

AURUM P8 Preamplifier
AURUM M8 Amplifier



USER INSTRUCTIONS



First of all, we would like to thank you for choosing our AURUM M8 / P8 pre-amplifier combination. We manufacture top-quality HiFi equipment which we hope will delight you each time you use it. Our goal in all of this is to truly satisfy the requirements of music lovers just like you.

Even though you may already be knowledgeable in using this type of equipment, we'd still like to introduce some basic rules and guidance that will enable you to get the best out of your purchase. Please do take a few moments to read this information.

Safety instructions

Please read through these instructions carefully and follow all of the steps listed here for installing the equipment. You must abide by all of the warnings and safety instructions that are stipulated on the unit and in this instruction manual. Keep this manual close to hand so that you can consult it if you have any questions later on.

ENGLISH

The lightning symbol inside an equal-sided triangle is used to warn you about the presence of non-insulated components carrying a dangerous, live voltage that might cause severe personal injuries.

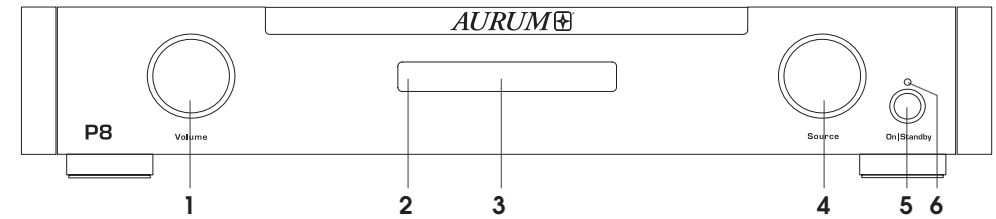
The exclamation mark inside an equal-sided triangle indicates that there is important information available regarding the use and maintenance of your equipment.

ENGLISH

- The mains power cable and other connecting cables must be laid so that none of them are crushed or damaged by furniture, are being trodden on, and / or that nobody will trip over them.
- Take the power plug out of the socket during lightning storms or if the equipment will not be used for a long time. Always pull the plug out of the socket and never remove it by pulling on the cable!
- The amplifier's speaker terminals must only be connected up to the relevant inputs on the speakers. You must never connect these terminals up to the electrical mains supply (230V / 115V) as this will destroy the equipment and all interconnected units immediately. Therefore you must never fit plugs on these cable connections to ensure that they can never be mixed up with mains plugs.
- Voltages above 30V can be present at the speaker terminals if high volume is being used. Therefore you should never touch the terminals when the amplifier is being used.

- Never use the equipment in the vicinity of water, in humid areas or outdoors. Moisture can bypass the electrical insulation and this will create a life-threatening risk as is the case with all equipment that has not been specially designed against the penetration of moisture.
- Protect the equipment against water being sprayed on it. You must also ensure that no vessels containing liquid (e.g. vases) are placed on top of the equipment.
- Do not place the equipment in the vicinity of a heat source such as an electric fire, radiator, oven or similar.
- The slits and openings in the enclosure provide the ventilation and ensure reliable operation. They must never be misaligned or covered.
- Burning-out of specific components cannot be completely excluded, despite the use of protective devices, if the equipment is severely overloaded by continually using very loud sound levels. A fire might also be caused inside the equipment in theory, as a result of this type of overloading. Therefore the amplifier should always be used within its limits and it should not be left unattended.
- Only our technical service should undertake the maintenance of your equipment. Maintenance will be necessary if any type of damage occurs, i.e. if the power cables or plugs are damaged, if an object falls on the equipment, if the equipment is dropped or if liquid seeps into it. Never open the equipment as you might touch the mains voltage (230V / 115V), which is dangerous.
- Only use furniture and other units for attaching and putting the equipment on that can be obtained from or are recommended by the manufacturer. You must ensure that moveable tabletop units or shelves on which the equipment will be placed are always moved very carefully in order to prevent damage or injuries from being caused if the equipment tips over.
- Continuously loud volume can damage your hearing!
- Only use a dry, soft cloth to clean your equipment.
- Keep the packing for possible transportation use later on and keep the plastic bag well away from children, due to the risk of asphyxiation.

