

Technical description and operating instructions



Ultima 60

Stereo column speakers
with bi-wiring/bi-amping

Teufel

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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.

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Original packaging

In case you choose to take advantage of the eight week right of return you must keep the packaging. We can only accept loudspeaker returns 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 and/or batch number

Found on the back of the device, e. g. serial number: UL 04007480121A

Many thanks for your support!

Contact

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

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Warranty conditions

12 year warranty for loudspeakers from date of purchase. Covers materials and workmanship, excludes damage caused by improper use or electrical or mechanical overload. Proof of warranty is the original of our invoice. This warranty applies solely to loudspeakers, amplifiers and electronics purchased from Teufel by an end user for private use. The warranty is not valid for loudspeakers, amplifiers and electronics which pass to

an end user via a third party merchant. In the case of a private re-sale of Teufel products the warranty may be transferred to the purchaser as long as the original proof of purchase is also passed on to the purchaser.

Returns

Teufel provides the right to exchange or return within eight weeks with refund of the purchase price paid. Return of individual components sold as a package is only possible if these components are also sold individually by Lautsprecher Teufel. In the case of the return of one or more individual components the package price reduction offered by Lautsprecher Teufel on all components in a package no longer applies. The amount refunded to the customer for the components returned will therefore only be the difference between the package price and the purchase price of the individual parts. The economic result for the customer is that it is as if he/she had originally bought the remaining components at their individual prices.

Further information on the subject of returns may be found on the back of the returns form enclosed with the order or online in the support area of our website www.teufel.eu

If you need to return your goods please do not act without first speaking to Lautsprecher Teufel. We can only process or accept your returns if you give us prior notification by telephone and discuss how to proceed!

Proper use

Only use the speakers 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 speakers are intended for private use.



Before using the speakers for the first time please first 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

Signal symbols

You will find the following signal symbols in these instructions:

Danger High risk!
 Failure to observe the warning may result in injury or death.

Attention Moderate risk!
 Failure to observe the warning may result in damage to property.

! **Minor risk!**
Points to observe when handling the unit.

Safety notes

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 or pull any small parts out of or off of the appliance (e. g. control buttons or plug adapters). They could swallow them and choke. Never let children use electrical appliances when they are unattended.

Danger Danger to hearing!
 Loud noise may lead to hearing loss. Particularly if a subwoofer on full volume in »Standby/Auto On« mode is switched on by a bass beat, sudden very high sound pressure may result. This may cause physical and psychological damage. Children and pets are at particular 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 injury/damage!
 Incorrect location may result in damage.

- Never use the unit unsecured in a vehicle, on an unstable surface, on wobbly stands or furniture, with undersized wall fixings etc. The speakers could fall down or fall over and be damaged or cause injury.
 - Place the speakers in such a way that they cannot be knocked over unseen and make sure that the cables do not pose a trip hazard.
 - If mounting the speakers on the wall, make sure that the job is carried out by a professional.
 - Use only suitable wall fixings. Ensure that the walls are sound and capable of carrying the load.
 - Do not use the speakers if the housing or the connector cables are defective or if they exhibit any other visible damages.
 - Only use the unit in indoor areas.
 - Do not use the appliance in damp rooms and protect it from water drops and splashes. Ensure that no vases or other vessels filled with liquid are placed on or near the appliance to prevent the housing from being penetrated by liquid.
 - Do not place the unit near sources of heat (e. g. heaters, ovens, other heat generating equipment such as amplifiers etc.)
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Unpacking and setup

Open the boxes with care, remove the styrofoam parts and carefully lift the column speakers out of the box.



Connector cables

Due to differing customer requirements, the Ultima 60 series is shipped without connector cables. You can find suitable cables in our webshop (www.teufel.eu) in the "Accessories" area.

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).

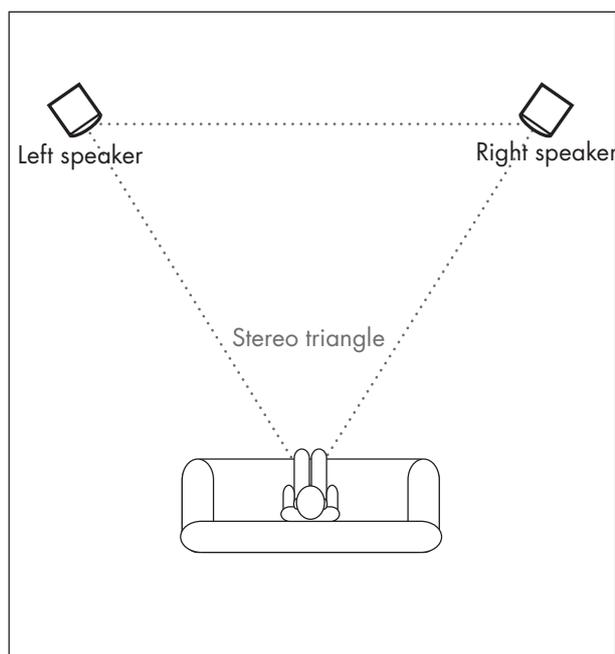
Location tips

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

The following information concerns an "ideal listening room", where the listener sits in a central position at an adequate distance in front of the speakers (see the adjacent graphic) and there are no objects between the listener and speakers (tables or the like). Unfortunately, available space, furnishing or other circumstances may not always allow for an optimum arrangement.

