# Operating Instructions

A 30.3
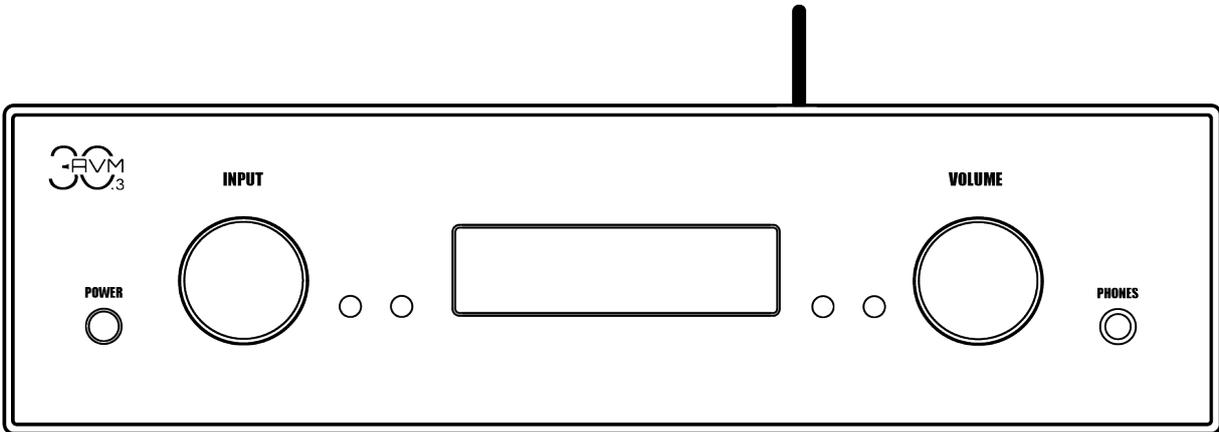
Declaration of conformity (for EU only)

We herewith confirm, that the unit to which this manual belongs fulfils the EU rules necessary to obtain the sign

CE

the necessary measurements were taken with positive results.

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Welcome!

We are pleased you have chosen an audiophile masterpiece of the AVM 30.3 series and thank you for your trust. With the A 30.3 integrated amplifier you own an extraordinary HiFi component with excellent sound and a wide range of functions. In the following, we would like to explain the use of your A 30.3 in a comprehensive way and therefore ask you to take a little time to study this manual in detail.

Should you have any questions which we have not been able to answer with this manual, please contact your dealer or distributor who will be able to configure the unit according to your needs and personal requirements and also give you instructions for daily use.

Udo Besser – AVM Owner & General Manager

Table of contents

1 Getting started

1.1 What's in the box?

- **A 30.3 integrated amplifier**
- **Bluetooth antenna**
- **Power cable**
- **RC 3 remote control**

NOTE: After unpacking, please check the scope of delivery to ensure that all parts have been supplied and are undamaged. In case the original packing has already been opened, please contact your local dealer. Often, your dealer prepares your new device prior to delivery to adapt and change the configuration to your personal needs.