Control elements on the P8 front panel



- 1 Volume control (Volume):** With this rotary control is used to set the volume. The settings are changed in 1dB increments and are shown in the display.
- 2 Infrared Receiver:** This sensor receives the infrared signals of your remote control. Always point the remote control at this area, and make sure that the sensor is not covered up.
- 3 Display:** Here, pieces of status information are displayed that facilitate the handling of the amplifier.
- 4 Input Selection (Source / Menu):** You may choose the source here by turning the button left or right. The current source is shown in the display. By pressing the button, you may access the menus. (Balance/Bass/Levels/SIS/HP). One rotation of the button within the respective menu item changes the setting.
- 5 On/Off Button:** Press this button to turn the P8 on. Press this button again to turn the device off (standby). In standby operation, all of the settings remain saved.
- 6 Operating Display:** This display will light up blue if the device is in standby mode and thus signalizes that you may turn the device back on at any time by pressing button (2) on the remote control.

Note:

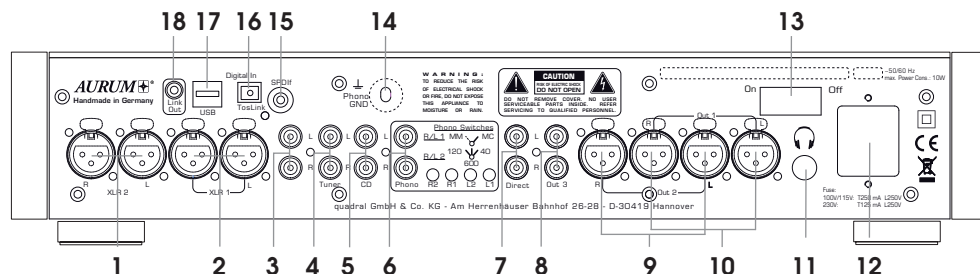
The SIS function serves the purpose of automatically switching off the device after approx. 15 minutes in case the device does not receive any signal. (Default setting = Off) If the SIS function is activated on the P8 pre-amplifier and there is a LINK connection to the M8, then the M8 power amplifier is also switched off.

If there is a LINK connection between P8 and M8, pressing button 5 on the pre-amplifier, the M8 power amplifier is switched on or off as well.

Using the menu item (HP), the headphone output on the back of the device (rear panel) is activated or deactivated.

If the headphone output is activated, the signal path to the pre-amplifier outputs is interrupted!

Connections on the P8 rear panel



- | | | |
|----|----------------------------|---|
| 1 | XLR 2 | Balanced Inputs |
| 2 | XLR 1 | Balanced Inputs |
| 3 | AUX | Analogue inputs for audio signals |
| 4 | Tuner | Analogue inputs for your radio |
| 5 | CD | Analogue inputs for CD players |
| 6 | Phono | Input (MM + MC) |
| 7 | Direct Bypass | These inputs bypass the audio and volume settings and are intended for use as part of home cinema installations |
| 8 | OUT 3 | Unbalanced Outputs |
| 9 | OUT 2 | Balanced Outputs |
| 10 | OUT 1 | Balanced Outputs |
| 11 | Headphone | output Stereo jack socket |
| 12 | Power supply socket | |
| 13 | Power switch | Completely disconnects the device from the power supply |
| 14 | Ground | Phono ground connection |
| 15 | SPDIF | Co-axial digital input |
| 16 | TosLink | Optical digital input |

