

sonoro

USER MANUAL

ORCHESTRA Slim Signature

English

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Document information

User manual for the device:

ORCHESTRA Slim Signature

- Read this manual carefully.
 - Follow the instructions in the accompanying safety manual.
 - If you pass on the device, also provide the accompanying safety manual.
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Manufacturer

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Germany

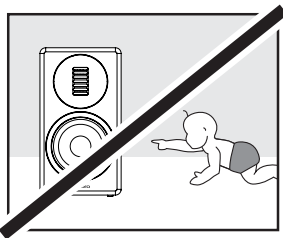
Tel. +49 2131 8834-141
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Need help?

Visit our support website for more information:

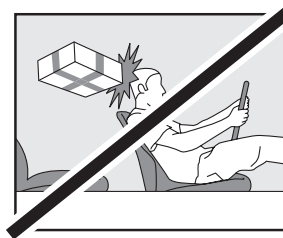
<https://sonoro.com/support>

Safety information



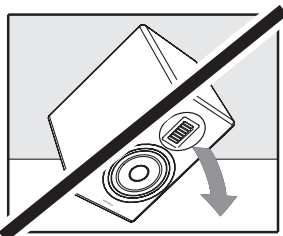
Supervision and packaging

People, including children, who cannot operate ORCHESTRA Slim Signature safely because of their physical, sensory or mental abilities must only use it under supervision. Packaging materials pose a suffocation hazard.



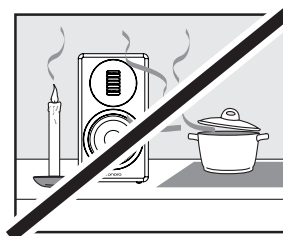
Transport in a vehicle

Secure ORCHESTRA Slim Signature in a vehicle so that it cannot endanger the occupants. Incorrect transport or shipping can damage the speakers and impair their operation.



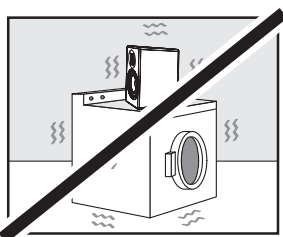
Protect the front, edges and corners

The front, edges and corners of ORCHESTRA Slim Signature are sensitive to pressure. Protect them against excessive loads. Never tilt the speakers over their edges or corners and never place them face down.



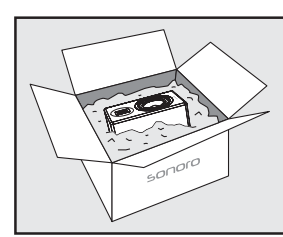
Avoid moisture and heat

Never use ORCHESTRA Slim Signature in areas with high humidity. Avoid heavy soiling, such as grease splashes and unfiltered kitchen exhaust air. Protect the speakers from liquids. Never place them on or immediately beside sources of fire or heat.



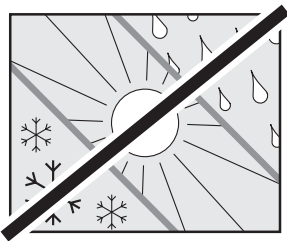
Use a stable surface

Place ORCHESTRA Slim Signature on a stable surface to prevent strong mechanical vibrations.



Transport and shipping

For transport or shipping, pack the speakers in the supplied protective sleeves and original box. Keep the original packaging for this purpose. If you no longer have the original packaging, use sufficiently sturdy, protective packaging to prevent damage to ORCHESTRA Slim Signature.

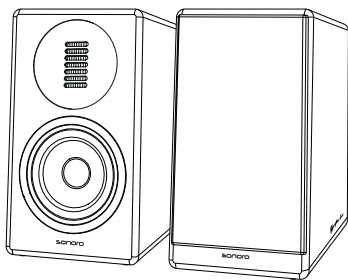


Protect against the weather

Protect ORCHESTRA Slim Signature from weather, moisture and high temperatures. Never use the speakers outdoors and avoid intense sunlight and UV radiation.

