Operating instructions

MAESTRO
Quantum

sonoro

GERMAN AUDIO DESIGN
www.sonoro.com

Document information

Operating instructions for the device:
All-In-One Audio Music System MAESTRO Quantum

- ▶ Read these instructions carefully.
- ▶ Keep the instructions accessible.
- ▶ Observe the instructions in the corresponding safety manual.
- ▶ When passing on the device, also hand over these instructions and the associated safety manual.

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Manufacturer:
sonoro audio GmbH
Hammer Landstraße 45
41460 Neuss
Germany

Tel. +49 2131 8834-141
Fax +49 2131 7517-599
support@sonoro.com

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1. Safety information

1.1 Intended use

The device is suitable for the following:

- Operation of external speakers with an impedance of 4–16 Ω.
- For playing analogue and digital radio stations that can be accessed via antenna.
- For playing streaming services, radio stations and podcast programmes accessible via the Internet.
- For playing from devices and to devices paired via Bluetooth®.
- For playing from external devices connected via the following inputs:
  - AUX 1
  - AUX 2
  - Phono
  - Optical
  - Coaxial
  - HDMI
  - USB
- For playing from CD's in the formats audio CD and MP3/WMA CD.
- For playing from media servers or streaming applications that are on the same network.
- For playing from sources or to devices connected via Smart Home systems.
- For charging external devices connected via the USB input.

The device is intended exclusively for use in private households.

Only use the device if it is in faultless technical condition and has been set up correctly. Any other use is considered contrary to the intended use.

Intended use also includes reading and observing these instructions and the associated safety manual.

1.2 General safety instructions

⚠ WARNING!

Danger due to non-observance of the safety instructions!

The associated safety manual contains important information for the safe use of the device. Special attention is drawn to possible dangers. Failure to observe these may result in serious injury or damage to the device.

- ▶ Read the associated safety manual and these instructions carefully.
- ▶ Follow the safety instructions.
- ▶ Store the documents in an accessible location.

Use of the device is prohibited in the following cases:

- In case of damage to the device or individual components.
- In the event of unauthorised conversions or modifications to the device.
- After improper repairs.

The manufacturer accepts no liability for damage in the following cases:

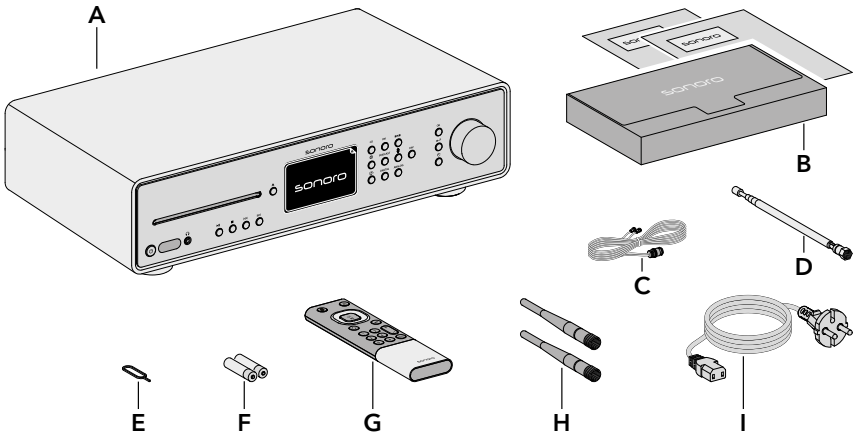
- If these instructions are not followed.
- In case of improper use.
- In case of improper handling.
- In the case of unauthorised conversions or modifications.

2. Product information

2.1 Equipment

Sound	• High-efficiency Class-D Hypex amplifiers • Nominal power 2 x 180 Watt on 4 Ω, 2 x 110 Watt on 8 Ω • Operation of external speakers with impedance of 4 – 16 Ω • Equaliser function for adjusting bass, treble and balance, with presets for sonoro speakers • Adaptive loudness and dynamic bass function • Dirac Live sound optimisation
Display	High-resolution 4" TFT colour display with automatic brightness adjustment.
FM / DAB+ radio Station scan	Automatic and manual.
Sleep timer	Switch-off function with precise setting to the minute (5 – 90 min).
Favourites	A total of 99 memory locations.
Operation	• Directly on the device, via remote control, via the sonoro audio app or via the sonoro web client • Smart Home ready
Music transmission	• FM and Digital radio DAB+, internet radio, podcast • CD player with repeat and shuffle function • Bluetooth® (bidirectional), Qualcomm® aptX™ / aptX™ HD audio, Apple AirPlay, Chromecast built-in • Amazon Music™, Deezer™, Napster™, Qobuz™, Spotify Connect™, TIDAL Connect™ • DLNA, UPnP • Phono pre-amplifier for MM cartridge
Connections	• HDMI ARC / eARC (for TV / PCM only) • Optical and coaxial digital inputs and outputs • Analogue AUX IN (2 x), LINE-OUT, Stereo PRE-OUT and Phono • USB-A, USB-C (charging and playback function) • Headphones (3.5 mm jack) • Loudspeaker screw terminals

2.2 Scope of delivery



A MAESTRO Quantum

B Document box with Quick Start Guide and safety manual

C FM/DAB aerial

D FM/DAB telescopic antenna

E Battery compartment opener

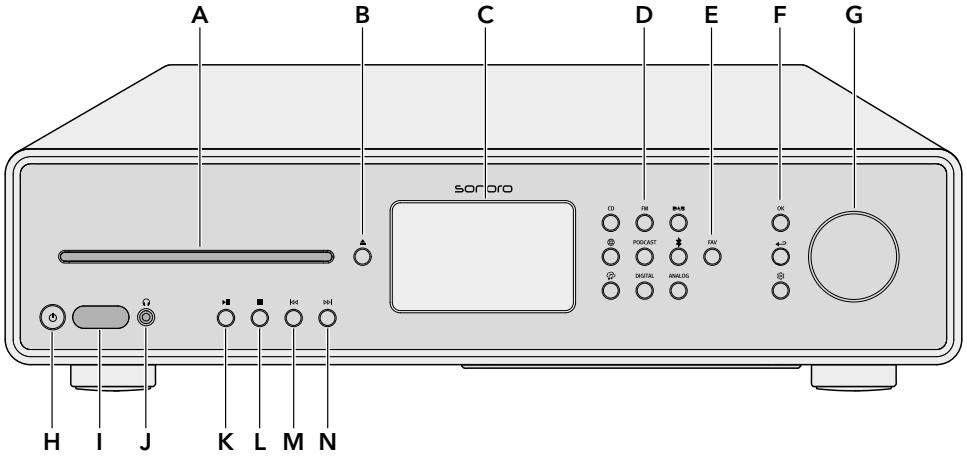
F 2 x AAA batteries (IEC LR03)

G Remote control

H 2 x Wi-Fi antennas

I Power cable

2.3 Front of device



A CD slot

B CD eject button (⏏)

C Display

D Source buttons

- CD (**CD**)
- FM Radio (**FM**)
- DAB Radio (**DAB**)
- Internet Radio (🌐)
- Podcast (**PODCAST**)
- Bluetooth® (ᛒ)
- Streaming Music (☁)
- Digital (**DIGITAL**)
- Analogue (**ANALOG**)

E Favorites button (**FAV**)

F Navigation buttons

- OK button (**OK**)
- Back button (↩)
- Main menu button (⚙)

G Rotary control

H Standby button (⏻)

I Infrared and light sensor

J Headphone jack (🎧)

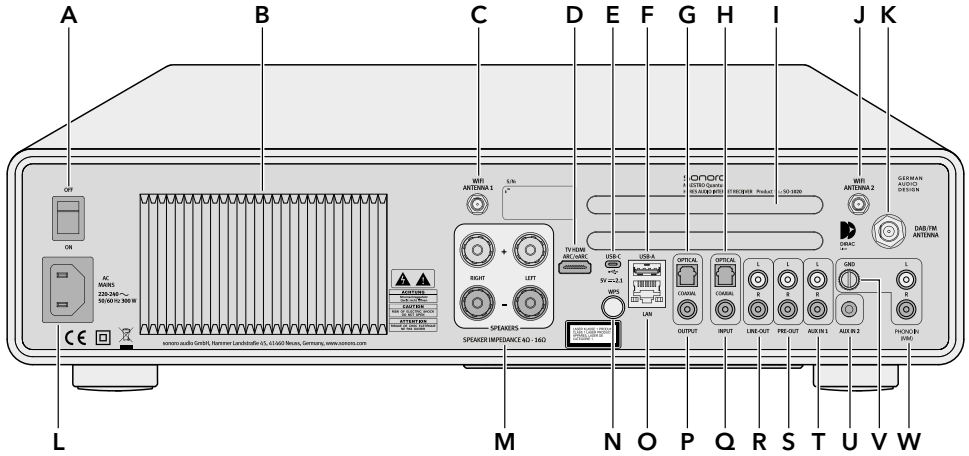
K Play / pause button (⏯)

