

LT 6 THX Select

5.1 Home Theatre Loudspeaker Set with THX® Select Certification



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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.teufelaudio.com 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.

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

Technical specifications

All technical specifications are listed on our website at www.teufelaudio.com

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

Lautsprecher Teufel GmbH

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Please read the following safety guidelines very carefully.

Packaging materials, particularly plastic bags and foils, should be kept out of children's 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
- Has been directly exposed to rain or another type of liquid
- ➤ The unit is inoperative 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 quidelines.

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 expose the units to humidity or moisture. Protect them from excessive humidity and do not place them in environments such as damp basements. Avoid operating the units near wet environments such as bathtubs, shower basins, hand basins, drains, swimming pools, etc. Also, avoid placing the units in areas that are permanently exposed to direct sunlight.

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. Do not expose device to dripping or splashing water. Do not place objects filled with liquids, such as vases on the device.

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 heat sink 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. Make sure the power switch is in the »off« position before connecting or disconnecting the device.

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 (higher than 3/4), 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.

2. Introducing the Theater LT 6 System



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 LT 6 loudspeaker set is designed for audio playback in rooms sized up to 50 sqm. 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.: 0800-200 300 400), or write an e-mail using the contact form provided on our website www.teufelaudio.com. 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 12 of this operating manual. Further answers are provided on the "FAQ/Support" pages of our website: www.teufelaudio.com.

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



3. 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. To fit the grilles into their frames, you need to bend them in very slightly – be careful when doing this so as to avoid permanently deforming them.

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

Included components

The LT 6 THX Select set is shipped as a complete system:

LT 6 THX Select Concert Set 5.1:

- ▶ 4 x M 720 FR THX Select
- ▶ 1 x M 720 C THX Select (with table mount)
- ▶ 1 x M 7100 SW THX Select
- ▶ 1 x power cable
- ▶ 1 x operating manual

Accessories

As different customers have different cable requirements, our systems do not ship with any standard speaker cables. However, you can order suitable cables for the speakers and subwoofers directly from us, as well as any required mounts or stands.

All the optional accessories for the LT ${\bf 6}$ system are described in the next chapter.

4. Accessories (optional)

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

Optional accessories for the Teufel LT 6 THX Select

Teufel offers the following accessories for your LT 6 THX Select system:

Teufel banana plugs



These 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 10 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.

Note: On some AV receivers, the speaker terminals are hidden behind protective covers. You can easily remove these with a pair of pointed scissors (make sure to disconnect the mains power cable first). Yamaha is the only manufacturer with a proprietary speaker terminal design that is incompatible with the banana plug standard.

Teufel speaker cable 2 x 2.5 mm²



The highly flexible, unilaterally marked OFC cable has sufficient diameter to ensure unhindered bridging up to 15 meters. The white casing is inconspicu-

ous, and is offered as a cable roll in two lengths: 15 or 30 meters.

Teufel speaker cable 2 x 4 mm²



The OFC copper cable with 2 x 4 cross sections gives an extremely stable connection and is, at the same time, practically created.

Inconspicuous colours (white casing) and high flexibility through individual 0.08 qmm single wires guarantee an uncomplicated installation. This cable is offered as a roll in two lengths: 15 or 30 meters.

4. Accessories (optional)

Teufel Subwoofer Cable



Special RCA cable - developed for use with the subwoofer. The best connection between an active subwoofer and an AV Receiver. Protected via high-quality

shielding against interference from other sources, with stable gold-plated connectors to provide secure contact. The cable is available in three different lengths, so your subwoofer can truly stand whereever you'd like it.

Teufel resonance eliminators



Designed to eliminate all unwanted resonant frequencies. Made from a sophisticated high-density rubber which is also used in space travel, Teufel's highend "Vibrapod" 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's Vibrapods are the professional's choice.

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.

Teufel Home Cinema Cable Set AC 4545 WS



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

- ▶ 5 m Teufel subwoofer cable AC 3550 CW
- ▶ 30 m Teufel loudspeaker cable 4 qmm AC 4530 CS
- ▶ 15 m Teufel loudspeaker cable 4 qmm AC 4515 CS
- ▶ 10 x Teufel Banana plugs AC 8502 PL

General notes on speaker placement

As the LT 6 satellites are designed as floor-standing column speakers, you can place them almost anywhere you like. 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 720 C) lower than 50 cm or higher than 1.40 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 TV/screen should be centred between left and right front speakers.

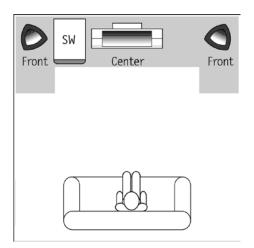
Make sure that the centre speaker and the two front speakers are positioned in a straight line, or on a slight arc with the TV/screen. If the distances between you and the speakers vary significantly, this will degrade the audio signal's spatial imaging. (Note: The different acoustic delays that are created by diverging speaker distances can be individually compensated for with the AV receiver's "Delay" function.)

Always make sure to set up your speakers properly so they sound as good as possible.

Subwoofer

At the recommended crossover frequency of 80 Hz, the bass signal coming from the subwoofer appears to be non-directional. As a result, the subwoofer can be positioned in the room very flexibly without affecting the directionality of the other loudspeakers. Usually, 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. For practical purposes, there should be no obstructions between the front of the subwoofer (speaker cover) and the listener.