Scope of delivery

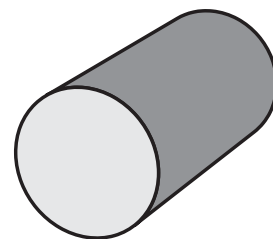
Your ORCHESTRA Slim Signature is supplied with:



1 pair of speakers



2 speaker grilles



2 bass reflex port plugs

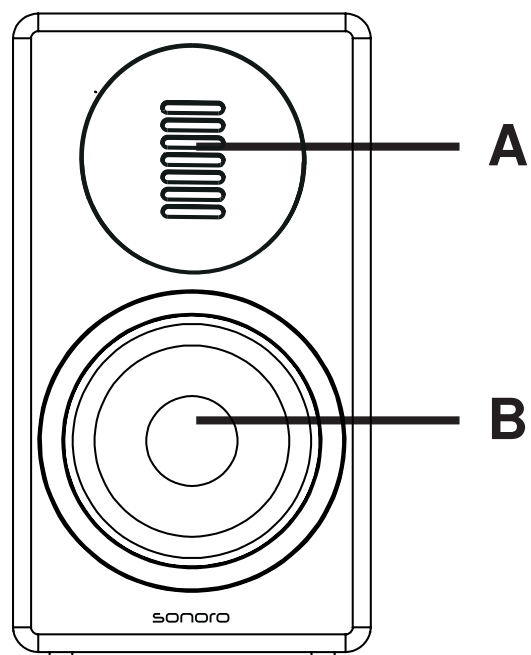
Check the delivery

Check the speakers and all parts for completeness and visible damage. Do not use damaged speakers. If parts are damaged or missing, contact your dealer or sonoro customer service.

Keep the supplied protective sleeves and original box for future transport or shipping.

Continue to Unpacking the speakers.

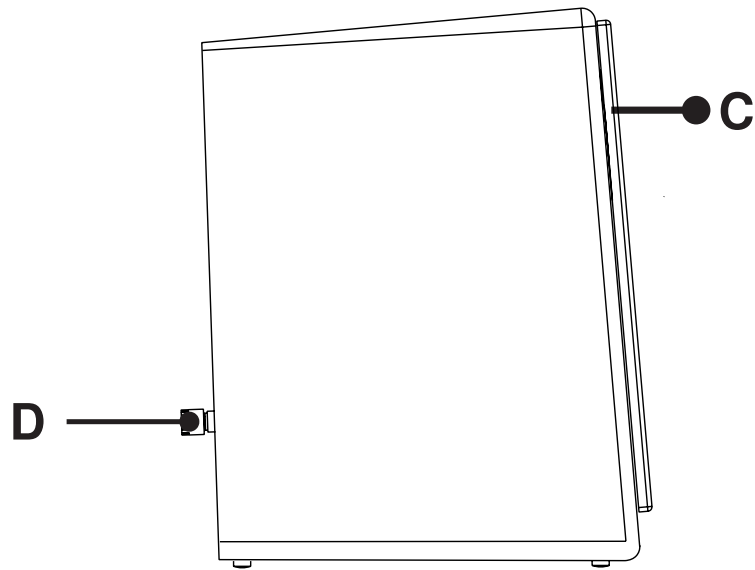
Front view



A AMT Tweeter

B Midwoofer

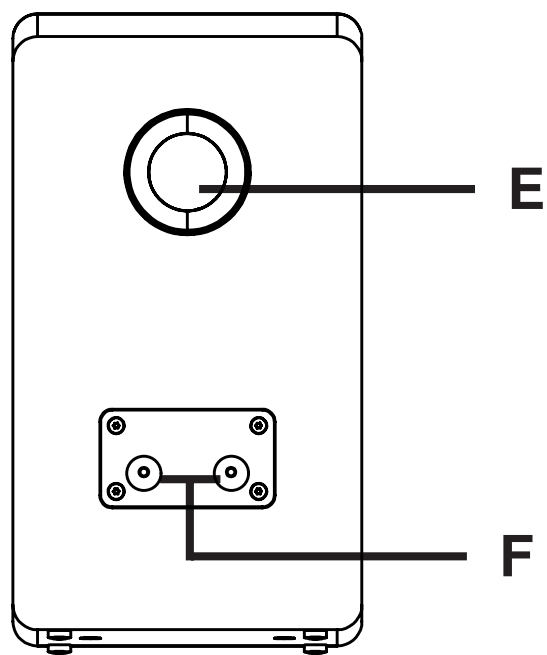
Side view



C Magnetically held speaker grille

D Speaker terminals (– / +)