L Stop button (■)

M Previous title / station button (⏮)

N Next title / station button (⏭)

2.4 Rear of device



A Main ON/OFF switch

B Heat sink

C Socket for Wi-Fi antenna 1

D Television HDMI ARC / eARC connection

E USB-C connection

F USB-A connection

G Optical output

H Optical input

I Ventilation openings

J Socket for Wi-Fi antenna 2

K Socket for FM / DAB aerial antenna / telescopic antenna

L Power cable socket

M Speaker connections

N WPS button

O LAN socket RJ45

P Coaxial output

Q Coaxial input

R LINE OUT output (RCA)

S PRE OUT output (RCA)

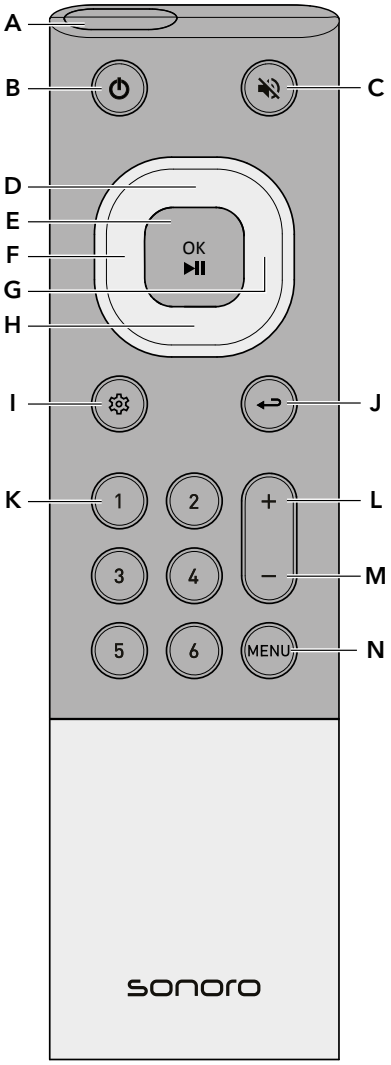
T AUX 1 input (RCA)

U AUX 2 input (3.5 mm)

V Phono grounding (GND)

W Phono input

2.5 Remote control



A Infrared sensor
B Standby button
C Mute / Unmute button
D Top / Up button
E OK / Play / Pause button
F Left / Previous title / Station button
G Right / Next title / Station button
H Bottom / Down button
I Main menu button
J Back button
K 6 favorites buttons
L Volume up button
M Volume down button
N MENU button

On the back:

- Battery compartment with lock opening

2.6 Display icons

- The Wi-Fi connection is established (with display of signal strength).
- The Wi-Fi connection is interrupted.
- The Wi-Fi connection is interrupted and is in configuration mode (“SoftAP”).
- The LAN network is connected.
- The LAN network is disconnected.
- Bluetooth is in searching / discoverable mode.
- An audio Bluetooth device is connected.
- A Bluetooth headset is connected.
- The radio station / music track is in the favorites list.
- The radio signal is being received (with display of the signal strength).
- The playback mode “Repeat all” is active.
- The playback mode “Repeat one” is active.
- The playback mode “Repeat folder” is active.
- Shuffle is active.
- CD Resume is active.
- The sleep timer is active.
- The alarm is active.
- The snooze function is activating.
- The headphone is plugged in. (Only support 1 headphone)
- The sound output is muted.
- The streaming playback is loading.
- The streaming playback is buffering.
- Playback is playing.
- Playback paused.
- Playback stopped.

2.7 Technical data

Dimensions	Approx. 452 x 279 x 120 mm (W x D x H)
Weight	Approx. 6.2 kg
Ambient temperature	0 °C to +40 °C
Load impedance	4–16 Ω
Nominal power	1 KHz, THD+N < 0.1 % (AES17) - 2 x 180 Watt on 4 Ω, 2 x 110 Watt on 8 Ω
Transmission range	10 Hz–42 KHz
Display	4" TFT colour display (800 x 480 px)
FM	Frequency range 87.50 MHz–108.00 MHz
DAB/DAB+	Band III, 174.928 MHz–239.200 MHz
Internet radio	Over 50,000 stations worldwide
Favorites	Total of 99 for FM Radio / DAB Radio / Internet Radio / Podcasts / Amazon Music / TIDAL / Deezer / Qobuz / My Music / Spotify (max. 20)
Supported CD formats	• CD-DA (12 cm), CD-R, CD-RW, • MP3 (max. 48 kHz, 320 kbps, 16 bit), • WMA (DRM not supported, max. 48 kHz, 320 kbps, 16 bit)
USB	Type C, type A - charging power 5 V DC, max. 2.1 A, File system formats for playback: FAT, FAT 32, NTFS, EXT 2/3/4
Sensitivity AUX-IN	• AUX-IN 1 (RCA socket) 2000 mV / 1000 mV / 500 mV, • AUX-IN 2 (3.5 mm) 300 mV
Digital inputs	• Optical In (TOSLINK) - Linear PCM, STEREO, sampling rate 44.1 kHz ~ 192 kHz, bit depth 24 bit • Coaxial In (S / PDIF) - Linear PCM, STEREO, sampling rate 44.1 kHz ~ 192 kHz, bit depth 24 bit
HDMI	HDMI eARC (television) - PCM, STEREO, sampling rate max. 192 KHz, Bit depth 16 bit, 24 bit
Headphone impedance	16–32 Ω
LINE OUT (RCA)	2 Vrms
HDMI	HDMI ARC / eARC (television) - PCM, STEREO, sampling rate max. 192 KHz, bit depth 16 bit, 24 bit

LINE OUT (RCA)	2 Vrms
Digital outputs	• Optical Out (TOSLINK) - Linear PCM, STEREO, sampling rate 96 kHz, bit depth 24 bit • Coaxial Out (S/PDIF) - Linear PCM, STEREO, sampling rate 96 kHz, bit depth 24 bit
Pre-amplifier output	Max. 2 Volt (RMS) / 1.5 k Ω
Streaming profile	Bluetooth®, Airplay, Chromecast built-in, compatible with UPnP, Roon Ready
Supported network	IIEEE 802.11 a/b/g/n/ac/ax 2 x 2 MIMO, 2.412 GHz–2.472 GHz / 5.18 GHz–5.70 GHz
Transmitted power	16.5 dBm (2.4 GHz), 19.4 dBm (5 GHz)
Network LAN	Ethernet, 10BASE-T/100BASE-TX
Encryption	WEP, WPA2 (PSK), WPA3, WPS
Bluetooth®	Version 5.0, AVRCP v1.6 profile, A2DP 1.3.1, 2.402 GHz–2.480 GHz, SBC, AAC, aptX, aptX HD, range approx. 10 m
Transmitted power	BT 12,9 dBm, BLE 10,0 dBm
Supported audio formats	• WAV, FLAC & AIFF - max. 24 bit / 192 kHz • ALAC (Apple Lossless Audio Codec) - max. 24 bit / 192 kHz • AAC - max. 48 kHz, 320 kbps, 16 bit • MP3 - max. 48 kHz, 320 kbps, 16 bit • AAC (LC / HE-AAC / (v2) – max. 48 kHz, 320 kbps, 16 bit • OGG Vobis and WMA - max. 48 kHz, 320 kbps, 16 bit • M4A - max. 48 kHz, 320 kbps, 16 bit
Supported playlist formats	ASX (Microsoft®), M3U, PLS / WPL
Remote control batteries	2 x LR03 (AAA), 1,5 V
Supply voltage	AC 220–240 V, 50/60 Hz
Deep sleep Standby consumption	< 0,5 W
Network standby power consumption	< 2,0 W

Specifications are subject to change without notice.

3. Setting up

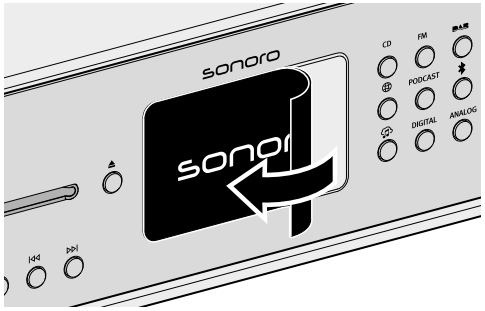
The instructions in the corresponding safety manual must be observed.