1.2 Control and operating elements

The numbers in the drawings below mark the control elements. They refer to the numbers in the text, where the operation of the unit is described.
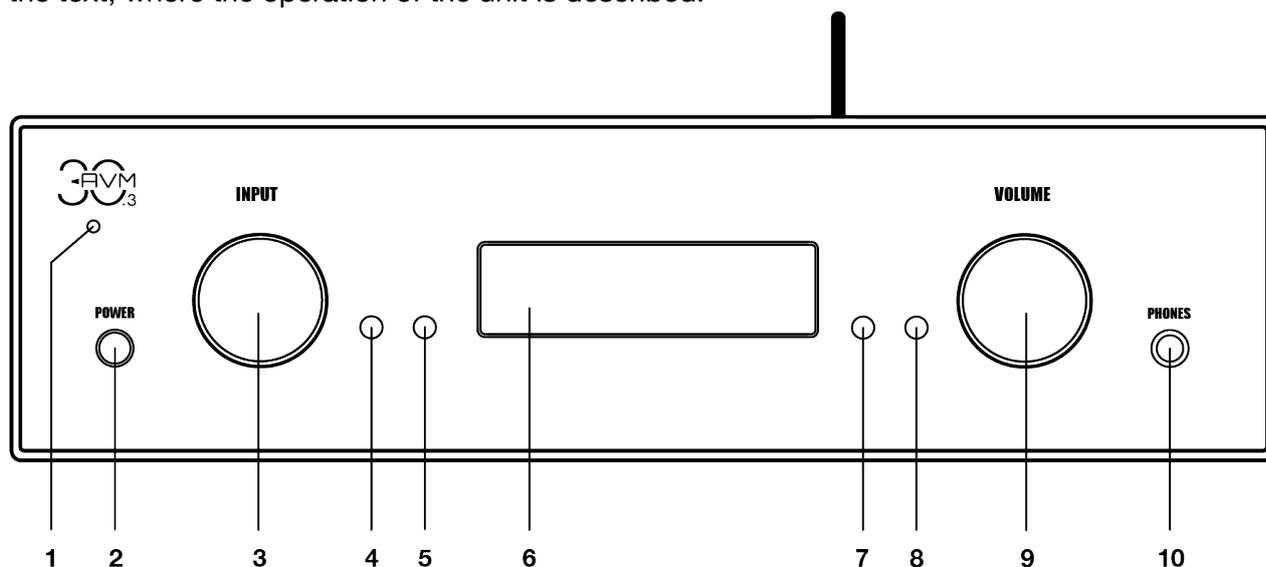
1 Control LED	6 Display
2 POWER button (on / off)	7 LEVEL button
3 SOURCE selector	8 BALANCE button
4 BASS button	9 VOLUME selector
5 TREBLE button	10 Headphone output
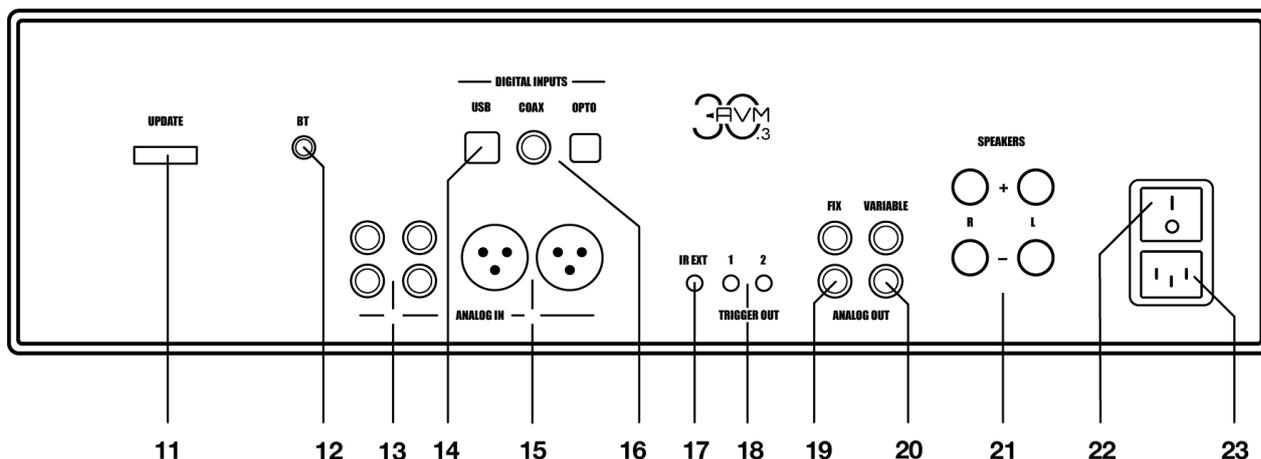
11 Configuration port (Firmware)
12 Bluetooth antenna socket
13 High-level analogue inputs CINCH
14 USB B input
15 High-level analogue input XLR
16 Digital inputs (COAX, OPTO)
17 IR input for external sensor

18 Trigger outputs (TRIGGER OUT)
19 Analog recorder output (FIX)
20 Analog preamplifier output (VARIABLE)
21 Speaker terminals
22 Mains switch
23 Mains connector