Rear view



E Bass reflex port

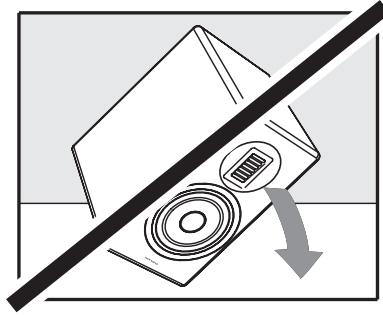
F Speaker terminals (– / +)

Technical data

Type	2-way hi-fi speaker
Dimensions (W × D × H)	approx. 180 × 260 × 326 mm
Weight	approx. 7.2 kg per speaker
Ambient temperature	0 °C to +40 °C
Cabinet	High-density fibreboard (HDF), composite damping
Recommended amplifier power	> 50 W
Woofer	5.25" Kevlar-reinforced composite driver with die-cast chassis
Tweeter	Air Motion Transformer (AMT), approx. 85 cm ² effective diaphragm area, neodymium magnet
Load impedance	4 Ω
Frequency range	49 Hz to 25 kHz at –6 dB
Sensitivity	85 dB SPL (2.83 V RMS, 1 m)
Crossover frequency	2800 Hz
Specifications are subject to change without notice.	

Unpacking the speakers

Read the Safety information before unpacking. The front, edges and corners of the speakers are sensitive to pressure.



Unpack and inspect

1. Remove the speakers and individual parts from the packaging.
2. Check all parts for damage. Do not use damaged speakers; contact your dealer or sonoro customer service.
3. Check that the Scope of delivery is complete.
4. Place the speakers in a suitable, safe location.

! Notice

Do not touch or press the midwoofer or tweeter on the front. This can damage the speakers.

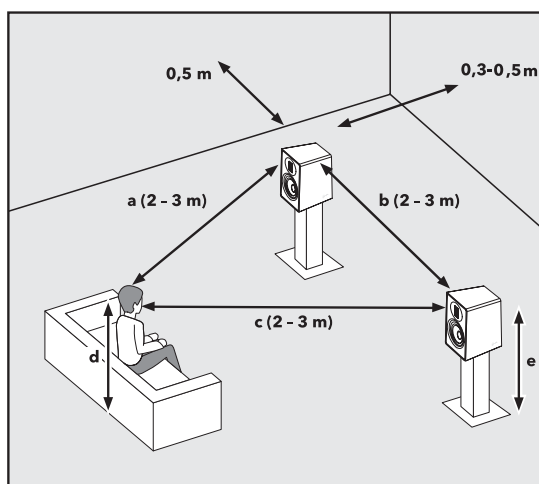
Before placing the speakers on natural wood surfaces, check that the surfaces are suitable. Staining may occur on oiled or waxed surfaces.

Keep the original packaging and protective sleeves for Transport and shipping.

Continue to Positioning the speakers.

Positioning the speakers

Place the speakers on a stable surface. Avoid strong mechanical vibrations and observe the Safety information.



Align the speakers and listening position

- Arrange the speakers and your preferred listening position to form a triangle with equal sides: **a = b = c**.
- The illustration shows distances of **2 to 3 m** between the speakers and from each speaker to the listening position.
- The illustration shows wall distances of **0.5 m** and **0.3 to 0.5 m**.
- The tweeters should be at the same height as your ears: **d = e**.

Sound when positioned close to a wall

If the bass sounds too strong near the rear wall or in a shelving unit, you can insert the bass reflex plugs.

Place the speakers only in dry indoor spaces within the permitted ambient temperature range of **0 °C to +40 °C**. Protect them from weather, liquids, direct sunlight, UV radiation, fire and heat sources.

Continue to Connecting the amplifier.