3.1 Unpacking the device

- ▶ Carefully unpack the device and all enclosed parts.
- ▶ Place the device in a suitable location.
- ▶ Check the device and all parts included for damage.
- ▶ Check the scope of delivery for completeness.
  ➔ See chapter "2.2 Scope of delivery" (page 9).
- ▶ If possible, keep the packaging.

If parts are missing or damaged:

- ▶ Contact your dealer or sonoro customer service immediately.



- ▶ Remove the protective film from the display.

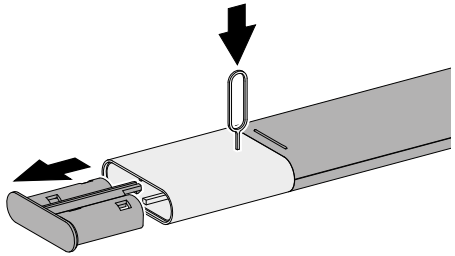
3.2 Positioning the device

The following points must be observed when setting up the device:

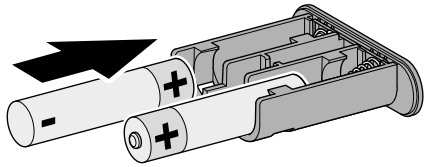
- There must be no interfering objects or equipment in the vicinity (e.g. heat sources, metal, water, steam).
- The mains socket used must be accessible at all times.
- Stains may appear on natural wood with oiled or waxed surfaces.

- ▶ Choose a suitable location for the device.

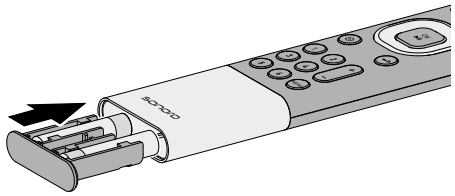
3.3 Preparing the remote control



- ▶ Open the battery compartment.



- ▶ Insert two batteries (AAA IEC LR03) correctly.



- ▶ Close the battery compartment.

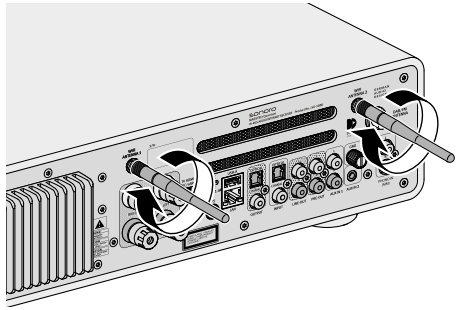
3.4 Connecting antennas

For reception in the wireless network, connect the two Wi-Fi antennas.

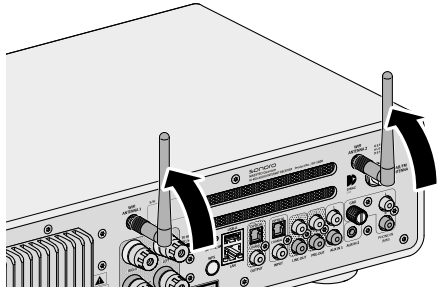
An aerial and a telescopic antenna are available for radio reception (FM/DAB).

Alternatively, the device can be connected directly to a connection on the house aerial using a suitable aerial cable (F connector not included in the scope of delivery).

3.4.1 Wi-Fi-antennas

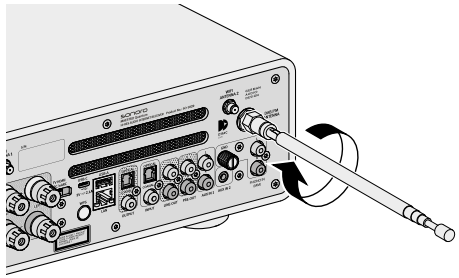


▶ Screw on the antennas.

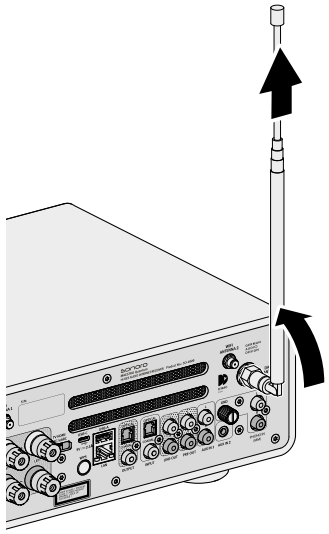


▶ Point the antennas upwards.

3.4.2 FM/DAB telescopic antenna



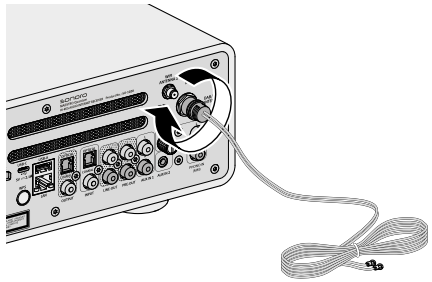
▶ Screw on the antenna.



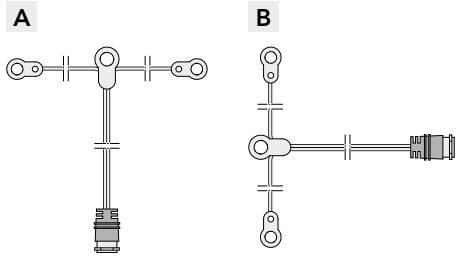
▶ Pull out the antenna completely.

▶ Align the antenna so that the reception is optimal.

3.4.3 FM/DAB aerial



- Screw on the antenna.



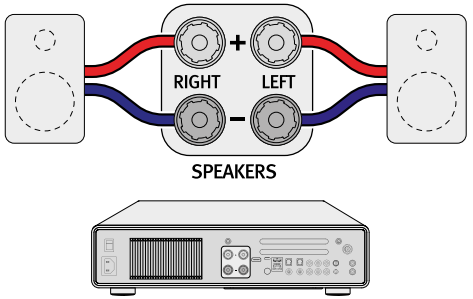
- Unfold the antenna so that both ends and the cable form a "T".
- Align the antenna so that the reception is optimal.
  - A Recommendation for FM radio reception: Both ends horizontal.
  - B Recommendation for DAB radio reception: Both ends vertical.

3.5 Connecting loudspeakers

⚠ WARNING!

- Danger from electric shock!
- Touching live parts can cause electric shock, burns or death.
- Disconnect the mains plug from the socket before connecting the speakers.
- Make sure that the power supply is disconnected and remains disconnected.

- Use speakers with an impedance of 4–16 Ω.

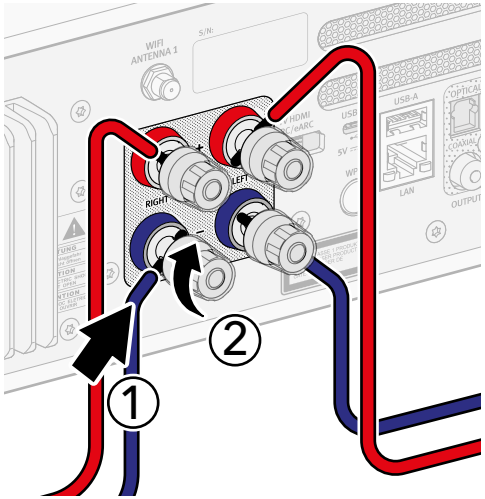


- Make sure that the speaker cables are correctly assigned to the connections on the unit. Note the orientation (right/left) and the polarity (+/–).

3.5.1 Direct connection

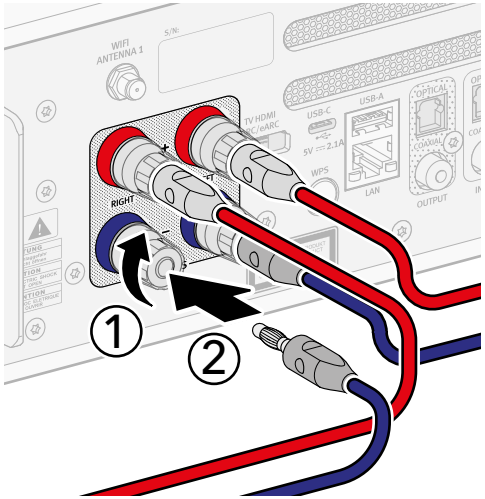
The following points must be observed for the direct connection of the loudspeaker cables:

- Make sure that the bare wires of the cables do not touch each other.
- Make sure that the bare wires of the cable do not come into contact with the back and screws of the unit.
- Remove approx. 1 cm of the insulation at the end of each cable.
- Twist the bare wires of the cable tightly together.