Note: PHONO

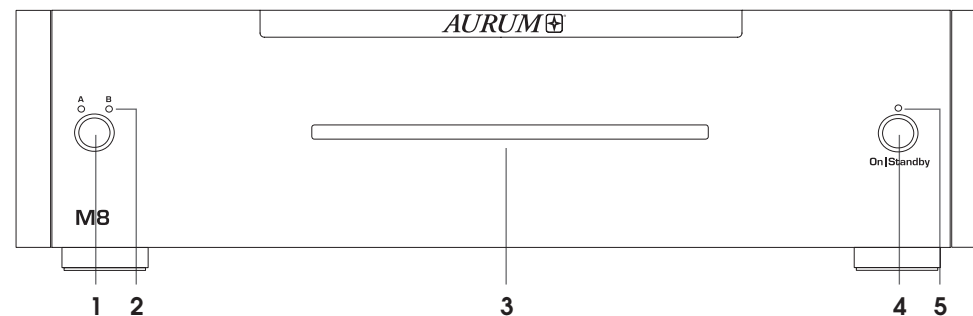


In order to handle the signal paths for Phono MM (Moving Magnet) and MC (Moving Coil) as optimally as possible, the changing between the operating modes is done on the back side of the devices and individually per channel!

The L1 and R1 switches allow the selection between the MM (switch to the left) and MC operation. (switch to the right)

The multi-stage switches L2 and R2 offer the option to adjust the impedance for different MC systems when in the MC operating mode. (Left = 120 Ohm, Centre = 600 Ohm and Right = 40 Ohm)

Control elements on the M8 front panel

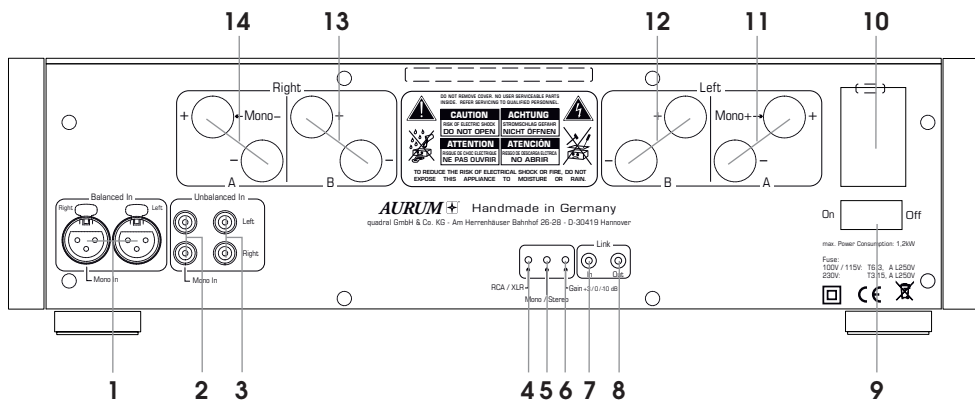


- Speakers:** Button for speaker switching
Sequence: Group A / B / A+B / OFF
- LED:** Loudspeaker group display
- Operating Display:** This display will light up blue, when the device is turned on and in operation
- On/Off Button:** Press this button to turn the M8 on. Press this button again to switch the device off (standby). During standby operation, all of the settings remain saved.
- Standby Display:** This display is blue whenever the unit is in standby mode and this indicates that the unit can be switched on again at any time using either the remote control or button (4)

Note:

If this display will flash the protection circuit turn off speaker in case of failure or overload. Reset will be possible if you operate power switch (9) located at back panel again.

Connections on the M8 rear panel



- | | | |
|-----------|-----------------------------|--|
| 1 | Balanced In | Balanced XLR Inputs |
| 2 | Unbalanced In | Stereo inputs |
| 3 | RCA | Stereo inputs that may also be used as outputs |
| 4 | RCA / XLR | Operating mode switch to forward the input signals (2) for inputs 1 – 3 |
| 5 | Mono / Stereo | Operating mode switch |
| 6 | Gain | Multi-stage switch used to adjust the input sensitivity. (+3dB / 0dB / -10dB). Please mind the information pertaining to the installation/startup. |
| 7 | Link In | Input for the 12V control connection of the P8 pre-amplifier |
| 8 | Link Out | Output socket used to forward the control voltage to other devices |
| 9 | Power switch | Completely disconnects the device from the power supply |
| 10 | Power supply socket | |
| 11 | Loudspeaker output A | (Left Channel) |
| 12 | Loudspeaker output B | (Left Channel) |
| 13 | Loudspeaker output B | (Right Channel) |
| 14 | Loudspeaker output A | (Right Channel) |

