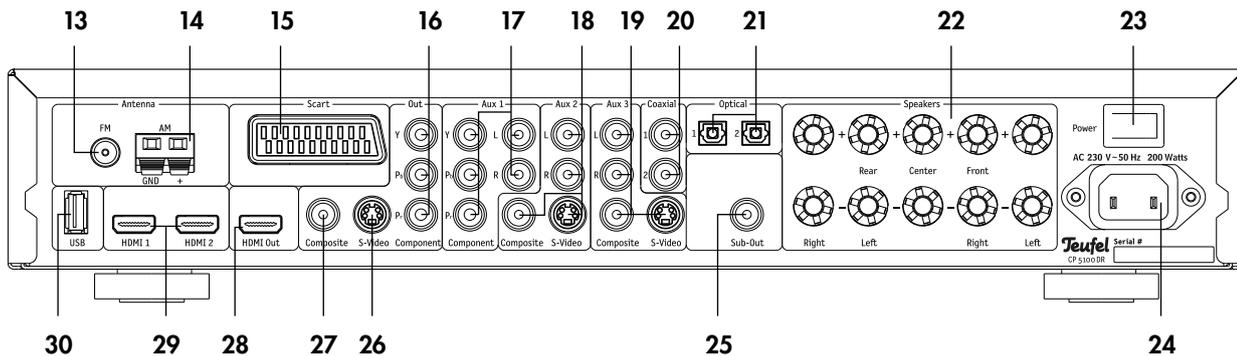
Control elements and connections

Front side



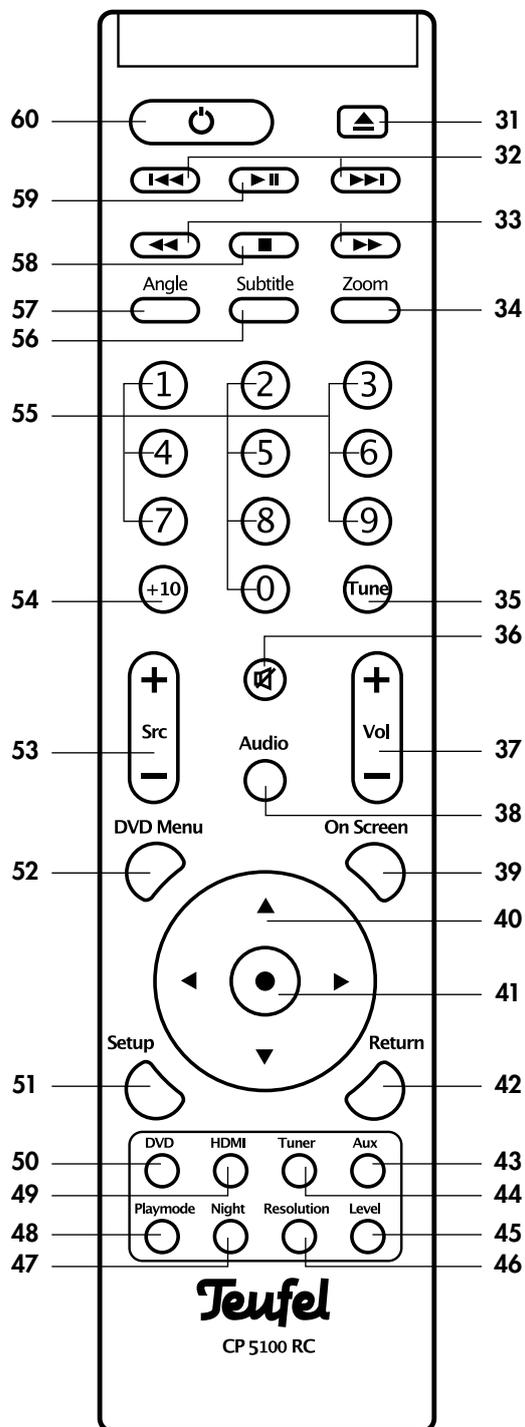
Pos	Name	Description	Pos	Name	Description
1	▲▶▼◀	Navigation buttons	8	- Volume +	Volume buttons
2	●	Select button	9	Eject	DVD eject button
3	Menu	Menu button for DVD menu	10	Phones	Earphone connection
4	Source	Source device selection	11	Power	Switching the device on or to standby
5	-	Display	12	-	Power LED
6	-	DVD compartment			
7	Play	Playback/pause			

Back side



Pos	Name	Description	Pos	Name	Description
13	FM	Antenna connection FM	21	Optical 1 + 2	Input jacks for digital audio signals via optical cables
14	AM	Antenna connection AM	22	Speakers	Speaker terminals
15	Scart	SCART output jack	23	Power	Mains switch
16	Component Out	Output jacks for TV / projector with component video	24	-	AC inlet
17	Aux 1	Input jacks for analog source device with component video and audio	25	Sub-out	Connector jack for active sub-woofer
18	Aux 2	Input jacks for analog source device with FBAS video or S-Video and audio	26	S-Video Out	Output jack for TV/projector with S-Video
19	AUX 3	Input jacks for analog source device with FBAS video or S-Video and audio	27	Composite Out	Output jack for TV/projector with FBAS video
20	Coaxial 1 + 2	Input jacks for digital audio signals via coax cable	28	HDMI Out	Output jack for TV/projector with HDMI connector
			29	HDMI 1 + 2	Input jacks for digital source devices with HDMI connector
			30	USB	Connector for USB storage device

Remote control



Pos	Name	Description
31		Open and close the disc tray
32		Skip back/forward
33		Fast forward/rewind
34	Zoom	Enlarge display
35	Tune	Setting a station
36		Mute speakers
37	+ Vol -	Increasing/decreasing volume
38	Audio	Set surround mode and audio delay
39	On Screen	Displaying/hiding additional display during DVD playback
40		Navigation buttons
41		Select button
42	Return	Return button
43	Aux	Direct selection of sources Aux 1 to 3
44	Tuner	Direct selection of sources "FM AUTO", "FM MONO" and "AM"
45	Level	Adjust sound control and level of the speakers
46	Resolution	Adjusting resolution of the HDMI output
47	Night	Night mode on/off
48	Playmode	Repeat functions
49	HDMI	Direct selection of sources HDMI 1 and 2
50	DVD	Direct selection of DVD and USB sources
51	Setup	Changing settings
52	DVD Menu	Accessing the DVD menu
53	+ Src -	Changing source device
54	+10	Enter the tens decimal place for the station memory or music track
55	1... 0	Number keys
56	Subtitles	Changing subtitles for DVD playback
57	Angle	Changing angle for DVD playback
58		Stopping playback
59		Playback/pause
60		Switching the device on or to standby

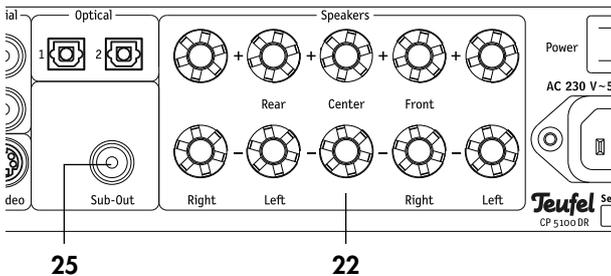
Setup and Connecting

Setup location

- 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.
- Arrange the connector cables so that they do not pose a trip hazard.
- Do not place any heavy objects on top of the cables or the unit.
- There should be approximately 10 cm of space around the device to enable adequate air circulation.