- ▶ Loosen the corresponding knob and insert the bare wire into the opening.
- ▶ Tighten the knob again to secure the wire.

3.5.2 Connection with banana plug



- ▶ Turn the knob on the unit tight.
- ▶ Insert the banana plug into the appropriate connection socket.

3.6 Connecting external units (optional)

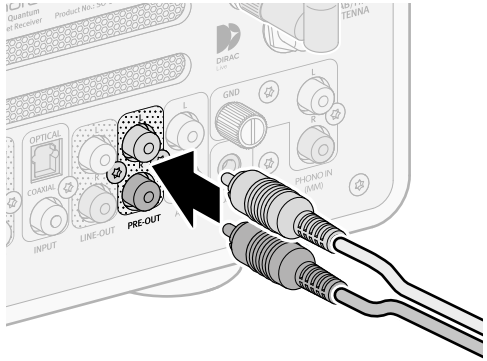
3.6.1 PRE-OUT

The pre-amplifier output "PRE-OUT" enables the connection of the following external devices:

- One active subwoofer (2.1 system)
- Two active subwoofers (2.2 system)
- Further power amplifier
- Mixing desk
- Recording device

The instructions for the external device must be observed.

Settings on the unit for volume and sound also affect the signal of the pre-amplifier output.



- ▶ Insert the plugs into the appropriate connection sockets.

The unit and subwoofer must be set to the same high-pass filter frequency.

➔ See chapter "4.4.2 Sound settings" (page 35).

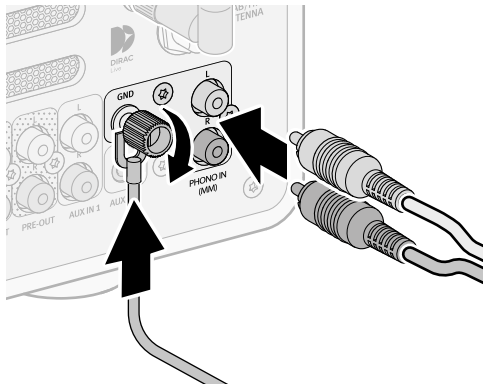
3.6.2 PHONO-IN (MM)

The "PHONO IN (MM)" connection allows you to connect a turntable with an MM cartridge ("moving magnet").

The instructions for the turntable must be followed.

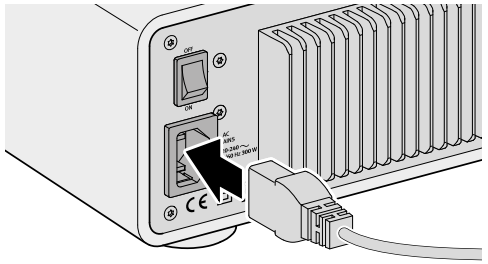
Observe the following points:

- The turntable and, if present, a connected pre-amplifier must be switched off when establishing the connection.
- The GND connection is used to connect the earth cable from the turntable to reduce disturbing noises (e.g. humming, hissing).
- Depending on the turntable, disturbing noises may increase when the earth cable is connected. In this case, remove the earth cable.
- The GND connection is not a safety earth.



- ▶ Insert the plugs into the appropriate connection sockets.
- ▶ Connect the earth cable.

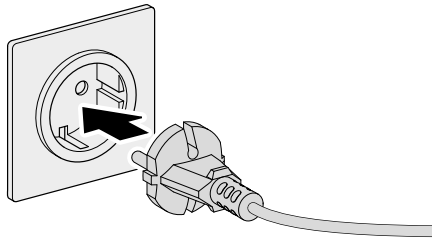
3.7 Establishing a power supply



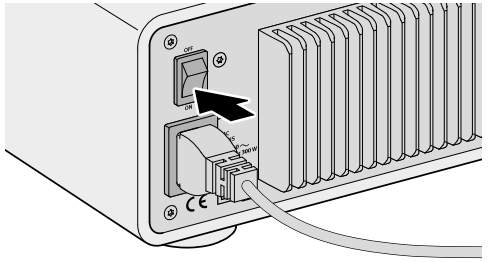
- ▶ Plug the power cable into the device.

⚠ WARNING!

- ▶ Danger from electric shock!
- ▶ The polarity of the mains plug may affect the sound quality. A red marking is applied to the mains plug to indicate the live side (phase). The corresponding side on the socket can be determined with the help of a phase detector. Touching live parts can cause electric shock, burns or death.
- ▶ Observe the safety information for the use of a phase detector.
- ▶ If you are unsure, consult a qualified electrician.

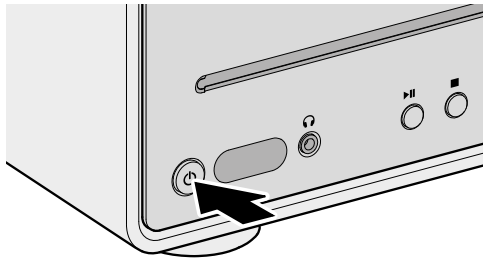


- ▶ Connect the power cable to the mains socket.
- ▶ Make sure that the mains socket used is accessible at all times.



- ▶ Switch on the main switch.

3.8 Initial setup

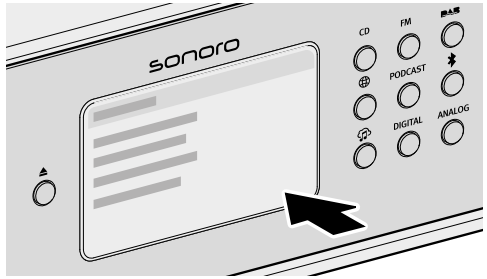


- ▶ Switch on the device.
- ▶ Wait a few seconds.

The setup wizard starts automatically.

Information on the control and operation of the setup wizard:

➔ See chapter "4.1 Control on the device" (page 30).



- ▶ Follow the instructions shown on the display.
- ▶ Accept the privacy policy.
- ▶ Set the language, region, country and time zone.

For immediate use, Chromecast built-in can be started directly during setup or alternatively at a later time.

➔ See chapter "4.7.9 Chromecast built-in" (page 58).

Setup includes the connection to the network.

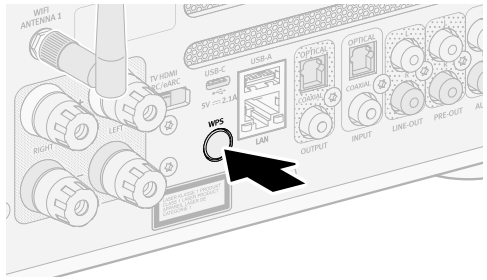
➔ See chapter "3.9 Network connection" (page 27).

The initial setup includes an automatic update search for the device. We recommend that you to confirm an update.

Completion of the setup is confirmed with a message on the display:
"Setup is complete - congratulations! The device is set up."

3.9 Network connection

WLAN

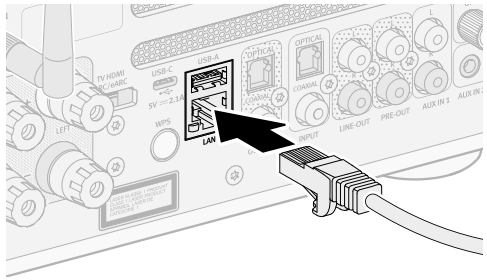


- ▶ Briefly press the WPS button on the back of the device.

- ▶ Then briefly press the WPS button on your router.

The connection is established automatically.

LAN



- ▶ Connect the LAN cable with the device.

- ▶ Connect the LAN cable with your router.

The connection is established automatically.

Further connection options:
Main menu ⇨ Settings ⇨ Network wizard

➔ See chapter "4.7.1 Network wizard" (page 56).

3.10 Sound optimisation

To automatically adapt the sound to the room situation at the installation site, the unit is prepared for the use of Dirac Live.

Dirac Live analyses the individual spatial conditions and uses acoustic processing algorithms to reduce sound deviations and achieve optimal speaker performance.

The following components are required to use Dirac Live:

- Dirac Live app or Dirac Live software
- Measuring microphone
- Microphone extension cable
- Microphone stand

The Dirac Live app is available for iOS and Android.