Note:

If the buttons 4, 5 and 6 are pressed, there is a pause of about 5 seconds until all operating points can be stabilized and the signal is released/cleared.

RC 2 Remote Control (OPTIONAL)

The AURUM amplifiers P8 / M8 / A5 / A3 and the AURUM CD players C3 / C5 / C5 DA may be individually controlled using the RC-2 System Remote Control.

Important note:

If you want to remotely control the amplifier or CD player functions, you must use the SELECT button to select the relevant operating mode beforehand.



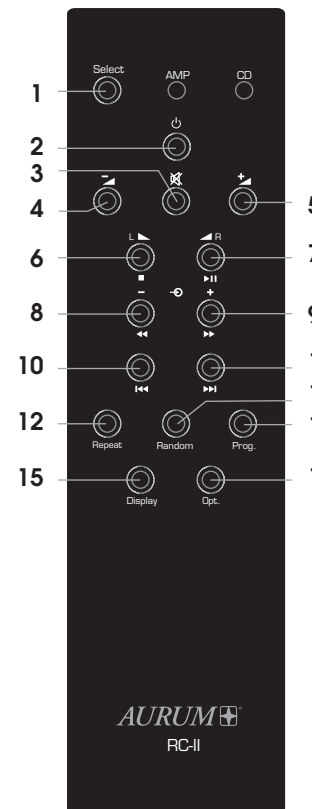
Amplifier operation

- 1 SELECT button
- 2 ON / OFF button
- 3 MUTE
- 4 Volume - minus
- 5 Volume - plus
- 6 Left balance
- 7 Balance plus
- 8 Signal source downwards
- 9 Signal source upwards
- 14 Level setting (for each input using buttons 4 & 5)
- 15 Display brilliance



CD operation

- 1 SELECT button
- 2 ON / OFF button
- 3 MUTE
- 4 Stop
- 5 Repeat / Pause
- 6 Search backwards
- 7 Search forwards
- 8 Scan backward through the titles
- 9 Scan forward through the titles
- 10 File down
- 11 File forward
- 12 Repeat (title / all)
- 13 Shuffle
- 15 Display brilliance
- 16 Unassigned (optional)



Ambient conditions

The remote control has a range of up to 6 m and works without any problems from a radiating angle of up to 30° in relation to the front of the equipment. Dust on the transmitter or dirt on the receiving sensor and operating it in the vicinity of fluorescent lights might reduce the range. A direct line-of-sight connection between the transmitter and the receiver is needed.

Notes about the removal and the correct environmentally-friendly disposal of old batteries



The symbol shown here can be found on the equipment's enclosure, the packaging as well as in the documents or the operating manual. It tells you that batteries provided with the equipment as well as those supplied with or fitted in other units must never be disposed of in household waste. They must be disposed of in an environmentally-friendly way (in compliance with the local regulations or European Directives 2002/96/EU and 2006/66/EU).

You should find out where the nearest collection point for electronic scrap is or where the recycling site is.

Correct disposal of the equipment and the batteries will help to preserve our resources and prevent physical and environmental damage. The battery (CR2032) supplied with the remote control contains lithium and it must be disposed of in an environmentally-friendly way as described above.