Connecting the speakers

To connect the speakers, use high-quality, two-conductor speaker cable with a diameter of at least 1.5 mm² (AWG 15). You can order cables and banana plugs in our web-shop (www.teufelaudio.com) in the "Accessories" area.



The connector terminals **22** "Speakers" for the five satellites are located on the back of the DVD receiver:

- Front – front speakers, "Left" and "Right".
- Center – middle speakers.
- Rear – rear speakers, "Left" and "Right".

The terminals are each marked red (+) and black (-).

! Observe the correct polarity!
Connect the like coloured terminals with each other. Otherwise the sound quality will suffer.

The wires of the speaker cables are marked with different colours or shapes.

Split the speaker cable on both ends over a length of about 30 mm and remove approximately 10 mm of the insulation sheathing. Twist the cable to ensure that no wires protrude.

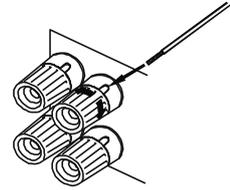


Connecting the cables to the speakers should be described in the operating instructions for the speakers.

If you use banana plugs, screw the cord into place on the plug (see instructions for the banana plug), remove

the small cap that covers top entry of terminals **22** and then push the plug into the visible jack of the connector terminal.

If you don't use any banana plugs, turn the connector terminal **22** counterclockwise to loosen it. Insert the stripped cable end into the hole that is now visible. Turn the terminal clockwise. This will clamp the cable in place.

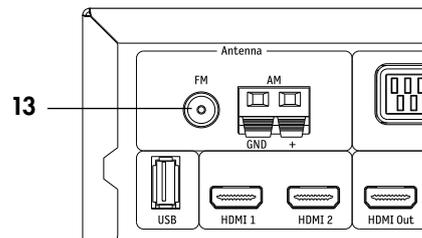


Subwoofer

You can connect an active subwoofer to the RCA jack **25** "Sub Out". Only low frequency audio signals will be issued at this jack up to an adjustable frequency.

Antennas

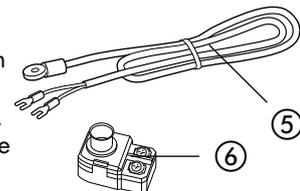
Danger Risk associated with lightning strike!
If you are using outdoor or roof antennas, be absolutely sure that the antenna has lightning protection.



FM antenna

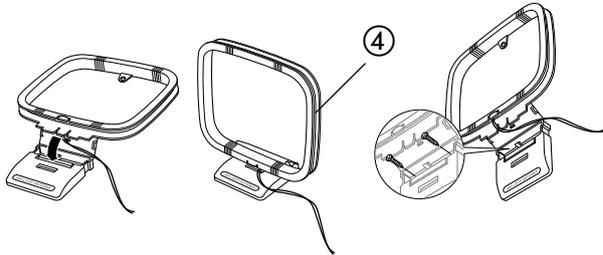
Connect the antenna for receiving FM/VHF stations to the jack **13** "FM". This can be a roof/outdoor antenna or a cable television connection. You will need a coaxial cable for this.

If an antenna connection is not available at your setup location, you can use the enclosed dipole FM antenna **5**. Unwind the throw-out aerial, screw the lugs onto the adapter **6**, push the adapter into the jack **13** "FM" and adjust the position of the throw-out aerial until you have the best reception. Then fix the antenna in place with tape or a nail.

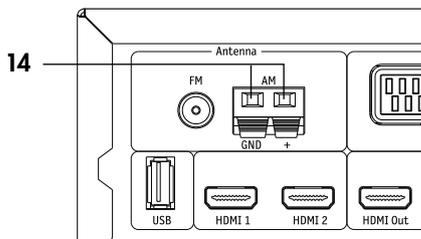


AM antenna

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

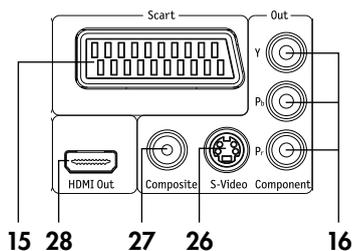


Connect the antenna cable with the jacks 14 "AM" on the back of the DVD receiver. Push down the lever on the terminal and run the cable end into the above opening. Releasing the lever will hold the cable in place.



Television/projector

You can connect a television and/or projector to the following outputs:



15 SCART

Analog video signal (RGB, composite (CVBS) and S-Video) and audio signal (stereo) via a SCART cable. The SCART connection must be activated via the video menu (see "Video output", page 13).

16 Component

Analog component video signal (YPbPr) via a three-line RCA cable. When connecting, observe the jack colour coding (green, blue and red). This output also has to be activated via the video menu (see "Video output", page 13).

26 S-Video

Analog video signal (S-Video) via a mini-DIN cable (also referred to as Hosiden cable).

27 Composite

Analog video signal (FBAS) via an RCA cable. A video cable ③ with two yellow RCA jacks is included with the CP5100 DR, which you can use to connect a television to this jack.

28 HDMI Out

Digital video and sound signals via a HDMI cable.

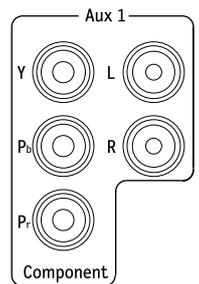
Preferably, you should use the HDMI output 28 to connect your screen as the signals of the HDMI inputs 1 and 2 are relayed to this output only. If connecting the TV via one of the other outputs, the HDMI inputs cannot be used.

Inputs for Source devices

The CP 5100 DR offers three inputs for analog sources (Aux 1 – 3) and two digital HDMI sources. There are also two optical and two coaxial digital sound inputs available that you can freely assign to the source devices using the setup menu (see page 14).

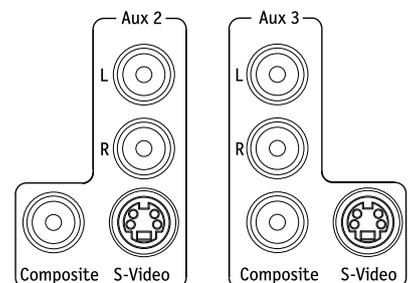
17 Aux 1

Here, you can connect a source with an analog component signal (YPbPr) and analog sound. For this, you will need a triple RCA cable for video (Y, Pb und Pr) and a double RCA cable for the sound (L and R).



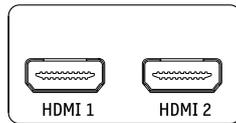
18 Aux 2 and 19 Aux 3

Here, you can connect a source with analog video and sound. The video signal can be transferred as FBAS (Composite) with a RCA cable or as S-Video with a mini DIN cable. You will need a double RCA cable for the audio signal (L and R).



29 HDMI 1 and 2

You can connect a source with a digital audio and video signal to each socket. For this, you will need a HDMI cable.



! Please note

You can only use these HDMI inputs if the playback device (TV or projector) is also connected via HDMI.