1.3 Pin assignments

1.3.1 Assignment XLR connector (15)
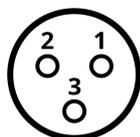
1) Ground (GND)
2) POS (+)
3) NEG (-)

1.3.2 Pin assignment of the 3.5 mm jack output for external trigger signals (18)
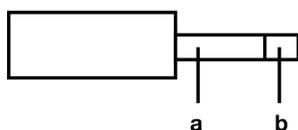
a) Ground (GND)
b) Trigger signal (+5V)

1.3.3   Pin assignment of the 3.5mm stereo jack input for external infrared receivers (17)
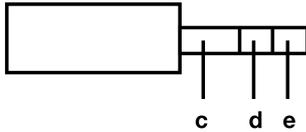
c) Ground
d) IR signal (from receiver)
e) +5V (Supply for external receiver)

1.4   Installation and cooling

The unit can become hot depending on demanded output power or environmental temperature. Therefore, it is important, that the cooling air can flow unhindered into the air inlet in the bottom and flow out through the holes in the rear panel. Direct exposure to sunlight is not recommended because this will heat up the unit and may cause unwanted malfunctions.

1.5   Connection to mains

Connect the unit to the mains outlet by using the power cord which is (in some countries) delivered together with the unit. Make sure that mains voltage is according to the value printed on the rear panel of the A 30.3 near the mains connector (23). The blue control LED (1) starts to light up and turns off as soon as the unit is switched on with the on/off button (2) and the display (6) lights up.

CAUTION: Keep the unit switched off (mains switch (23) in zero position), until all audio connections are made.

NOTE: Always disconnect the A 30.3 completely from the mains when you make changes to the wiring.

1.6   Connecting analogue signal sources

High-level sources
To connect analog signal sources, connect them via suitable cables to the balanced **XLR** input (15) or the unbalanced **CINCH** inputs (13) at the rear of the unit. For the **CINCH** inputs, the left channel is connected to the upper row (white), the right channel to the lower row (red).

1.7 Connecting digital signal sources

Connect digital signal sources to either the coaxial or the optical digital input (20) using a suitable cable. The **COAX** input is connected to the source devices via 75 Ohm cables, the **OPTO** input via optical fiber.

NOTE: Please note that to play back a digital signal, an appropriate source with a compatible input signal must be present. Otherwise, the message **NO DIG SIGNAL** will appear on the right side of the display instead of a volume value.

1.8 Connecting a power amplifier

To connect the A 30.3 to a separate power amplifier, use the analog preamp output **VARIABLE** (20). Separate power amplifiers can also be easily connected via the A 30.3 can be switched on remotely (see section 1.13).

1.9 Installing the Bluetooth antenna

For optimal use of the integrated Bluetooth functions, the Bluetooth antenna included in the scope of delivery must be connected to the antenna connector (12) on the back of the device. Please make sure that the antenna is aligned straight when screwing it on. Only then angle the antenna to the desired position.

1.10 Connecting a recording device

The inputs of a capture device are connected to the analog capture output **FIX** (19). The outputs of the recording device can be connected to one of the analog high-level inputs of the A 30.3 (13, 15).

1.11 AV Pass Through (Home Theater Loop)

For integration of the A 30.3 into a home cinema system, the A 30.3 offers an **AV Pass Through** function for the high-level inputs **RCA2**, **RCA3** (13) and **XLR** (15). If this function is activated, the input signal is reproduced at a fixed level.

NOTE: In addition to the volume control (see section 2.5), the options for adjusting the input sensitivity (see section 2.6), the balance (see section 2.7) and all sound settings (see section 2.8) of your A 30.3 are disabled.

1.11.1 Activating the AV Pass Through function

To activate the **AV Pass Through** function for an available high-level input (13,15), first select the desired input with the source selector (3) in normal operating mode. Then switch the unit to stand-by mode with the on/off button. Then keep the **LEVEL** button (7) pressed while switching on the unit with the on/off button (1). Wait a short moment until the starting process is completed. During the startup process, the name of the selected input is shown on the left side of the display and a hint to the selected mode is shown on the right side.
FIX = **AV Pass Through** function is **activated** (fixed output level)
VAR = **AV Pass Through** is **disabled** (variable output level)

To activate the **AV Pass Through** function for another high-level input (13,15), select the desired input with the source selector (3) and repeat the procedure described above.