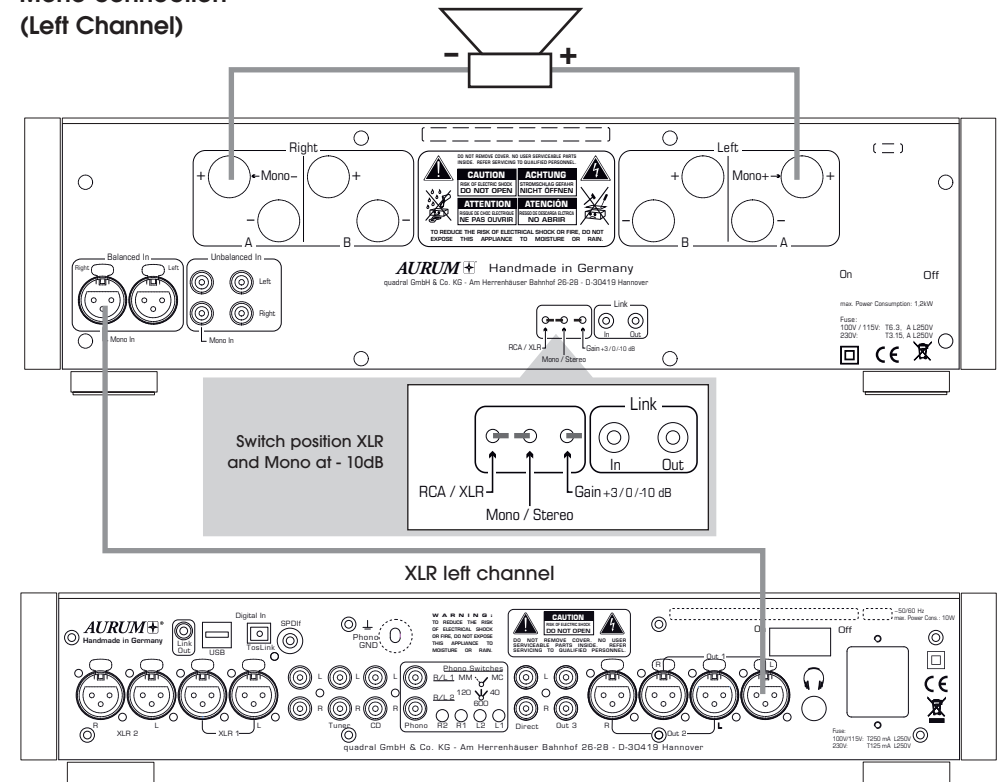
Proceed as described in the following section to replace or remove the battery fitted in the remote control.

1. Undo the screw in the cover underneath the remote control and then remove the cover.
2. Remove the battery by sliding it out of its holder.
3. You must ensure that the new battery's polarity is correct when you fit the new one! The side of the battery marked with (+) must point upwards so that it makes contact with the part of the holder marked with (+).
4. Refit the cover and use the screw to secure it in place.