20 Coaxial 1 + 2

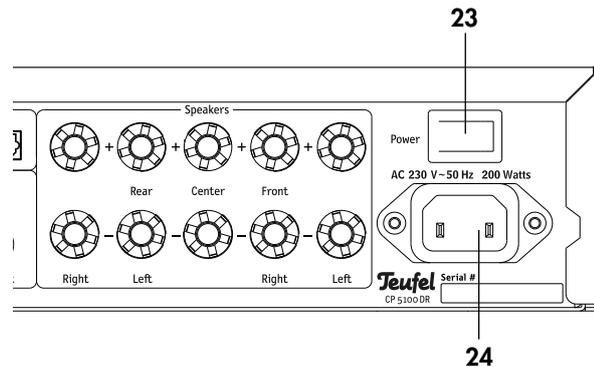
You can connect the coaxial digital audio outputs of two sources here. For this, you will need a coaxial cable with RCA plugs for each output. In the menu, you can assign a digital audio input to each video source (see page 14).

21 Optical 1 + 2

You can connect the optical digital sound outputs of two sources here. You will need an optical cable with a Toslink connector. Your source requires either an optical 3.5 mm plug or a Toslink connector as well. In the menu, you can assign the digital audio connector input to the various video sources (see page 14).

Connecting to a power supply

- Make sure that the mains switch **23** "Power" on the back of the device is turned off ("OFF" position).
- Connect the mains connector jack **24** to a mains socket with the mains cord **(8)**.

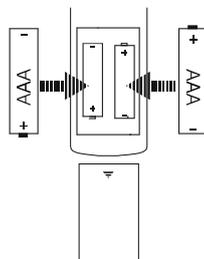


Remote control

To use the remote control you will need two batteries, type micro and/or AAA with 1.5 volts (included in the package).

Inserting batteries

- Push the battery compartment cover on the back of the remote control towards the arrow and remove it.
- If necessary, remove the old batteries (please follow the notes on page 26).
- Insert the batteries in the battery compartment as shown in the figure.
- Put the cover back on the compartment and push it into place.



Functionality

The remote control transmits infrared control signals. For proper functioning, you have to point the front of the remote control towards the DVD receiver. Make sure there are no obstacles blocking the infrared signal.

Fluorescent and energy saving lamps installed in the direct vicinity may impair the functions of the remote control or even prevent its functioning.

Basic functions

Activating and deactivating

- With the mains switch **23** "Power" on the back of the device you can turn your DVD receiver on and off. Once you have turned it on, the device is in standby mode.
- With the button **11** "Power" or **60** "⏻", you can switch your DVD receiver to operational and/or standby mode. The power LED **12** is blue when the device is turned on until the display **5** is operational.

Selecting a source

Once you have turned on the device, the last source selected is activated.

- With the button **4** "Source" and/or **53** "Source +/-", you can switch sources in this order: DISC (DVD/CD and USB), FM AUTO (radio VHF stereo), FM MONO, AM (radio MW), Aux 1, Aux 2, Aux 3, HDMI 1, HDMI 2.
- Or you can switch the source with the direct select buttons:
 - 43** "Aux" – Aux 1, Aux 2, Aux 3
 - 44** "Tuner" – FM AUTO, FM MONO, AM
 - 49** "HDMI" – HDMI 1, HDMI 2
 - 50** "DVD" – DISC and/or USB

The selected source is shown on the display **5**.

Adjusting the volume

With the menu function "Power-on Vol", you can set the volume when turning on the device (see page 15).

- Increasing the volume: Press the button **8** "Volume +" and/or button **37** "Vol +".
- Reducing the volume: Press the button **8** "Volume -" and/or button **37** "Vol -".

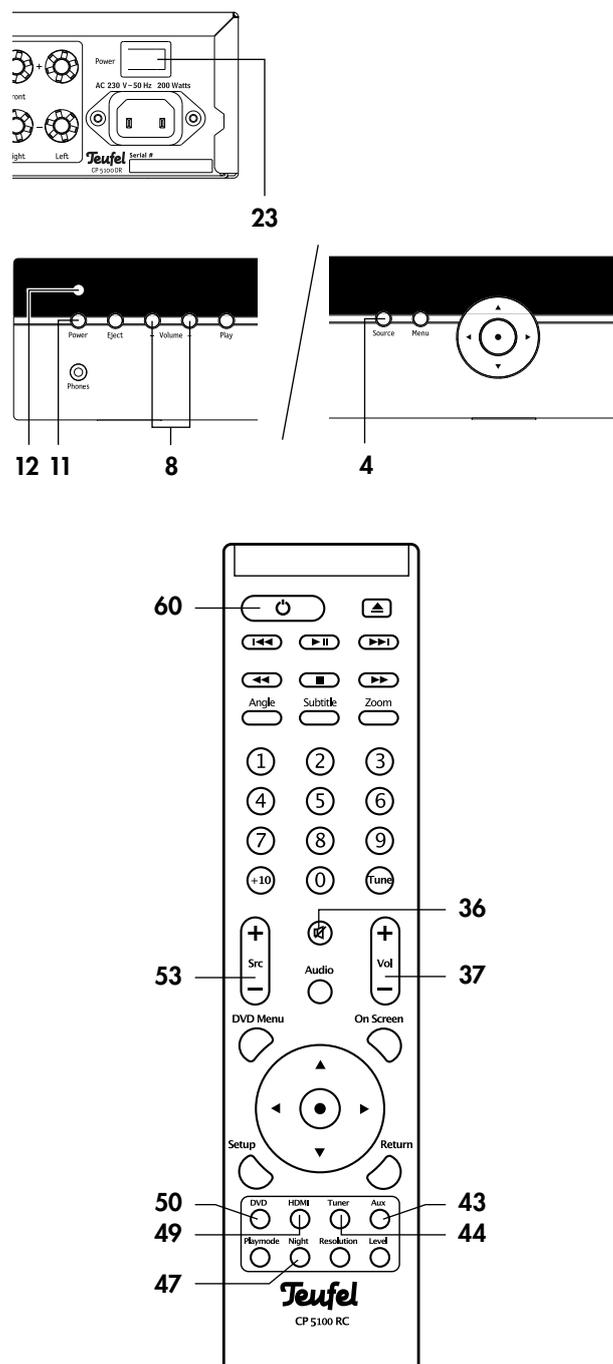
The selected volume is shown on the display **5** and on the screen from 0 (mute) to 50 (loud).

Mute

- With the button **36** "Mute", you can turn off the sound. The message "MUTE ON" will appear on the display **5**.
- Turning the sound back on: Press the button **36** "Mute" again or change the volume.

Night mode

In night mode, the DVD receiver reduces the volume, particularly the volume of the subwoofer. By pushing the button **47** "Night" you can activate or deactivate night mode. The message "Night on" and/or "Night off" will briefly appear on the display **5** and the television.



Menu functions

With the menu, you can set most functions of your CP 5100 DR. You control the menu with the remote control; the menu itself is shown on the connected TV screen.



Important

The menu functions are only available if "DISC" is selected as source.

Both devices must be turned on and the CP 5100 DR picture must be visible on the television.

- Press the button **50** "DVD" to select "DISC" as the source.
- Press the button **51** "Setup". The main menu will appear on the screen.
- Select the desired submenu with the navigation buttons **40** "▲▼" and press the select button **41** "●" or the navigation button **40** "▶". A submenu will appear. You can open other submenus in this way and change settings.
- Press the navigation button **40** "◀" to return to the previous menu.
- You can exit at any time by pressing the button **51** "Setup".