Apple App Store (iOS)

Google Play Store (Android)

The Dirac Live software is available for Windows or MacOS.
https://www.dirac.com/live/downloads/

A measuring microphone, microphone extension cable and microphone stand can be ordered on our website:
https://messmikrofon.sonoro.com/

Using the Dirac Live app

- ▶ Connect the measuring microphone and microphone extension cable.
- ▶ Connect the measuring microphone and the unit (USB-A connection).
- ▶ Press the main menu button (⚙) on the unit.
- ▶ Select the sound settings ⇨ Dirac Live.
- ▶ Open the Dirac Live app on your smartphone or tablet.
- ▶ Follow the instructions.

Using the Dirac Live software

- ▶ Connect the measuring microphone and microphone extension cable.
- ▶ Connect the measuring microphone and computer.
- ▶ Press the main menu button (⚙) on the unit.
- ▶ Select the sound settings ⇨ Dirac Live.
- ▶ Open Dirac Live on your computer.
- ▶ Make sure that your computer has recognised the measuring microphone.
- ▶ Follow the instructions.

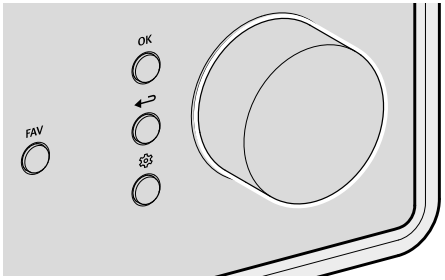
Please note that this is a limited license, which guarantees the functionality of room correction with limited frequency response correction (20Hz-500Hz). You can upgrade this license to a full version (20Hz-20kHz) at a later date via our online shop.

4. Operation

The following options are available for operating the device:

- Directly on the device.
  ➔ See chapter "4.1 Control on the device" (page 30).
- Via the remote control.
  ➔ See chapter "4.2 Control via the remote control" (page 32).
- Via the app.
  ➔ See chapter "5. sonoro audio app" (page 60).
- Via the web client.
  ➔ See chapter "6. sonoro web client" (page 60).

4.1 Control on the device



The device is controlled and operated using the navigation keys and the rotary control (e.g. to select menu items or follow the instructions on the display).

If a menu is currently being displayed:

▶ Turn the controller to select a menu item or input.

If a source is currently playing:

▶ Turn the controller to adjust the volume.

OK

If a menu is currently being displayed:

▶ Press the OK button to confirm the selection.

When a source is playing and a station image or music track cover appears on the display:

- Pressing the OK button briefly displays information about the station or track.
- Pressing and holding the OK button enlarges the display.
- By briefly pressing the OK button again, the previous display reappears.

If a menu is currently being displayed:

▶ Press the back button to go back to the previous menu.

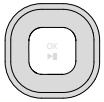
If a source is currently playing:

▶ Press the back button to enter the submenu of the source.

▶ Press the main menu button to access the main menu.

4.2 Control via the remote control

The device can also be controlled and operated via the remote control (e.g. to select menu items or follow the instructions on the display).



If a menu is currently being displayed:

- ▶ Use the up and down buttons to select a menu item or item of information within a menu.
- ▶ Use the left and right buttons to change the menu.
- ▶ Press the OK button to confirm the selection.

If a menu is currently being displayed:

- ▶ Press the button to confirm the selection.

If a source is currently playing:

- ▶ Press the button to mute / unmute or play / pause

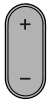
If a menu is currently being displayed:

- ▶ Press the back button to go back to the previous menu.

If a source is currently playing:

- ▶ Press the back button to enter the submenu of the source.

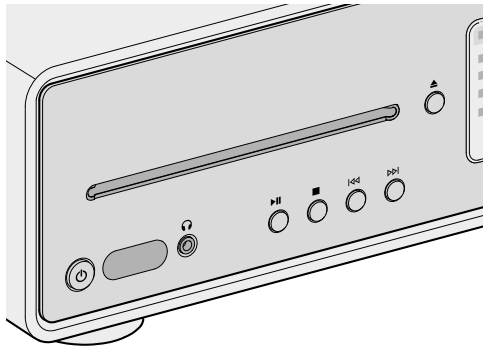
- ▶ Press the main menu button to access the main menu.



If a source is currently playing:

- ▶ Use the + and - buttons to change the volume.

4.3 Functions



The following functions are accessed directly via buttons on the device or on the remote control.

- Switch on
  The device starts with the last selected playback source.
- Switch off
  The device switches to standby mode.

When the device is switched on but not playing and not being operated:
After the standby timeout has expired (default setting 15 minutes), the device automatically switches to network standby mode.
➔ See chapter “4.7.12 Power management” (page 59).

- Play
  Playing a playback source is continued.
- Pause
  Playing a playback source is paused.

- Press
  The playback source changes to the previous title, station or frequency.
- Press and hold
  If the playback source allows it, a rewind within the current title takes place (e.g. with CD, podcast or My Music) or a station scan (with FM radio).

⏭ • Press
The playback source changes to the next title, station or frequency.
• Press and hold
If the playback source allows it, fast forward within the current title (e.g. with CD, podcast or My Music) or station scan (with FM radio).

▬ • Play
Inserting a CD into the CD drive automatically starts playback of the CD.
Further information on playing CD's:

⏏ • Eject
The CD in the CD drive is ejected.

🎧 • Listen
Inserting the jack plug into the headphone socket on the device results in playback on the connected headphones; playback on the speakers is deactivated.
When a headphone is connected via the headphone jack, playback sound via loudspeakers is not possible.

FAV ➔ See chapter "4.6 Favorites" (page 54).

More information on selecting playback sources via dedicated buttons:
➔ See chapter "4.5 Sources" (page 39).

4.4 Main menu

⚙ Setting options can be reached via the main menu.

4.4.1 Menu

To select the desired playback source.
➔ See chapter "4.5 Sources" (page 39).

4.4.2 Sound settings

To adjust the sound to your own preferences (e.g. treble, bass).
The following options are available for selection in the menu:

- Adaptive loudness
  Depending on the volume, the function compensates for an uneven tonal balance in the lower frequency range. Fine tones can be heard clearly even with soft music.
- Bass - from –12 dB to +12 dB
- Treble - from –12 dB to +12 dB
- Balance control - from –6 dB (left) to –6 dB (right)
- Loudspeaker selection
  - Maximum power - for speakers with high power consumption (full frequency response, no limit)
  - Medium power - for speakers with medium power consumption (full frequency response, limited to 100 W at 4 Ω or 50 W at 8 Ω)
  - sonoro speakers - for presets matched to sonoro devices
    - ORCHESTRA SLIM
    - ORCHESTRA
    - ORCHESTRA (Gen.2)
    - GRAND ORCHESTRA
  - Dynamic Bass EQ
    The function extends the lower frequency range and boosts the bass depending on the signal level.
    Dynamic Bass EQ is only available for the selected Sonoro speakers.

- Audio system setup
  - Stereo system (standard setting)
    For two loudspeakers.
  - 2.1 system
    For two loudspeakers and one subwoofer.
  - 2.2 system
    For two loudspeakers and two subwoofers.
  - Speaker high-pass filter
    If the unit is operated with subwoofers (2.1 system or 2.2 system), the connected speakers (left and right) with speaker high-pass filters (2nd order or 4th order) can be used. The speaker high pass filters relieve the speakers of low tones, and the system's dynamics and volume are improved.
    The bass volume is adjusted on the subwoofer - starting with a low volume and slowly increasing until the subwoofer can just be heard.
    - Speaker high pass filter 2nd order (12 dB/octave)
    - Speaker high pass filter 4th order (24 dB/octave)
    - Off
  - High-pass filter frequency
    The unit and subwoofer must be set to the same high-pass filter frequency between 40 Hz and 160 Hz. Low frequencies (e.g. 40 Hz) are suitable for large subwoofers, higher frequencies for smaller subwoofers.
- Dirac Live
  ➔ See chapter "3.10 Sound optimisation" (page 28).

4.4.3 Sleep timer

For selecting and setting the automatic switch-off function. The desired time interval can be set in 5-minute steps up to a maximum of 120 minutes.

The activated sleep timer is indicated by the icon. The sleep timer can be ended immediately by switching off the device.

4.4.4 Alarm

To set up the alarm function with your own settings. The menu includes the following options:

- Alarm list
  Stored wake-up times are managed in the alarm list. After selecting an alarm time, the stored settings can be confirmed, changed or deleted. Each editing of a wake-up time must be confirmed by saving.
- Add alarm
  To appear in the alarm list, a desired alarm time must be added with the following settings saved:
  - Active - Off, Daily, Once, Weekdays, Weekends or a specific day of the week.
  - Time - Time to the minute.
  - Sound - Alarm tone "Morning vibes" or a source from the favorites.
  - Volume

  The setting of the alarm time must be confirmed by saving.