Modern amplifiers offer a variety of possibilities for electronically compensating losses associated with the arrangement. The following generally applies: You can always experiment on what works best in your listening room in terms of sound and appearance based on our recommendations. Let your ears (and eyes) be the judge!

The speakers should be situated to the left and right of the listener and if possible, form an equilateral triangle with the listener – the so-called stereo triangle (distance from the listener = distance between the speakers). The speakers should project sound straight into the room or be arranged slightly towards the listener.



Removing the protective grids

You can remove the protective grids from the column speakers by carefully reaching behind the protective grid and slowly pulling it off to the front.

When reattaching the grids, ensure that the installation pins slide into the corresponding holes on the column speaker.

Connecting

Danger Danger of injury/damage!



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

Connection variations

In addition to a standard connection, where every speaker column is connected to the amplifier with a cable, you can also choose the variants "bi-wiring" or "bi-amping".

Standard connection

With this connection, the Ultima 60 speakers are connected like conventional speakers with one 2-core speaker cable each. The contact bridges between the connector terminators may not be removed in the process; you can connect the cables accordingly to the top or bottom terminals.

Bi-wiring

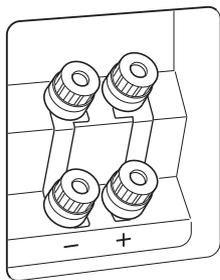
For this, the high and mid range speakers are connected with one cable and the two low range speakers are connected with a second cable. This allows you to reduce distortion with very long cables.

Bi-amping

For this, the high/mid range and low range speakers have their own amplifiers.

Connecting the cables

1. Turn off your amplifier.
2. Lay the speaker cables from your amplifier to each speaker. These cables should be high-quality double-core speaker cable with marked strands. The diameter should amount to at least 4 mm².



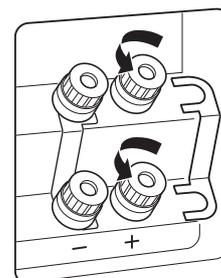
3. A connector terminal with four terminal clips is located on the back of the speakers. You can connect the speaker cables using banana plugs or directly here. We only describe the direct connection here.
4. The terminals are each marked red (+) and black (-).



Observe the correct polarity!

Connect the like coloured terminals with one another. Otherwise the sound quality will suffer. The speaker connectors of your amplifier should be marked similarly. The strands of the speaker cables are marked with different colours or forms.

5. You only have to remove the contact bridges when using bi-wiring or bi-amping: Turn the connector terminal counterclockwise until loose and then pull the contact bridges out to the side. The top terminals lead to the high range and mid range speakers, the bottom terminals lead to the low range speakers.



6. Split the cable down to approximately 30 mm on both ends and strip off approximately 10 mm of insulation on each of them. Twist the cable together so that no strands are protruding.
7. Turn the connector terminal counterclockwise until loose. Run the stripped cable into the hole that is now visible. Turn the terminal clockwise until closed. The cable has now been clamped in place.
8. Connect all cables to the column speakers this way.
9. Connect the speaker cables to your amplifier. The operating instructions of the appliance should contain notes on this.

Care and cleaning

Clean the column speakers regularly with a soft, damp microfibre cloth. Ensure that no liquid penetrates the speakers.

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.

Protecting the environment

Disposal of the unit



Old appliances may not be disposed of in the household waste!

Should the appliance no longer be capable of being used, then every consumer is required by law to dispose of old appliances separately

from their household waste e. g. at a local authority collection point. This ensures that old appliances are recycled in a professional manner and that negative consequences for the environment are prevented. For this reason, electrical appliances are marked with the shown symbol.

Technical data

Impedence	4 Ohm
Output power	RMS: 120 watts Music: 160 watts
Rec. minimum amplifier output	50 watts
Cut-off frequencies	500 Hz, 2500 Hz
Low range speakers	16.5 cm (6.5")
Mid range speakers	16.5 cm (6.5")
High range speakers	2.54 cm (1")
Volume	45 litres
Dimensions (W x H x D)	1,027 x 213 x 317 mm
Net weight	18.5 kg



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

Technical changes reserved.

Teufel

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