If the menu appears in German ("Beenden" instead of "Exit"), change the language to English:

- Select the item "System" with the navigation buttons **40** "▲▼" and press the select button **41** "●" or the navigation button **40** "▶".
- Press the select button **41** "●" or the navigation button **40** "▶" to access the "Sprache" submenu.
- Press the select button **41** "●" or the navigation button **40** "▶" again to access the submenu "OSD-Menü".
- Select the item "Englisch" with the navigation buttons **40** "▲▼" and press the select button **41** "●". The menu will change to English.
- Press the navigation button **40** "◀" until only the main menu is visible.

Menu "Video"

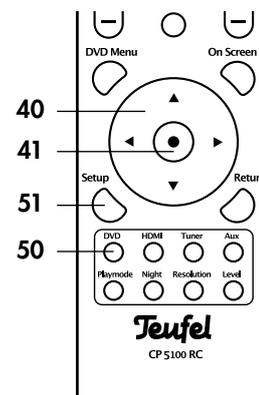
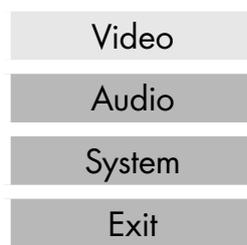
"Aspect Ratio"

Adjusting the display on the television:

4:3 Pan Scan – 16:9 movies are shown with the full height on a 4:3 TV-set, but the sides are cropped.

4:3 Letterbox – 16:9 movies are shown with full width on a 4:3 TV set with black bars on the top and bottom.

16:9 Wide – Correct setting for 16:9 TV-sets.



"TV Format"

Adjusting the transmission encoding system for the connected television:

NTSC – American standard

PAL – European standard

If in doubt, consult the operating instructions of your television.

"HD-Resolution"

Setting the resolution for HD playback. Possible values: **480p/576p, 720p, 1080i, 1080p**

You can also adjust these settings with the special function button "Resolution" (see "Special function buttons" on page 16).

"Video Output"

Activating the analog video output:

SCART – Connection to the jack **15** "SCART" in standard resolution via a SCART cable.

Component I – Connection to the component output **16** "Component" with normal resolution (interlaced component).

Component P – Connection to the component output **16** "Component" with higher resolution (progressive component).

If in doubt, consult the operating instructions of your television.

The outputs **26** "S-Video", **27** "Composite" and **28** "HDMI" are always active.

"Lip Sync"

Digital image-processing in the TV-set requires a certain amount of time. To keep the image and sound in sync, televisions delay the sound by a few milliseconds. To ensure that the sound of your DVD receiver is also in sync, you can set the receiver's audio delay from 0 to 250 ms here. For this, move the marker on the scale using the navigation buttons **40** "▲▼" and change the value using the select button **41** "●". You can also change this setting with the button **38** "Audio" (see page 16).

Menu "Audio"

If you are using a Teufel speaker set, you can use the recommended values for some settings. For more information, see "Teufel Presets" in this section.

"Speaker Setup"

Set the speaker types. Smaller speakers may not be able to handle low tones well and tend to distort the audio signal; if no centre speaker is present, the voices of the actors will be missing in movies; if no rear speakers are present, surround sound effects will be missing. If set properly, the CP 5100 DR is able to make optimal use of the existing speakers:

Front – Size of the speakers to the left and right of the screen: Small (small, compact boxes), Large (full-volume speakers, upright boxes).

Center – Size of the middle speaker: Small, Large, Off – with Dolby® Virtual Speaker (DVS), the mid-channel is distributed to the left and right speakers.

Rear – Size of the rear speaker: Small, Large, Off – surround sound is simulated using the existing speakers with DVS.

Surround – Size of the rear speaker: Small, Large, Off – surround sound is simulated using the existing speakers with DVS.

Subwoofer – On or Off – If no subwoofer is connected, the lowest tones will be emitted as best as possible via the existing speakers.

Crossover – Sounds are emitted via the subwoofer up to the frequency set here. The cut-off-frequency can be set in the range 40 to 200 Hz. Move the marker on the scale with the navigation buttons **40** "▲▼" and change the value with the select button **41** "●".

"AV Mapping"

Assigning audio inputs to the video inputs: You want to connect your PC via HDMI, but your sound card has an optical audio output? Your DVD-changer has a component output for video and a coax audio connection? Your DVD receiver can handle this: Select the desired video input and set the desired audio input for this.

Video	Speaker Setup	HDMI 1	▶ HDMI 1
Audio	AV Mapping	HDMI 2	Aux 1
System	Distance	Aux 1	Aux 2
Exit	Level	Aux 2	Aux 3
	Equalizer	Aux 3	Coax 1
	Teufel Preset1		Coax 2
	Teufel Preset2		Opt 1
			Opt 2

"Distance"

If the speakers are located at different distances to the listening position, surround sound will suffer. To compensate for these run time differences, set the distances from the listening position to each speaker from 0 to 10 metres. You can move the marker on the scale with the navigation buttons **40** "▲▼" and change the value with the select button **41** "●".

"Level"

Volume adjustment and sound test. Here, you can increase or reduce the relative volume for each speaker.

Video	Speaker Setup	Front Left	+ 10
Audio	AV Mapping	Center	+ 8
System	Distance	Front Right	+ 6
Exit	Level	Rear Right	+ 4
	Equalizer	Rear Left	+ 2
	Teufel Preset1	Subwoofer	0
	Teufel Preset2	Test Tone	- 2
			- 4
			- 6
			- 8
			- 10

Select the desired speaker and move the marker on the scale with the navigation buttons **40** "▲▼" in the positive (loud) or negative (soft) range. Apply the value by pressing the select button **41** "●".

You can also change this setting with the special function button "Level" (see "Special function buttons" on page 16).

With the option "Test Tone", a noise signal will be emitted from each speaker for approximately 2 seconds that allows you to verify the settings. The test will end as soon as you exit the submenu.

"Equalizer"

Adjusting the sound in three frequency ranges: Select the desired frequency range (treble, mid, bass) and move the marker on the scale to the positive (up) or negative (down) range using the navigation buttons **40** "▲▼". You can apply the value by pressing the select button **41** "●".

"Teufel Preset 1 + 2"

Presets for current Teufel speakers. Here you can automatically set the recommended values for some Teufel speaker sets (e. g. speaker size and crossover frequency). Select your speaker set and apply the values by selecting "OK".

Menu "System"

"Language"

Set the language for menus, subtitles and playback.

OSD Menu – Language for the menu functions (German or English).

Disc Menu – Language for the DVD menus. Multiple languages are available, provided they are supported by the DVD.

Audio – Language for DVD playback. Multiple languages are available, provided they are supported by the DVD.

Subtitle – Language for the subtitles for DVD playback. Multiple languages are available, provided they are supported by the DVD. The setting "Off" deactivates subtitles.

"Parential"

Child lock for DVD playback. Some DVDs are labelled for certain age groups and will be locked depending on this setting. Unfortunately, many DVDs are not protected accordingly; personal copies and DivX movies usually do not have this protection scheme.

Lock Sys. – This protects the DVD/CD. For this, the four-digit password (default setting "0000") must be entered via the number pad on the remote control and confirmed with the select button **41** "●". If the password is entered incorrectly, the password prompt will appear again.

Unlock Sys. – This deactivates the protection. The password must be entered.

Rating – Adjusting the protection level. There are eight levels available. They correspond to the recommendations of the MPAA (Motion Picture Association of America) for the rating of movies:

2 – Intermediate rating

3 – PG (Parental Guidance), young children should be accompanied by a parent.

4 – PG 13 (Parental Guidance 13), children under 13 years of age should be accompanied by a parent.