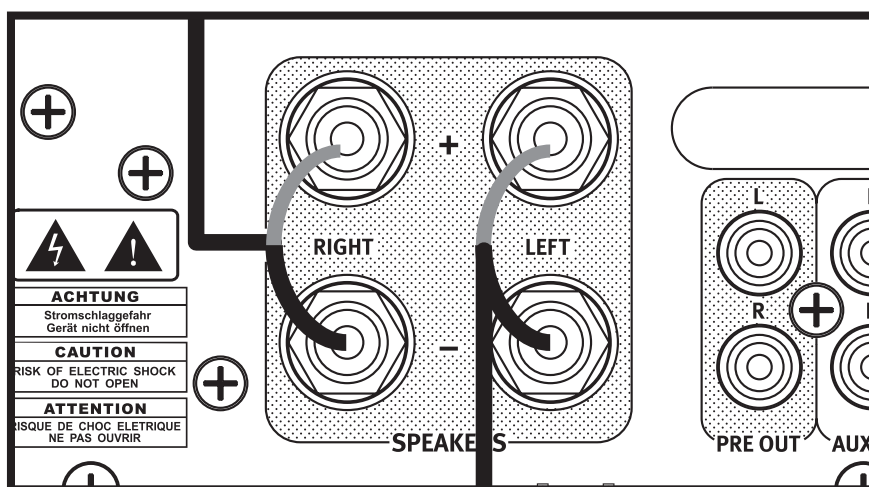
Connecting the amplifier

! Notice

Switch off the amplifier before connecting the speakers to prevent short circuits.

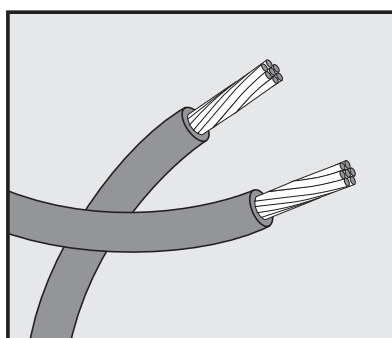
Connect the right and left channels

1. Connect the right speaker to the amplifier's right channel.
2. Connect the left speaker to the amplifier's left channel.
3. Observe the correct polarity: connect **+** to **+** and **-** to **-**.



Prevent short circuits

- The bare wires of the speaker cables must not touch each other.
- The bare wires must not touch the backs of the speakers or their screws.



Check the connections

Before use, check that all cables are connected correctly and securely. Check the positive and negative terminals on both speakers again. See Technical data for load impedance and recommended amplifier power.

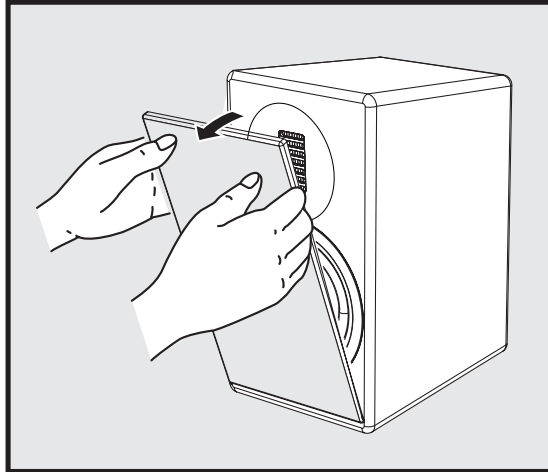
If there is no sound or playback is faulty, follow Troubleshooting.

Removing the speaker grille

The speaker grilles are held magnetically. You can use the speakers with or without the grilles.

Remove the grille

Remove the magnetically held grille from the front as illustrated.



! Notice

Do not touch or press the midwoofer or tweeter when removing the grille.

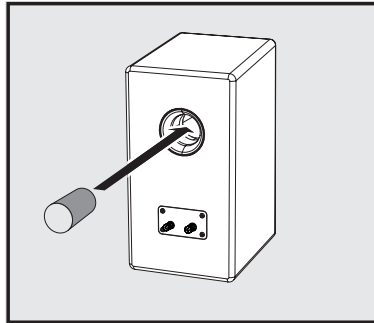
For the positions of the tweeter, midwoofer and grille, see Device views and connections.

Inserting the bass reflex plugs

If the speakers are close to a rear wall or in a shelving unit, the bass may sound too strong. Inserting the supplied foam plugs into the bass reflex ports can improve the sound in this case.

Insert the plugs

Insert one foam plug into the bass reflex port on the back of each speaker as illustrated.



! Notice

Never push the plugs completely into the bass reflex ports.

Also check the speaker positioning.