The activated alarm is indicated by the icon. In standby, the alarm time is displayed at the bottom.

Snooze function

The alarm can be temporarily silenced by pressing the OK, Play / Pause or Mute button. The snooze function icon flashes and the remaining time is displayed.

The duration (default setting 10 minutes) can be changed (5, 10, 15, 20, 30, 45 or 60 minutes) using the rotary control or the Up / Down buttons on the remote control.

Pressing the standby button ends the snooze function.

4.4.5 Recently played

Calls up the list with the most recently played sources.

If the storage spaces are exceeded, the oldest entry is overwritten.

4.4.6 Recall from favorites

To call up a previously saved source (e.g. radio stations, titles from streaming services or podcast programmes).

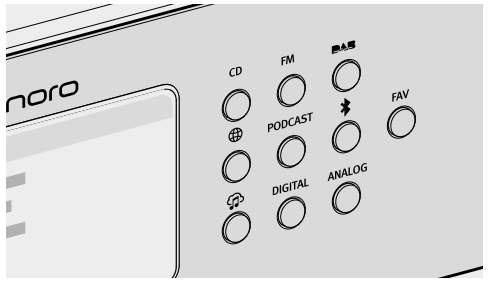
➔ See chapter "4.6 Favorites" (page 54).

4.4.7 Settings

For selecting general setting options of the device (e.g. network, language, time, factory reset).

➔ See chapter "4.7 Settings" (page 56).

4.5 Sources



Selection of the desired playback source.

The following options are available:

- Dedicated buttons directly on the device.
  The following buttons offer the option of selecting other sources:
  - AUX – See chapter "4.5.8 Analogue" (page 49).
  - DIGITAL – See chapter "4.5.7 Digital" (page 48).
  - Streaming Music – See chapter "4.5.6 Streaming Music" (page 46).
- Main menu selection ⇨ Menu.
- MENU button on the remote control.

When a source is playing and shown on the display:

- Pressing the back button or selecting the source again calls up the source submenu.
- After pressing the back button in the submenu, the source is shown again on the display.

Buttons on the device or on the remote control (e.g. favorites, play, pause, change to the next or previous title) are available for all play sources.

4.5.1 FM Radio

FM For playing analogue radio stations that can be reached via antenna.
An automatic search is carried out the first time the device is started.

Submenu:

- Station list

  When started, automatic scanning is carried out, available stations are stored in the station list with indication of the frequency.
- Save station

  Stations can be stored manually after scanning with the "Left / Previous Station" and "Right / Next Station" buttons.
- Scan setting
  - Strong stations only (default setting)
  - All stations

  Press and hold the "Left / Previous station" or "Right / Next station" button to perform corresponding scanning.
- Audio settings
  - Listen in stereo FM (default setting)
  - Listen in mono FM
- Scan

  Enter the term in the menu item "Scan", start the function after selecting the menu item "Scan".

4.5.2 DAB Radio

DAB For playing digital radio stations that can be received via antenna. An automatic search is carried out the first time the device is started.

Submenu:

- Station list

  When started, automatic scanning is carried out, available stations are stored in the station list.
- Rescan
- Manual tuning
- Prune invalid stations

  When calling up a station that is no longer being received, an error message

  "Error-failed to start playback" appears.

  After a rescan, stations that can no longer be received are marked as invalid in the station list with "?" in front of the station name.

  Confirming this menu item removes invalid channels from the list.
- DRC ("Dynamic Range Compression")

  Some DAB radio stations offer dynamic range compression (DRC).

  Compressing the dynamic range of a radio signal can increase the volume of quiet sounds and decrease the volume of loud sounds. Use of the function is recommended for noisy environments.
- Station order
  - Alphanumeric (default setting)
  - Ensemble
  - Valid

4.5.3 Internet radio

For playing radio stations that are accessible via streaming over the Internet.

Submenu:

- Favorites
  To call up previously saved Internet radio stations from the favorites list.
- History
  To call up the last Internet radio stations played.
- Recommendations
- Local stations
- Popular stations
- Trending
- High quality
- New stations
- Filter
  - By place
  - By language
  - By genre
- Scan
  Enter the term in the menu item “Scan”, start the function after selecting the menu item “Scan”.

4.5.4 Podcast

PODCAST For playing back podcast programmes that can be accessed via streaming on the Internet.

Submenu:

- Favourites
  To call up previously saved podcast programmes from the favorites list.
- History
  To call up the most recently played podcast programmes.
- Popular podcasts
- Trending
- Filter
  - By place
  - By language
  - By genre
- Scan

4.5.5 Bluetooth®

For playback from paired audio sources (e.g. smartphone, tablet, computer) and to paired Bluetooth devices (e.g. headphones, sound box, speakers) within a range of approx. 10 metres.

Before connecting to a Bluetooth device

- ▶ Disconnect an existing connection on the Bluetooth device.
- ▶ Make sure the Bluetooth device is in discovery mode and ready for pairing.
- The instructions for the Bluetooth device must be followed.

Connecting to a Bluetooth device for the first time

- ▶ Press the Bluetooth button on the device or select Bluetooth from the menu. When the icon flashes, the device is in searching mode.
- ▶ Start scanning automatically.
- ▶ Wait until the name of the Bluetooth device is displayed.
- ▶ Select the Bluetooth device.
- ▶ Press the OK button to confirm.
- ▶ Select "Pair".
- ▶ Press the OK button to confirm.

When the devices have been successfully paired:

- The message "Bluetooth paired" appears briefly on the display.
- The or icon (for headphones) is displayed.

An active connection with a paired audio source or a paired Bluetooth device is displayed with "Name of Bluetooth device | Active".

Submenu:

- Searching for Bluetooth devices
  The searching time is 30 seconds.
- Paired audio source devices
  Active or already paired audio sources (e.g. smartphone, tablet, computer) are displayed.
- Paired headphones / speaker devices
  Active or already paired Bluetooth devices (e.g. headphones, soundbox, speakers) are displayed.
- New devices
  All new Bluetooth devices are displayed. – max. 6 devices

Connecting to an already paired Bluetooth device

The last connected Bluetooth device is automatically reconnected.

For other previously paired Bluetooth devices:

- ▶ Press the Bluetooth button on the device or select Bluetooth from the menu.
- ▶ Select the Bluetooth device.
- ▶ Press the OK button to confirm.
- ▶ Select "Connect".
- ▶ Press the OK button to confirm.

Disconnecting from a paired Bluetooth device

- ▶ Press and hold the Bluetooth button on the device.
  Disconnection from the Bluetooth device is confirmed on the display.

Unpairing a Bluetooth device

- ▶ Call up the Bluetooth submenu.
- ▶ Select the Bluetooth device.
- ▶ Press the OK button to confirm.
- ▶ Select "Unpair".
- ▶ Press the OK button to confirm.

4.5.6 Streaming Music

For playback from sources:

- My Music -USB-A, UAB-C and UPnP / DLAN music server.
- Music services - Amazon Music®, Deezer®, Napster®, Spotify / Connect®, TIDAL / Connect®Streaming services that are available via the Internet.

➔ See chapter "4.5.10 Music services" (page 51).

⚠ ATTENTION!

Risk of material damage due to improper handling!

Connection to live equipment may cause voltage damage to the device.

▶ Never connect the device to the USB port of a computer or to storage media (e.g. external hard drive) connected to the power supply.

My Music

For playback from sources:

- External devices that are connected via "USB" inputs.
- Media servers that are on the same network

Submenu:

- Shared Music

  The connected network is searched for sources with audio files. When a media server that has been found is selected, the audio files it contains can be played on the device. The selection is made according to the file structure on the media server.
- USB-A

  Access to content according to existing file structure.
- USB-C

  Access to content according to existing file structure.
- Play queue
  - "Play queue is empty"
  - "Try to add some songs to the play queue"

  To add a title to the play queue:
  ▶ Select a source in "My Music".
  ▶ Select a title without confirming the title.
  ▶ Press and hold the Play / Pause button.
  ▶ Select "Add to play queue".
  ▶ Select "Now", "After current" or "Append".

- Playlists
  - "Create new playlist"
  - Select existing playlist

  To add a title to a playlist:
  ▶ Select a source in "My Music".
  ▶ Select a title without confirming the title.
  ▶ Press and hold the Play / Pause button.
  ▶ Select "Add to Playlist".
  ▶ Select "Now", „After current" or "Append".