5 – Intermediate rating

6 – PG-R (Parents Guidance - Restricted), under 17 years of age only when accompanied by a parent.

7 – NC-17 (No Children 17 and under admitted), viewing only for ages 18 and up.

8 – Adult, only for adults.

No Limit – No restriction, check deactivated.

After selecting the level the four-digit password (default setting "0000") must be entered via the number pad on the remote control and confirmed with the select button **41** "●". If the password is entered incorrectly, the password prompt will appear again.

"Set PWD"

Changing the password: The old password must first be entered, then the new password must be entered twice. Then press the select button **41** "●". If the old password was entered incorrectly or the two entries of the new password are different, the password will be queried again. Make sure to remember the new password! If necessary, you can reset the DVD receiver to the factory default settings (see "SW version" below).

"Dimmer"

Setting the brightness of the display **5**:
3 (bright), 2, 1 (dark), Off

"Power-on Vol"

Set the volume after activation:
Last (last set volume), 20, 40

"SW version"

You can see the version of the installed software (also known as "Firmware") in the upper field. Firmware updating is possible (see page 25).

Reset – This resets the device to the factory default settings.



Important

All menu settings are lost when performing reset!

Menu "Exit"

You exit the menu when you select this menu item and the source "DISC" becomes active again.

Special function buttons

Button "Audio"

With the button **38** "Audio", you can set the ambient sound or the surround mode and the audio delay.

Setting ambient sound

Pushing the button **38** "Audio" briefly switches to the respectively possible modes:

If only two speakers (front left and right) are active, you switch the Dolby® Virtual Speaker (DVS) each time you push the button:

- "DVS REF" Normal DVS ambient sound.
- "DVS WIDE" Extended DVS ambient sound.
- "DVS OFF" Deactivate DVS.

If all speakers are active, two ProLogic and two stereo settings are available for all dual-channel sources:

- "PLII Movie" Dolby® ProLogic II for movies.
- "PLII MUSIC" Dolby® ProLogic II for music.
- "STEREO 5" Stereo playback on all speakers.
- "STEREO 2" Stereo playback only on the front speakers left and right and the subwoofer.

The surround mode is preset when Dolby Digital or DTS coded multi-channel tracks are played back; as a result, this function is blocked.

Setting audio delay

By pushing the button **38** "Audio" for more than two seconds, you can set the value of the audio delay (see menu function "Lip Sync" on page 13):

- The current value in milliseconds (ms) is shown in the display panel and on the screen.
- With the volume buttons **37** "Volume +/-", you can now set the audio delay within the range from 0 to 240 ms.

The device deactivates the function after three seconds of button inactivity.

Button "Level"

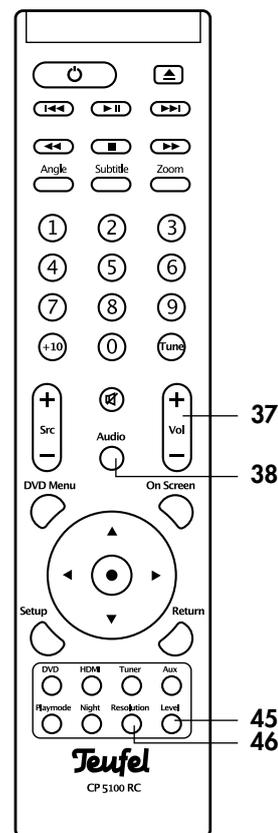
You can set the sound with the button **45** "Level" and adjust the volume of the speakers.

Adjusting the sound

By briefly pushing the button **45** "Level", you access the three ranges for the sound control in sequence:

- Bass** low tones (bass tones)
- Treble** high tones
- Middle** medium-range tones (language)

With the volume buttons **37** "Volume +/-" you can now set the selected range from "-10" (decrease) to "+10" (increase). After three seconds of button inactivity, the device switches off the function.



Volume adjustment.

You can increase or decrease the relative volume for each speaker. First push and hold the button **45** "Level" for more than two seconds until the first speaker channel is displayed in the display panel and on the top left of the screen (see below). Tip the button **45** "Level" to select the desired speaker now:

- FRONT L** – Front left
- CENTER** – Center
- FRONT R** – Front right
- REAR L** – Rear left
- REAR R** – Rear right
- SUB** – Subwoofer

With the volume buttons **37** "Volume +/-" you can now set the volume within the range from "-10" to "+10". After three seconds of button inactivity, the device deactivates the function.

Button "Resolution"

By tipping the button **46** "Resolution" you can set the resolution of the television set for HD playback. Possible values:

HDMI 576P, HDMI 720P, HDMI 1080I, HDMI 1080P.

DVD/CD mode

Compatible DVDs/CDs

- Only use commercially-available DVDs/CDs that are labeled with the symbols shown at the right.
- DVDs/CDs with files in the following formats can be played: CD Audio, VCD, SVCD, DVD Video, DivX, Mpeg4, MP3, AAC and JPEG.
- Standard DVDs/CDs with a diameter of 80 and 120 mm can be used.
- It is also generally possible to use recordable DVD/CD. However, there may be problems due to too high burning speed or insufficient quality of the recordable disc. Unfortunately, the only way to find out is by trying.
- CDs that were produced for commercial use might not always play.



Handling DVDs/CDs

Every DVD/CD is covered by a resistant plastic layer that protects it against outside influences. However, you still have to protect the discs from dirt and scratches. Your DVD receiver can correct minor damages of the DVD/CD. Larger scratches or other damages may cause it to "freeze" or similar errors may result. Please also follow the guidelines on the CD case for the proper handling of DVDs/CDs!

Inserting a DVD/CD

Attention Risk of damage!



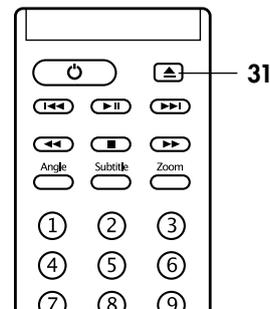
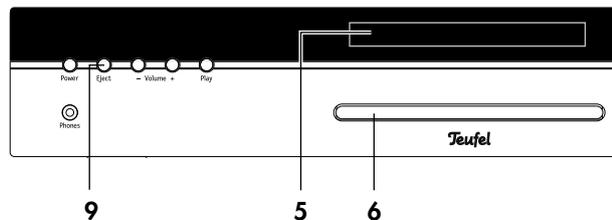
Do not in any case insert multiple DVDs/CDs on top of one another. Do not insert anything other than DVDs/CDs.

- Press the button **9** "Eject" and/or **31** "⏏". The DVD tray will be ejected and the source will change to "DISC" at the same time.
- Carefully place the DVD/CD with the printed side up in the tray recess.
- Press the button **9** "Eject" and/or **31** "⏏". The DVD tray will close and the CD will be read. The message "READING" will appear on the display and on the screen. Some DVDs may start to play automatically after a few seconds.

The CD and USB playback functions are identical and are described in the section "Playback functions" on page 20.

Ejecting a DVD/CD

- Stop playback by pressing the button **9** "Eject" and/or **31** "⏏". The DVD tray will eject to the front.
- Take the DVD/CD out of the tray.
- Press the button **9** "Eject" and/or **31** "⏏". The CD tray will close.



Radio playback

Select one of the three radio broadcast bands (see page 12):

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

FM MONO – Reception of weak stations in mono, RDS mode possible with limitations.