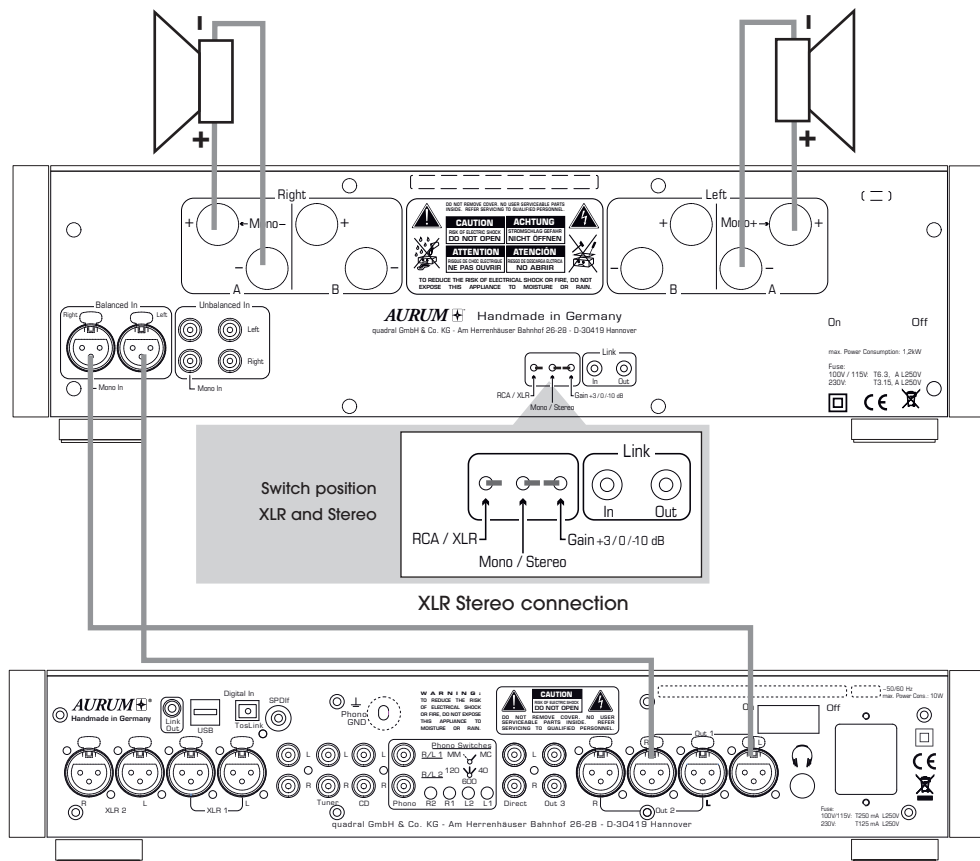
Installing

1. Ensure that the devices are switched off.
2. Connect the devices to the power supply using the accompanying power cables.
3. Connect the device outputs of the P8 pre-amplifier with the inputs of the M8 power amplifier (ideally, you should use an XLR cable connection for this purpose) (contact assignment of the XLR connection: Pin 1 = ground; Pin 2 = plus / signal; Pin 3 = minus)
4. You should now connect the source devices at your disposal. (Tuner, CD player, PC, etc.)
5. If desired, connect the Link-Out socket of the P8 with the Link-In socket of the M8.
6. The speakers are connected using the back-mounted screw terminals depending on the desired operating mode (mono or stereo).
7. You must also ensure that the plus and minus connections on the amplifier concur with the plus and minus connections on the speakers in order to prevent polarity reversal.

Mono connection (Left Channel)



Stereo connection (speaker A)



8. You may now switch your M8 and P8 devices on using the power switches.
9. Move the M8 power switch (9) and P8 power switch (13) on the back sides of the devices to the ON position. The standby LEDs on the front panels will now come on.
10. Now press the On / Standby button (5) on the front of the P8 pre-amplifier or the button (2) on the remote control to start your devices. The M8 is switched on together with the P8, if there is a LINK connection between them.
11. If there is no LINK connection, you additionally have to press button (4) on the M8 front panel.

Note:

As your P8 / M8 uses a special power-saving standby circuit, you can always switch on / off during normal operation using the On / Standby button on the unit or the RC-2 remote control.

The RC-2 remote control makes it easier for you to change your settings.

- Mute (button 3)
- Balance setting (buttons 6 & 7)
- Multi-level adjustment of display brightness (button 15 / only for P8, A5, A3)
- Input level setting for all inputs (button 14)

Example: Input level adjustment

Use buttons 8 (-) or 9 (+) to select the signal source and then press button 14 (Prog.) and use the volume buttons (4 & 5) to set up the input volume to suit yourself. Press button 14 (Prog.) once again to save the settings.