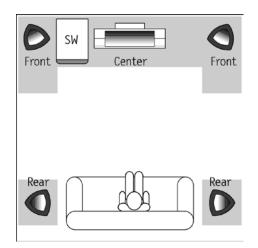
We also recommend leaving at least 15 cm of space behind, above and to the sides of the sub-woofer cabinet. This will ensure an unobstructed bass response from the cabinet's rear bass reflex port, as well as sufficient cooling for the built-in amplifier.



5. Speaker positions in the 5.1 configuration

Rear speaker placement option A

Place the rear speakers to the left and right of the listening spot. The rear speakers should be positioned at least 1.00 m away from the listener. If they are any closer, make sure that the front of the speakers is not directly pointed at the listener but into the room, angled towards the TV/screen or towards the rear wall.

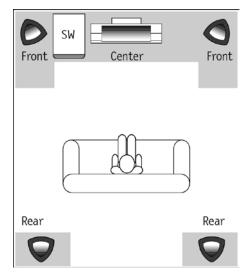


We recommend you place the rear speakers somewhere in the grey rear area.

Figure: Speaker placement option A

Rear speaker placement option B

Alternatively, you can place the rear speakers behind the listening spot, left and right respectively. The rear speakers should be positioned at least 1.00 m away from the listener. If this is not practical, make sure that the front of the speakers is not directly pointed at the listener but into the room, angled slightly towards the side walls.



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

Figure: Speaker placement option B

6. Connecting the loudspeakers

You can set up your LT 6 THX Select with Active Subwoofer loudspeaker system with any standard 5.1/6.1/7.1 AV receiver or amplifier.

To connect the M 7100 SW THX Select subwoofer to the receiver/amplifier, use either a mono or stereo cinch cable. If your AV receiver only features a mono Sub Out, you will need a Y adapter to run a stereo cable from it. Teufel offers a Y adapter as an additional accessory for this system. The advantage of running a signal to both of the subwoofer's line inputs is that this raises the subwoofer's output by +3 dB.

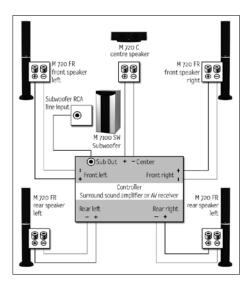


Figure: Audio connection diagram

For even more bass, you can use the subwoofer's stereo line output to daisy-chain the sub channel through to a second active subwoofer.

The satellite speakers (M 720 FR THX Select and M 720 C THX Select) are passive and require an amplified signal. A connection panel with speaker terminals is provided on the back of each speaker.

Connect the M 720 FR column speakers to the respective channel outputs on your receiver/amplifier using audio speaker cables. We recommend using cables with a minimum core diameter of 2 x 2.5 sqmm. For longer cable distances (10 m or higher), the cable core diameter should be 2 x 4 sqmm.

The M 7100 SW THX Select subwoofer provides a range of connections and control on its rear panel. These are described below:



Figure: M 7100 SW THX Select rear panel (detail view)

1 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 1/4. While the AV receiver is outputting its white noise setup signal, slowly turn up the subwoofer level to the desired volume.

2 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. 8/9 (grey area of drawing), set the phase to 0°. With other setups, the 180° setting may produce better results.

3 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 80 Hz and turn the subwoofer's frequency control to maximum (hard right).

4 Auto ON

With the switch set to "AUTO ON", the subwoofer is in automatic triggering mode. This means that the-

6. Connecting the loudspeakers

subwoofer only activates once it detects a signal at its line input. After 20 minutes of inactivity, the subwoofer automatically switches itself off again. When the switch is set to "ON", automatic triggering is disabled, i.e., the subwoofer is permanently on—or permanently off, if the mains power switch is off.

6 THX

If you are running a surround sound signal with a fixed THX crossover frequency, set this switch to "THX".

If you are running the subwoofer off a conventional stereo amplifier, set the switch to "Variable Frequency Control", which lets you select an appropriate crossover frequency.

6 Line Input/Output

Connect the AV receiver's "Sub Out" to the subwoofer's "Line Input" using a mono or stereo cinch cable. With the "Line Output", you can daisychain a second subwoofer into your system for added bass or to compensate for resonant frequencies in the room.

7 High Level Input/Output

Use these speaker sockets to connect the subwoofer to a conventional stereo amplifier without a dedicated subwoofer output. Do not connect anything here if you are using a multi-channel AV receiver with a Sub Out.

8 Power

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

Note: The mains power fuse is located underneath the mains power switch.

7. Setup and configuration of the AV receiver

To take full advantage of your LT 6 THX Select System with M 7100 Active Subwoofer, set the satellite speakers to "small" or "normal" (not "large") in the "Speaker Setup" section of your AV receiver. This ensures that the speakers receive the right amount of signal, and that the subwoofer and

front speakers have matching volumes. Also in the receiver's "Speaker Setup" section (Bass Management/Speaker Management), make sure the subwoofer is set to "On". Set the crossover frequency for the LT 6 to 80 Hz.

The subwoofer is not working

If the Power LED or display of the subwoofer does not light up, replace the fuse with a fuse of equal rating.

If the Power LED lights up, set the subwoofer volume level to "Min.", unplug the subwoofer cinch cable from the amplifier, turn up the volume slightly and touch the tip of the cinch 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:

- The subwoofer is connected to a different electrical circuit than the other components. Make sure that all 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 disconnect 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.
- 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 cinch cable from the receiver to see whether the hum is caused by one of the other connected components.

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 alcoholbased cleaning products. If you need to clean a speaker membrane, do so very carefully using a dry cloth.



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

Lautsprecher Teufel GmbH

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