AM – Reception of mono stations from 522 to 1,629 kHz.

Setting the radio stations

Direct entry of the tuning frequency:

- Briefly push the button **35** "Tune".
- Enter the frequency without any decimal or comma using the number buttons **55** "1 ... 0".
- Push the selection button **42** "•".

Station scan:

You can change the receiving frequency with the buttons **33** "◀▶":

- **Automatically:** Pressing the button will start the station scan in the desired direction, which will continue until a station with sufficient broadcasting power is received.
- **Manually:** The frequency is gradually increased and/or decreased every time you tip the button (FM: 0.05 MHz step, AM: 9 kHz step).

The set tuning frequency is shown in the display **5**. If the station is received in stereo, the message "STEREO" will also appear. If the station broadcasts an RDS signal, then the message "R•D•S" will appear and the name of the station will replace the frequency display after a short time.

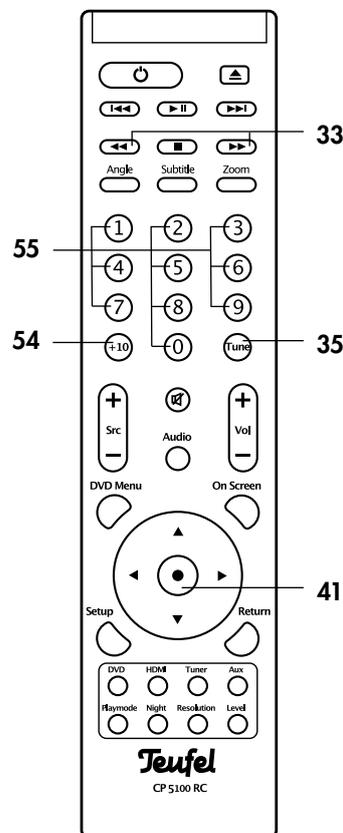
Station memory

Your radio can save up to 30 stations for each of the two radio bands (FM and AM). You can select the saved stations conveniently with the push of a button.

Presetting stations

- Tune in the desired station as described above.
- Press the select button **42** "•". The display now shows an available memory slot by a blinking number, e. g. "P01".
- You can select the desired memory slot with the number pad **55** "1...0". You can change the tens decimal place with the button **54** "+10".
- Press the select button **42** "•" again. The message "SAVE OKAY" will appear briefly in the display.

The station has now been saved. If there is no button activity for five seconds, the device will switch back to normal mode.



Saving stations automatically

Push the button **35** "Tune" for approx. six seconds until the message "APS Start" appears in the display panel. The radio is now searching for stations with adequate reception and automatically saves them. Previously saved stations are deleted in the process. After the search ends, the station is saved to the memory slot 01.

Tuning in stations from the memory

You can directly choose stored stations by using the number pad **55**. With the button **54** "+10" you can access the memory slots with two-digit numbers.

USB mode

Your new DVD receiver can read USB memory sticks (USB 1.0 / 2.0 up to 2 gigabytes) and playback any stored MP3 files or JPEG files.

USB stands for "universal serial bus". Every modern computer has a USB interface for connecting a keyboard and mouse. The USB memory stick was originally developed to replace computer disks and make data transfer more easy. Meanwhile, these convenient sticks are also used for digital cameras and music playback devices.

Handling mobile storage devices

USB sticks are sensitive electronic devices and must therefore be handled with care. If you are not using your storage device, be absolutely sure to store it in a protective sleeve or put its cap on.



Important

Do not use any storage devices that exhibit mechanical **damages** or which have been immersed in a liquid. Do not subject storage devices to direct **sunlight**. Improper handling may result in **data loss**! If possible, make backup copies of your music on your PC.

Inserting the USB stick and playback

- Press the button **9** "Eject" and/or **31** "▲". The DVD tray will be ejected and the source will change to "DISC" at the same time.
- If necessary, take the DVD/CD out of the tray. Place the DVD/CD back in its jewel case.
- Insert the USB stick in the jack **30** "USB". The stick will only fit in one position.
- Press the button **9** "Eject" and/or **31** "▲". The DVD tray will close and the USB stick will be read. The messages "READING" and "NO DISC" will appear in the display and on the screen.
- The file browser will appear on the screen shortly afterwards (see "File selection" in the next section).

The playback functions for CD and USB are identical and are described in the section "Playback functions" on page 20.

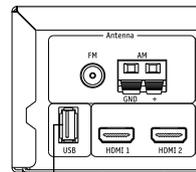
Removing a USB stick

Attention Risk of damage!

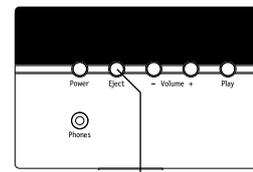


Never remove the USB stick when the DVD receiver is still accessing it!

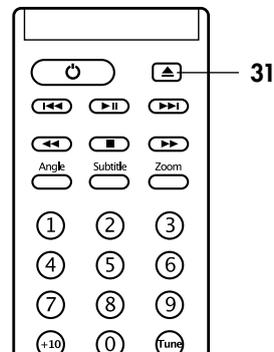
- Press the button **9** "Eject" and/or **31** "▲". The playback will stop and the DVD tray will eject to the front.
- Take the USB stick out of the jack **30** "USB".
- Press the button **9** "Eject" and/or **31** "▲". The CD tray will close.



30



9



31

Playback functions

General playback information

- Pausing playback: Press the button **7** "Play" and/or **59** "▶/||".
- Continuing playback: Press the button **7** "PLAY" and/or **59** "▶/||" again.
- Playing the next track: Tip the button **32** "▶▶".
- Playing the previous track: Tip the button **32** "◀◀".
- Playing the track in fast forward (only for DVD or music playback): Tip the button **33** "◀◀" or "▶▶". Every time you tip the button, the playback speed will increase: 2x, 4x, 8x, 16x, 32x. The playback occurs without sound; you will see the elapsed track time in the display. To continue normal playback, press the select button **41** "●".
- Stop playback: Press the button **58** "■".

DVD playback

- "Instant Skip" – Skipping 10 seconds ahead: Tip the navigation button **40** "▶".
- "Instant Replay" – Skipping 10 seconds back: Tip the navigation button **40** "◀".
- Accessing the DVD menu: Press the button **52** "DVD menu".
- Changing the angle of view (if different angles of view have been saved on the DVD): Tip the button **57** "Angle".
- Changing or deactivating subtitles (if subtitles are supported by the DVD): Tip the button **56** "Subtitle".
- Enlarging the display: Tip the button **34** "Zoom" – The display will be enlarged by 2, 3, 4 and 5 times in sequence. Move the window with the navigation buttons **40** "▲▼◀▶".

On screen display for DVD playback

With the button **39** "On Screen" you can open and hide an extra display (only for DVD playback):

Time	Chapter	Angle	Audio	Subtitle	Zoom
00:08:31	01/11	Off	ENG5.1	Off	x1

You can switch through the fields with the horizontal navigation buttons **40** "◀ ▶" and then use the vertical navigation buttons **40** "▲▼" to adjust the values:

Time – Elapsed playtime.

Chapter – Number of the current chapter and total number of chapters. You can skip to a specific chapter.