- Shuffle
  - Shuffle on
  - Shuffle off
- Repeat
  - Repeat all
  - Repeat one
  - Repeat folder
  - Repeat off

4.5.7 Digital

DIGITAL To playback from external devices connected via the "Optical", "Coaxial" or "HDMI" inputs.

Audio latency compensation is a function to adjust a time offset between video and audio signals. The value is adjustable from 0 ms (default setting) to 480 ms.

- Optical input
  - Audio latency compensation
- Coaxial
  - Audio latency compensation
- HDMI

  When connecting to the television, make sure that the appropriate output "eARC" or "ARC" is selected.
  - HDMI CEC ("Consumer Electronics Controls") - Turning on and off

    Function to use the control commands from or on an external device connected via an HDMI cable.

    Use of the function may result in increased network power consumption.
  - Audio latency compensation

4.5.8 Analogue

ANALOG For playback of external devices connected via the "AUX 1" or "AUX 2" inputs.

- AUX In 1

  Press the back button to set the input sensitivity:
  - Low (2000 mV)
  - Medium (1000 mV), default setting
  - High (500 mV)
- AUX In 2

  The input sensitivity is fixed (300 mV).

  Phono

  Operation takes place on the external turntable.

4.5.9 CD

CD For playing back from CD's in the CD drive in the formats Audio CD and MP3/WMA CD.

Inserting a CD into the CD drive starts playback automatically.

Submenu:

- Display of information about the inserted CD (e.g. type, tracks, duration). The title names are displayed for CD's equipped with corresponding information.
- Shuffle - Turn on and off.
- Repeat
  - Repeat all
  - Repeat one
  - Repeat folder (only for CD's with folder structure)
  - Repeat off
- Resume playback
  - Resume on

    Playback starts from the last position played.

    This function is also available when the playback source has been changed or the device has been switched to standby mode (e.g. helpful for audio books).

    The function is terminated by "Resume off", by ejecting the CD or by switching off the device with the main switch.
  - Resume off

4.5.10 Music services

The following music services can be connected via the device or via the sonoro audio app:

Amazon Music®

Deezer®

Napster®

Qobuz®

The following music services can be connected via the device or via the sonoro audio app and also offer direct control via the app of the streaming provider:

Spotify Connect®

TIDAL Connect®

For further information, please refer to the documentation (e.g. instructions, websites) of the respective streaming provider.

4.5.11 Streaming

The device is prepared for data transfer and content playback by connecting to streaming applications.

➔ See chapter "10.1 Marks of conformity and certificates" (page 67).

- Chromecast-built-in

  The connection is possible if the smartphone or tablet is connected to the device via the same wireless network.
- Google Home

  Setup takes place via the Google Home app when the smartphone or tablet is connected to the device via the same wireless network.
- AirPlay

  The connection is possible if the iOS device is connected to the device via the same network.
- Spotify Connect®

  Use your phone, tablet or computer as a remote control for Spotify. Go to spotify.com/connect to learn how

  ➔ See chapter "4.5.10 Music services" (page 51).
- TIDAL Connect®

  Control is directly via the TIDAL app when the smartphone or tablet is connected to the device via the same wireless network.

  ➔ See chapter "4.5.10 Music services" (page 51).

4.5.12 Smart Home

The device is prepared for playback from sources or to devices connected via building automation systems ("Smart Home").

The following operation of the device is possible via Smart Home:

- Turn the device on and off.
- Select the desired playback source.
- Call up functions (e.g. play / pause, previous / next title or station).
- Adjust the volume (including mute).
- Play playlists (including repeat or shuffle).
- Recall from favorites.

Work on electrical equipment in the building must be carried out by qualified electricians exclusively. Experience is required for programming the software.

To connect the device to a Smart Home system:

▶ Contact a sonoro Smart Home specialist dealer or sonoro customer service.

The following systems can be combined with the device.

- Busch-free@home

  Prerequisites:
  - Busch-free@home is set up, the software is up to date.
  - The devices are on the same network.
- KNX

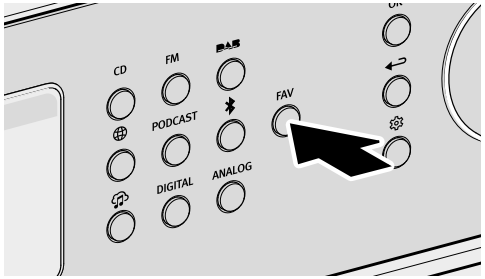
  Prerequisites:
  - ISE KNX Connect sonoro is available.
  - Suitable ETS software from the KNX Association is available subject to a fee.
- Gira X1

  Prerequisites:
  - Gira X1 logic device and Gira Project Assistant are available.
- Control4

For further information, please refer to the documentation (e.g. manuals, websites) of the respective system.

4.6 Favorites

4.6.1 Device



The device has space to store 99 favorites, e.g. for:

- Radio stations
- Titles from streaming services
- Podcast broadcasts

To save a favorite on the device, the desired source must be playing.

FAV

▶ Press and hold the button until the favorites list is displayed.

▶ Select a storage space.

OK

▶ Press the button to confirm.

To call up a favorite on the device:

FAV

▶ Briefly press the button. The favorites list is displayed.
  - Favorites on the device
  - Internet radio favorites
  - Podcasts favorites

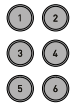
▶ Select the favorite.

OK

▶ Press the button to confirm.

4.6.2 Remote control

The first 6 storage spaces in the favorites list can also be called up via the direct button on the remote control. To add a favorite, the desired source must be playing.



▶ Press and hold one of the six buttons to save the favorite in that position.

▶ Press the button briefly to call up the favorite.

4.6.3 Internet

For sources that offer content from internet servers or the cloud (e.g. internet radio, podcasts, music services), additional storage space is available.

Favorites can be saved and called up in a separate folder that is automatically named after the source.

4.7 Settings

4.7.1 Network wizard

Connection to the network can be established by radio (wireless) or by cable (LAN).

If your router supports setup via WPS ("Wi-Fi Protected Setup"), the device can establish a fast and secure connection to the wireless network via its own WPS button.

The following options are available for selection in the menu:

- Configure connection (wireless)
  - Scan network

    For manual selection of the network with entry of the network key via the navigation keys and the rotary control.
  - WPS button

    For automatic connection via the WPS button on the device.
  - WPS Pin code

    To call up a pin code to be entered on the router web page.
  - Manual (DHCP enabled or DHCP disabled)

    For manual connection to the network and individual configuration options.

    If DHCP ("Dynamic Host Configuration Protocol") is activated, settings and information (e.g. IP address, subnet, gateway, DNS) are assigned automatically.
- Configure wired
  - DHCP disabled

    Settings and information (e.g. IP address, subnet, gateway, DNS) are assigned manually.
  - Automatic DHCP

    Settings and information (e.g. IP address, subnet, gateway, DNS) are assigned automatically.
- Network type

  To preset the desired connection method.
  - Automatic
  - Wireless (WLAN)
  - Wired
- Reset network settings

  To delete the existing network connection or to set it again in case of connection problems.

4.7.2 Network info

After calling up, the following information is displayed:

- Status
- Network type
  - Wireless / Wired
- SSID
- Encryption
- IPv4 address
- Mask
- IPv6 address
- Auto-configured
- Gateways
  - IPv4 address
- DNS
  - IPv4 address
  - IPv6 address
  - IPv6 address

4.7.3 Language

To select the set language.

4.7.4 Date and time

- Set time format - 12 hours or 24 hours
- Country and region

The date and time are automatically retrieved from the Internet. If there is no internet connection, the date and time are set via DAB/FM.

4.7.5 Device info

After calling up, the following information is displayed:

- Device name
- Device ID
- Serial number
- Software information
  - sonoroSDK
  - Spotify
  - MCU
  - DSP
  - Bluetooth®
  - CD servo
  - DAB/FM
  - HDMI

There is an editing option for the device name.

4.7.6 Software update

- Check for update
- USB update

4.7.7 Factory reset

To set the device back to the factory defaults. All saved settings are deleted. The device must be set up again.

4.7.8 Streaming audio quality

Adjustable for Amazon Music®, Napster®, Qobuz® and TIDAL Connect®.

- Low
- Normal
- High
- Premium

4.7.9 Chromecast built-in

Chromecast built-in can be started directly when setting up the device (“Cast is enabled”) or at a later time (“Activate Cast”).