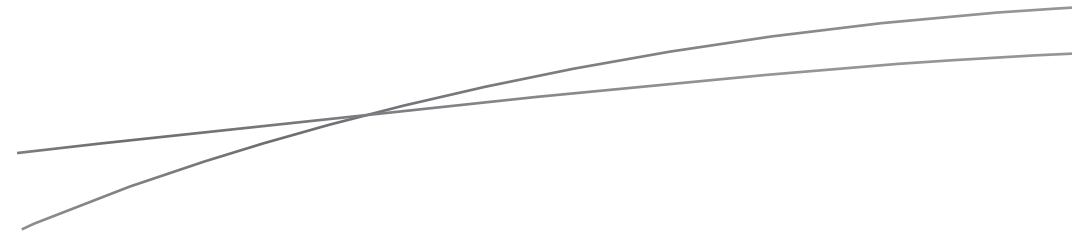
Technical Data M8

Input sensitivity for 1 W at 4 ohms	-26 dBV
Input impedance	47 kOhm
Voltage gain	22/32/35 dB
Maximum input voltage	6 V
Maximum voltage at speaker output (Stereo)	50 V
Maximum voltage at speaker output (Mono)	70 V
Minimum loudspeaker impedance (Stereo)	2 ohms
Minimum loudspeaker impedance (Mono)	2 ohms
Stereo output power at 8 ohms	120 W
Stereo output power at 4 ohms	200 W
Mono output power at 8 ohms	240 W
Mono output power at 4 ohms	350 W
Frequency response	1 Hz - 110 kHz (-3 dB)
Harmonic distortion	< 0.03%
A-weighted signal-to-noise ratio	85 dB
Mains power connection	115V / 230V, switchable
Power consumption (in normal mode)	25 W
Power consumption (at maximum volume)	max. 1200 W
Power consumption (in standby mode)	< 0.5W
Inputs	2 pairs of RCA, 1 pairs of XLR
Speaker outputs	2 x pair
12V Link Connection In + Out (short-circuit-proof)	3.5mm Mono minijack
Protective circuits	Temperature, overload
Dimensions (W x H x D)	453 x 130 x 330 mm*
Weight	1,38kg
* Width including wooden sides, Height including feet, Depth with speaker terminals	

Technical Data P8

Input impedance (XLR)	47 kOhm
Input sensitivity (XLR)	100mV
Signal-to-noise ratio (XLR) A-weighted	94 dB
Input impedance (Line)	47 kOhm
Input sensitivity (Line)	100mV
Signal-to-noise ratio (Line) A-weighted	94 dB
Input impedance Phono MM	47 kOhm
Input sensitivity Phono MM	2.6mV
Signal-to-noise ratio (Phono MM) A-weighted	90 dB
Input impedance Phono MC	40 / 120 / 600 Ohm
Input sensitivity Phono MC	0.26mV
Signal-to-noise ratio (Phono MC) A-weighted	74 dB
Voltage amplification (Line)	45 dB
Maximum input voltage (Line)	6V
Maximum voltage at XLR output	15V
Output impedance (XLR)	300 ohms
Maximum voltage at RCA output	8 V
Output impedance (RCA)	600 ohms
Volume adjustment range	99 dB
Control range for Balance, Bass, Levels	± 6 dB
Gain adjustment range	- 6 dB
Adjustment accuracy	0.1 dB
Channel balance	better than 0.05 dB
Frequency response	1Hz-110kHz (-3dB)
Harmonic distortion	< 0.03%
Stereo headphone output	6.3mm / 600 Ohm
12V Link Connection (short-circuit-proof)	3.5mm Mono minijack
SIS (Auto On/off)	after 15 minutes without a signal
Mains power connection	115V / 230V, switchable
Power consumption (in normal mode)	10 W
Power consumption (in standby mode)	< 0.5W
Analogue inputs	4 pairs of RCA, 2 pairs of XLR, 1 pair of Phono
Digital inputs (24bit / 192KHz)	1 x Optical / 1x Co-axial
USB	1 x USB / Type B (48KHz)
Outputs	2 pairs of XLR, 1 pairs of RCA
Dimensions (W x H x D)	453 x 82 x 330 mm *
Weight	5,3kg
* Width including wooden sides, Height including feet, Depth with speaker terminals	

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