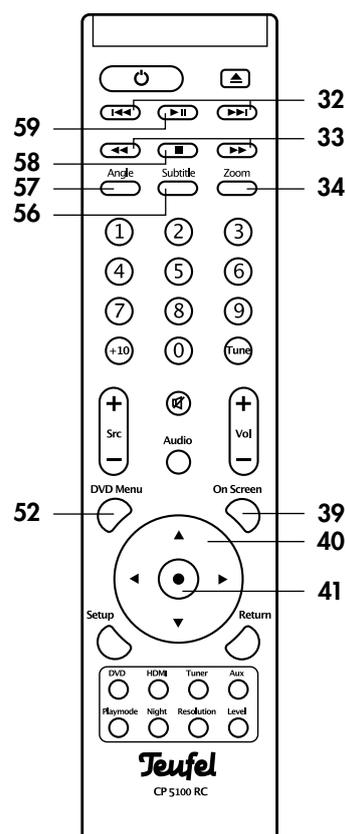
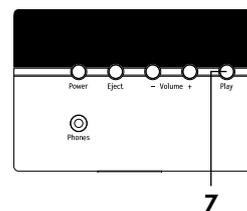
Angle – Changing the angle of view (if different angles of view have been saved on the DVD).

Audio – Changing the audio playback language (if the DVD has multiple audio tracks).

Subtitle – Changing or deactivating subtitles (if the DVD supports subtitles).

Zoom – Enlarging the display by 2, 3, 4 and 5 times

The device will deactivate the on screen display if there is no button activity for about 10 seconds.



Selecting files

The content of DVDs, CDs and USB sticks with media files is displayed on the screen in a simple browser.

The right area will always show the content of the current folder (also known as the directory). You will see two folders and two photo files in this sample screenshot. Only such files are shown that can be played on the DVD receiver.

The left area shows the content of the parent folder – in this case, just "ROOT" – which stands for the highest level directory on the DVD/CD or USB stick.

You can select a file or folder with the navigation buttons **40** "▲▼". The current selection is highlighted (e. g. the "ROOT" folder on the right side). You can open or access the selected file with the select button **41** "●".

Alternatively, you can also use the number pad **55** "1...0" and the tens button **54** "+10" to enter the number shown to the right of the desired file.

Example:

Let's open the "2. FOLDER":

Now the currently selected folder is highlighted in white on the left side ("2. FOLDER") and its content is shown on the right side.

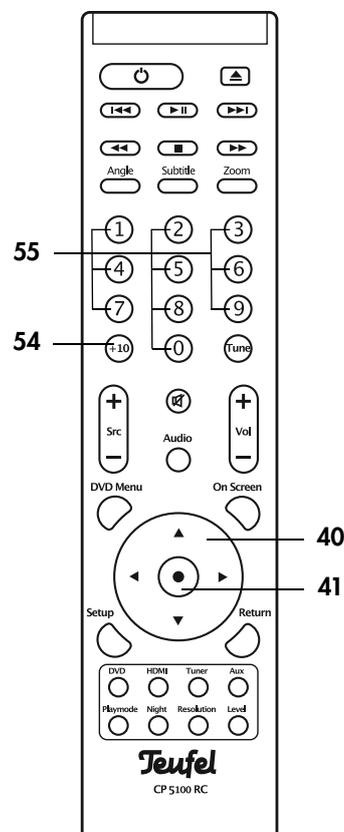
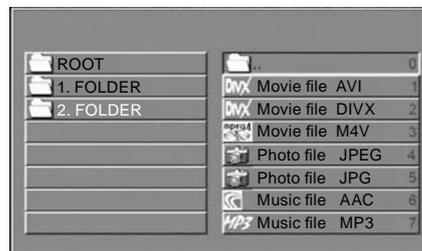
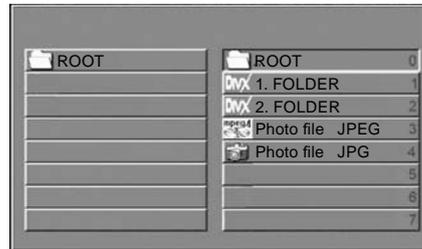
The highest level folder, whose name is just shown with two dots, leads you one folder back. Please also note the different symbols for movie, photo and music files shown at the other sample files.

MP3/DivX playback

- Playing the next track: Tip the navigation button **41** "▶".
- Playing the previous track: Tip the navigation button **40** "◀".

Photo playback

- Displaying the next photo: Tip the navigation button **40** "▶".
- Displaying the previous photo: Tip the navigation button **40** "◀".
- Rotating/flipping the photo: Tip the navigation buttons **40** "▲▼".



Repeat function

By pressing the button **48** "Playmode" you can select various repeat functions; the activated function is shown in the display:

Audio CD

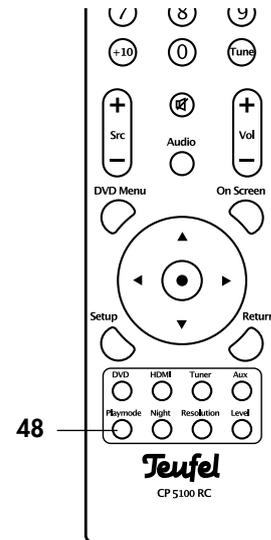
- **Single Repeat On** – Repeat the current track.
- **Repeat All** – Play through all tracks and start again from the beginning.
- **Repeat Off** – Repeat function off, normal playback.

DVD

- **Chapter Repeat On** – Repeat the current chapter.
- **Title Repeat On** – Repeat the current title.
- **Repeat Off** – Repeat function off, normal playback.

Movies (DivX, Mpeg4) and music (MP3, AAC)

- **Single Repeat On** – Repeat the current file.
- **Folder Repeat On** – Repeat all files in the current folder.
- **Disc Repeat On** – Play through all files and start from the beginning.
- **Repeat Off** – Repeat function off, normal playback.



Troubleshooting

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

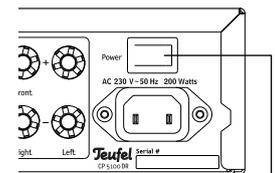
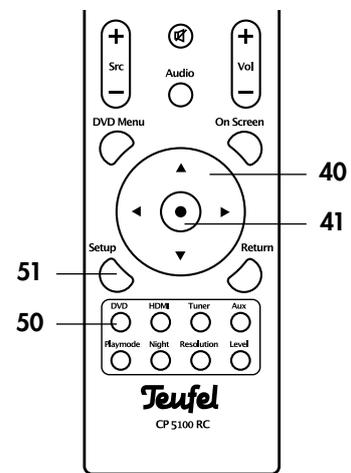
Problem	Possible cause	Solution
The device doesn't work, the display is dark.	No power supply.	Make sure that the mains plug is securely inserted.
		Use another device to check that the socket is functioning.
No CD/DVD playback	No CD/DVD inserted.	Insert a CD/DVD.
	CD/DVD inserted upside down.	Insert the CD/DVD with the printed side up.
	The region code of the DVD does not match the device.	Insert a DVD with a matching region code.
	Wrong type of CD/DVD.	Insert the right type of CD/DVD.
	CD/DVD damaged or dirty.	Clean or change the CD/DVD.
	Condensation in the device.	Take out the CD/DVD and let the device stand for one to two hours while activated.
No image	Television is not on.	Turn on the television.
	Wrong television AV input selected.	Select the right television AV input (e. g. HDMI 1).
	DVD receiver set to the wrong video output or to the wrong HDMI resolution.	Check the settings and change if necessary (see page 13 "Video output" and "HD resolution"). To see the display, create a video connection to the television via 27 composite if necessary (see page 10).
	Connector cable not wired properly or sits loose.	Correct the cable connections.
	Connector cable damaged.	Replace the connector cable.
	CD/DVD dirty.	Clean the CD/DVD.
Display fuzzy/distorted.	CD/DVD damaged or dirty.	Clean or change the CD/DVD.
	Television or device has the wrong colour standard (PAL/NTSC) setting.	Change the colour standard (PAL/NTSC) setting. PAL is the correct standard in Western Europe (except for France).
	Disturbance by interconnected devices, e. g. video recorders.	Directly connect the devices.
	The DVD receiver has an incorrect display format setting.	Change the display format to the correct setting (see page 13).
"NO DISC" in the display.	CD/DVD damaged, dirty, incompatible or inserted the wrong way around.	Clean or change the CD/DVD.
Skipping to the next track and/or chapter is not working properly.	Some DVDs do not support the skip function, for example when playing warnings at the beginning of the DVD.	Continue playback.
	The DVD only has one chapter.	Alternative: Fast forward.
No audio or not all audio channels can be heard.	Speakers wired incorrectly.	Check and correct the wiring.
	The AV assignment is incorrect.	Correct the AV assignment (see page 14).
	Wrong DVD audio track selected.	Press the button 39 "On-Screen" and select another audio language.
	The DVD receiver is set to mute ("MUTE").	Press button 36  to deactivate the mute function.
	The speaker is deactivated.	Activate the speaker (see "Speaker config" on page 14).
	Playback speed has been increased or reduced.	Switch to normal playback by pressing the PLAY button.