- Send device usage and crash reports by selecting “Yes” or “No”.
- Referral links
  - Learn how to Cast
  - Chromecast enabled apps
  - Google Terms of Service
  - Google Privacy Policy
  - Help improve Chromecast built-in

4.7.10 AirPlay password

To request a one-time password on the screen from the iOS device.

▶ Password
▶ Clear password

4.7.11 Display settings

- Brightness setting - Automatic or manual
- High ambience
- Low ambience
- Return to play-screen time
  - Turn off
  - 15 seconds (default setting)
  - 30 seconds
  - 1 minute

- Screen timeout in standby
  - Display always on (default setting)
  - 15 seconds
  - 1 minute
  - 5 minutes
- List gradience - On or Off

  Here the focus is placed on the current menu selection by dimming down other menu items.

4.7.12 Power management

- Standby timeout

  When the device is switched on but not playing and not being operated:
  Setting of the length of time until the device switches off automatically.
  - Off
  - 10 minutes
  - 15 minutes (default setting)
  - 20 minutes
  - 30 minutes
- Inactive standby

  When the device is switched on and playing but not being operated:
  Setting of the length of time until the device switches off automatically.
  - Off (default setting)
  - 2 hours
  - 4 hours
  - 8 hours
  - 12 hours
- Deep sleep mode - Enable or Disable

  If the device has been switched to standby mode, the set alarm has no function in deep sleep mode. The device cannot be recognised on the network.

4.7.13 Privacy policy

Access to the sonoro privacy policy via a QR code and “Accept” prompt.

5. sonoro audio app

The sonoro audio app is available for controlling the device via smartphone or tablet.

Apple App Store (iOS)

Google Play Store (Android)

Further functions and options are available when the app is used.

Better sound is possible when a smartphone or tablet connects to the device via the same wireless network than if connection is established via Bluetooth®.

6. sonoro web client

The IPv4 address of the device is required for using the sonoro web client.

➔ See chapter "4.7.2 Network info" (page 57).

▶ Enter the IPv4 address of the device in the address line of the web browser (only the numbers separated by a dot, e.g. "192.168.0.23").

The device can be operated via the web browser.

7. Cleaning and care

⚠ ATTENTION!

Risk of property damage due to improper cleaning!

Sharp-edged objects, abrasive cleaners or unsuitable cleaning agents can damage the surface of the device. Incorrect cleaning measures can restrict the functionality.

▶ Never use abrasive or solvent-based cleaning agents.
▶ Never use hot or compressed air to dry the device.
▶ Protect edges and corners of the device from excessive pressure.

- Fingerprints and light soiling:
  ▶ Only clean the outside of the device with a soft, dry cloth.

- Heavy soiling:
  ▶ Only clean the outside of the device with a slightly damp cloth.
  ▶ Then dry the device with a soft, dry cloth.

8. Troubleshooting

Possible malfunctions are described as follows:

Description of the fault.

- Possible cause.
  ▶ Remedy the fault.
  ➔ Reference to corresponding chapter.

The device does not switch on.

- No power supply.
  ▶ Check the power supply (e.g. fuse from the circuit).
  ▶ Make sure that the power cable is connected correctly.

The device does not respond.

- Error on the device.
  ▶ Disconnect the device from the power supply for a few seconds (e.g. unplug the power cable).
  ▶ Switch the device on again.

The device automatically switches to standby mode.

- The sleep timer is activated.
  ▶ Switch on the device.
  ▶ Start playback again.
- The inactivity standby function is active because the device has not been used for the set time.
  ▶ Switch on the device.
  ▶ Start playback again.

Poor sound quality.

- Interference from other radio transmitters or devices.
  ▶ Increase the distance to other devices.
  ▶ To connect via HDMI, use a good, shielded HDMI cable.

The remote control does not react or reacts incorrectly.

- The distance to the device is too great.
  ▶ Reduce the distance between the remote control and the device.
- The battery is empty.
  ▶ Replace the battery.
  ➔ See chapter "3.3 Preparing the remote control" (page 17).

No connection to the wireless network.

- The router is too far away or communication is blocked.
  ▶ Make sure that the router is not shielded.
  ▶ Place the device closer to the router.
  ▶ Change the orientation of the Wi-Fi antennas.
- The router is not switched on or is not working properly.
  ▶ Switch on your router.
  ▶ Check the status of the router.
- Incorrect set-up procedure.
  ▶ Check that your router supports WPS and uses the correct setup procedure (PBC or PIN).
  ▶ Repeat the connection process.
  ➔ See chapter "3.9 Network connection" (page 27).

No sound audible.

- The sound is switched off.
  ▶ Adjust the volume.
- The device is not in the correct play mode.
  ▶ Select another playback source.
- The headphone is plugged in.
  ▶ Disconnect the headphone plug.
- No FM/DAB reception.
  ▶ Connect or align the FM/DAB antenna.
- No network connection.
  ▶ Check the connection.
  ➔ See chapter "4.7.1 Network wizard" (page 56).
- No sound from the external device connected via the optical or coaxial input.
  ▶ Select PCM as the output on the external device.
- No sound from the television connected via the "HDMI" input.
  ▶ Use the HDMI socket "eARC" or "ARC" on the television.
  ▶ Select PCM as the output on the external device.

Playback of the CD in the CD drive does not start.

- The CD format is not supported.
  ▶ Make sure that the CD corresponds to the audio CD or MP3/WMA CD format.
- The CD is dirty.
  ▶ Clean the CD.
- The CD is damaged.
  ▶ Use another CD.

Internet radio station does not work from time to time.

- Some stations only support a limited number of listeners.
  ▶ Try again later.
- The radio station is not broadcasting.
  ▶ Try again later.

Internet radio station disappears from the station list.

- The station is removed from the list if it is not transmitting.
  ▶ Try again later. When the station is transmitting again, it will reappear in the list.

The USB device does not work.

- Playback is not supported.
  ▶ Check files and the file system on the USB device.
- There are hidden files on the USB device.
  ▶ Remove the hidden files from the USB device.

The USB device is not charging.

- No connection to the USB device.
  ▶ Check the USB cable.

The Bluetooth connection does not work.

- Bluetooth is already connected to another Bluetooth device.
  ▶ Disconnect the connected device and try again.
- The Bluetooth device has problems.
  ▶ Switch Bluetooth on the Bluetooth device off and on again.
- The Bluetooth device does not support the required profile.
  ▶ Check the configuration from the Bluetooth device.

9. Disposal

9.1 Disposing of the packaging

⚠ ATTENTION!

Risk of environmental damage due to improper disposal of the packaging!

▶ Do not put the packaging in the normal household waste.

▶ Dispose of the packaging in an environmentally friendly and appropriate manner (recycling).

The packaging serves to protect against transport damage. The packaging materials are selected according to environmentally friendly aspects and are made of recyclable materials. The packaging materials can be returned to the raw material cycle after use.

▶ Dispose of the packaging in an environmentally friendly manner, separated according to materials.

9.2 Disposing of the device

⚠ ATTENTION!

Danger of environmental damage due to improper disposal of the device!

- Do not dispose of the device in normal household waste at the end of its working life.
- Ask your city or municipal administration about the possibilities of environmentally friendly and proper recycling or disposal of the device.

Correctly handing in the device for recycling makes a contribution to the reuse of materials and the protection of resources.

- Dispose of the device in accordance with the legal requirements via a specialist disposal company, via your municipal waste disposal facility or by returning it to the distributor who is obliged to take it back.

If batteries or rechargeable batteries are used:

- Remove the batteries from the device.
- Dispose of batteries and rechargeable batteries by returning them to the distributor of the battery type or to a municipal collection point.

10. Appendix

10.1 Marks of conformity and certificates

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10.2 Declaration of conformity

Manufacturer:
sonoro audio GmbH
Hammer Landstraße 45
41460 Neuss
Germany

We hereby declare that the product

All-In-One Audio Music System MAESTRO Quantum

by virtue of its development, design and construction, complies with the essential requirements of the following Directives:

- Radio Equipment Directive 2014/53/EC
- Ecodesign Directive 2009/125/EC
- Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EC

In the event of a modification of the device that has not been approved by the manufacturer, the declaration of conformity automatically loses its validity.

Full text of the EU Declaration of Conformity:
https://support.sonoro.com

Operating instructions MAESTRO Quantum
Contents | Front of device | Rear of device | Support

11.2023

MAESTRO Quantum
(SO-1020)

SUPPORT
support.sonoro.com
Tel.: +49 (0) 2131 / 88 34 141

SONORO AUDIO APP
App Store
Google Play Store

V. 1.0.2

sonoro audio GmbH
Hammer Landstraße 45
41460 Neuss, DE