Cleaning the speakers

Fingerprints and light soiling

Clean the outside of the cabinets with a soft, dry cloth.

Heavy soiling

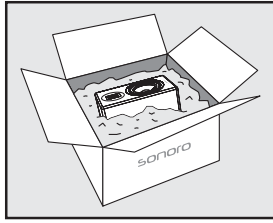
Clean the outside of the cabinets with a slightly damp cloth, then dry with a soft, dry cloth. Other cleaning methods can damage the speakers.

Protect the speaker drivers

! Notice

Clean only the outside surfaces of the cabinets. Do not attempt to clean the speaker drivers, as this can damage them.

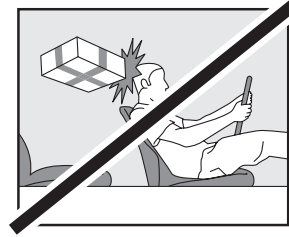
Transport and shipping



Packaging for transport and shipping

For transport or shipping, pack the speakers in the supplied protective sleeves and original box. Keep the original packaging for this purpose.

If you no longer have the original packaging, use sufficiently sturdy, protective packaging to prevent damage to ORCHESTRA Slim Signature.



Transport in a vehicle

Secure ORCHESTRA Slim Signature in a vehicle so that it cannot endanger the occupants. Incorrect transport or shipping can damage the speakers and impair their operation.

Protect the front, edges and corners

The front, edges and corners of ORCHESTRA Slim Signature are sensitive to pressure. Protect them against excessive loads. Never tilt the speakers over their edges or corners and never place them face down.

Troubleshooting

A malfunction does not necessarily indicate a speaker defect. Check the following possible causes.

No sound

Possible cause: amplifier fault

Connect a speaker known to work to the amplifier outputs. If there is still no sound, check that all electronics are switched on, the signal path is correct, the source is active and the volume is set.

Possible cause: speaker cables connected incorrectly

Check that all cables between the amplifier and speakers are connected correctly.

Weak bass response

Possible cause: speaker cables connected with reversed polarity

Check the connections: the amplifier's positive terminal (+) must connect to the speaker's positive terminal (+), and negative (–) to negative (–).

Constant noise, humming or buzzing

- **Poor amplifier grounding:** Check and correct the amplifier's grounding problem.
- **Faulty cable:** Replace it with a working cable.

Interrupted playback, crackling or distortion

Possible cause: speaker cables connected incorrectly

Check all connections on the amplifier and speakers to make sure they are correct and secure.

Switch off the amplifier before changing the speaker wiring. See Connecting the amplifier.

If you cannot resolve the problem, contact sonoro customer service.

Disposal at the end of service life



Do not dispose of in household waste. Devices bearing this symbol must not be disposed of in household waste. Take them to a collection point for recycling electrical and electronic equipment.

Information about disposing of old equipment is available from your local authority, local waste disposal company or the shop where you purchased the device.

Correct disposal of old equipment prevents environmental damage and protects your health.

Warranty

The following conditions apply to warranty claims, without restricting your statutory rights:

- Warranty claims can only be made within a maximum period of **5 years (1 year in North America and Australia)** from the date of purchase.
- During the warranty period, sonoro audio GmbH will, at its discretion, repair or replace the ORCHESTRA Slim Signature free of charge to remedy any defects resulting from material or manufacturing faults.
- For warranty enquiries, please contact our customer service. Contact details are available under Document information or at sonoro.com.
- Repair or replacement of the ORCHESTRA Slim Signature does not start a new warranty period. The warranty period remains 5 years, or 1 year in North America and Australia, from the date of purchase.
- The warranty excludes damage caused by improper use, normal wear and consumption, and defects that have only a minor effect on the value or usability of the ORCHESTRA Slim Signature. The warranty is also void if repairs or modifications are carried out by anyone other than our authorised service centre.
- This warranty does not restrict or exclude the buyer's right to exercise statutory remedies for defects free of charge.

Declaration of conformity

Manufacturer:

sonoro audio GmbH
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Germany

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Fax +49 2131 7517-599
support@sonoro.com



ORCHESTRA Slim Signature (SO-1122)

For conformity documents for this model, please contact sonoro support. Please provide the product name and model number SO-1122.

support.sonoro.com

Request the declaration of conformity by email