Problem	Possible cause	Solution
No or distorted music playback.	The files on the data storage device are not in MP3 or AAC format.	Delete files with the wrong format.
	File damaged.	Delete or skip the file.
Remote control is not working.	No line of sight between the remote control and the device.	Remove any obstacles.
	The remote control is not pointed properly.	Point the remote control at the device.
	Batteries inserted in the remote control with wrong polarity.	Insert the batteries the right way around (see diagram on the battery compartment).
	Batteries in the remote control are empty.	Insert new batteries.

There are numerous parameters in the menu functions, which may impair or even prevent normal operation. If your DVD receiver is behaving "unusually", you can reset the device to the factory settings. This resets parameters such as speaker size or level to the default values.

To reset all parameters to the factory setting:

1. Press the button **50** "DVD" to select "DISC" as source.
2. Press the button **51** "Setup". The main menu is shown on the screen.
3. Select the submenu "System" with the navigation buttons **40** "▲▼" and press the select button **41** "●". The submenu will open.
4. Select the item "SW Version" with the navigation buttons **40** "▲▼" and press the select button **41** "●". The submenu will open.
5. Select the item "Reset" with the navigation buttons **40** "▲▼" and press the select button **41** "●". The display will flicker briefly.
6. Turn off the device with the power switch **23** "Power" on the back.
7. Wait approximately 10 seconds before turning the device back on.



23

Software update

The CP 5100 DR's software is being developed continually. You can download subsequent versions from our website www.teufelaudio.com/support/ and install them as follows:

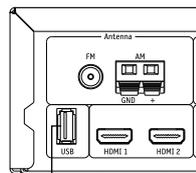
You will need a USB stick with a maximum capacity of 2 GB.

Attention Risk of damage!

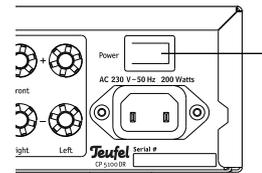


The DVD receiver must not be deactivated when carrying out the following steps.

1. Unpack the downloaded file and save it to the USB stick.
2. If there is a DVD/CD in the drive, remove it.
3. Insert the USB stick in the jack **30** "USB".
The USB stick will be read. Various installation messages will appear on the display and screen.
4. After a short time, the message "DONE" will appear on the screen.
5. Turn off the device with the power switch **23** "Power" on the back.
6. Pull the USB stick out of the jack **30** "USB".
7. Wait approximately 10 seconds before turning the device back on.



30



23

Care and cleaning

Clean your DVD receiver regularly with a soft, slightly damp microfibre cloth. Please note the following carefully:

Danger Risk of electric shock!



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

- Ensure that no liquid penetrates the unit.
- Disconnect the device from the mains power supply before cleaning.

Attention Risk of damage!



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

- If possible use only plain water with no cleaning products. 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.

How to clean your DVDs/CDs

Only use cleaners intended for CDs to clean your CDs.

If necessary wipe the CD off with a soft, lint-free cloth, from the middle to the outside. In the process, hold the CD between the index finger and thumb of your other hand.



Touching the play side of the CD with your hand may cause playback problems.



Protecting the environment

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!

*) labelled: Cd = cadmium, Hg = mercury, Pb = lead

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 separate from household waste, e. g. at a collection point run by the communal authority borough. In this way, used devices can be recycled and waste materials disposed of in an environmentally friendly manner.

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

Technical data

Operating voltage:	220–240 V~, 50/60 Hz
Power consumption, max:	200 W
Output power stereo:	80 W (4 Ohm, 1 %)
Signal to noise ratio (SNR):	better 85 dB
Distortion (THD+N):	0.19 %
Dimensions (W x H x D):	430 x 81 x 355 mm
Net weight:	5.9 kg

Technical changes reserved!

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

A

Angle 20
Antennas 9
Audio 14, 15, 16, 20
Aux 10, 12
AV assignment 14

B

Batteries
 Inserting 11

C

CD 17
Chapter 20
Child lock 15
Coaxial 11
Component 10, 13
Composite 10
Connecting
 Antennas 9
 Speakers 9
 Television 10
Connecting to a power supply 11
connection 9

D

Dimmer 15
Disc menu 15
Distances 14
DVD 12, 17
 Ejecting 17
 Inserting 17

F

Factory setting 24
Faults 23
File selection 20

H

HDMI 11, 12
HDMI Out 10
HD resolution 13

I

Image format 13

L

Language 15
Letterbox 13
Level 14, 16
Lip Sync 13
Locks 15

M

Mains switch 12
Mute 12

N

Night mode 12
NTSC 13

O

Optical 11
OSD menu 15

P

PAL 13
Pan scan 13
password 15
Playback 21
 DVD 20
 MP3/DivX 21
 Photo 21
Progressive 13

R

Radio 18
Radio stations
 Saving 18
 Selecting stations from the
 memory 18
Remote control 8
 Inserting batteries 11
Repeat function 21
Reset 24
Resolution 16

S

SCART 10, 13
Selecting a source 12
Selecting stations from the
 memory 18
Setting the radio stations
 Automatically 18
 Manually 18
Software update 25
Sound control 14
source devices 10
Speaker config. 14
Subtitles 15, 20
S-Video 10
SW version 15
System 15

T

Teufel Presets 14
Time 20
Tuner 12
TV standard 13

U

Unlock 15
USB 19
USB stick
 Inserting 19
 Playback 19
 Removing 19

V

Video 10, 13
Video output 13
Volume 12

W

Widescreen 13

Z

Zoom 20

Teufel

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

Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen - Aufgang D1
10783 Berlin (Germany), Buelowstr. 66

Tel.: 00800 200 300 40 (toll-free)
Fax: +49 (0)30-300930930
www.teufelaudio.com

No liability is accepted for the accuracy of this information. Technical changes, typographical errors and other errors reserved.