NOTE: When the **AV Pass Through** function is activated, the right part of the display shows **FIX** instead of a volume value. Please note that when the **AV Pass Through** function is activated, the volume control (9), **BASS** button (4), **TREBLE** button (5), **LEVEL** button (7) and **BALANCE** button (8) have no function. When one of these controls is pressed, the **FIX** indicator flashes briefly - but the corresponding function is only available again after deactivating the **AV Pass** Through function (see following section).

1.11.2 Disabling the AV Pass Through function

The **AV Pass Through** function remains active even after the power is turned off for a selected high-level input. To deactivate the **AV Pass Through** function, first select the desired high-level input with the source selector (3) in normal operating mode. Then switch the unit to stand-by mode with the power button. Now hold down the **LEVEL** button (7) while you switch on the unit with the on/off button (1). Wait a short moment until the starting process is completed. During the startup process, the name of the selected input is shown on the left side of the display and a hint to the selected mode is shown on the right side. When the display **VAR** appears instead of **FIX**, the **AV Pass Through** function is disabled for the selected high-level input.

To deactivate the **AV Pass Through** function for another high-level input, select the desired input with the source selector (3) and repeat the procedure described above.

NOTE: To deactivate the **AV Pass Through** function of several high-level inputs with one keystroke, you can also use the **RESET** function (see section 2.9). However, please note that a reset will reset the entire device to its factory settings.

1.12 Connecting speakers

The speaker outputs of the A 30.3 are equipped with high-quality speaker terminals for cable lugs or bare cables. To connect loudspeakers, cables with corresponding connectors are needed. These are connected to the speaker outputs (21) of the A 30.3. Only use speaker cables of good quality and sufficient cross-section for connecting the speakers. Ask your dealer to recommend the cable with the best sound quality for your speaker.

Please ensure correct polarity when connecting the speakers. The upper output sockets of the A 30.3 must be connected to the red speaker terminals or those marked with a plus sign. Right and left channel must have the same speaker polarity.

1.13 Connection of switching voltages

If an optionally connected power amplifier has a control input, you can connect the switching signal of the A 30.3 (**TRIGGER OUT**) to one of the two switching outputs (18). This allows you to conveniently switch on additional power amplifiers or subwoofers remotely. For details on the pin assignment of the control socket please refer to section 1.3.

1.13.1 AIR Trigger (AVM Intelligent Remote)

If you have connected a compatible AVM power amplifier model of the MA or SA series as a separate power amplifier, it can be switched on and off from your A 30.3 using the RCA or XLR cable connected to one of the two analog outputs (**FIX** or **VARIABLE**). You do not need a separate control cable for this. Please refer to the corresponding documentation regarding the operating mode of your power amplifier.

1.14 Connecting headphones

The A 30.3 integrated amplifier is equipped with a 6.3 mm jack socket for connecting headphones (10). Please note that both the preamplifier output **VARIABLE** (20) and the speaker outputs (21) are deactivated as long as headphones are connected. The recording output **FIX** (19) remains active.

1.15 RC 3 remote control

The included RC 3 remote control made of aluminium allows you to control your A 30.3 comfortably. The ON and OFF buttons are responsible for all AVM devices of a system and switch them on and off together.

As an alternative to the RC 3 remote control supplied, you can also use the models RC 8 or RC 9 from AVM. These two remote controls allow you to control a wider range of functions and are available from your dealer for an additional charge.

The keys < **INPUT** > are used to select the input of an available source, which is shown on the display of the A 30.3.

Use the < **VOLUME** > buttons to adjust the desired output volume of the A 30.3. Further buttons such as < **STATION** >, < **SKIP** >, **STOP**, **PLAY** serve to control further AVM components. For example, the **STOP**, **PLAY**, and < **SKIP** > buttons enable control of a CD player. The **PLAY** key switches between **PLAY** and **PAUSE** when pressed several times - the **STOP** key ejects the

CD when pressed several times. The buttons < **SKIP** > switch to the next / previous track on a CD when pressed briefly - when pressed longer, the search is accelerated through the current track.

Please note the following if the remote control does not work properly: Always hold the remote control with the front end facing the device you want to operate. If the remote control is placed too far away from the device to be controlled, or if the batteries are dead or objects are placed between the remote control and the device to be controlled, the remote control may not function properly.

1.15.1 Battery replacement
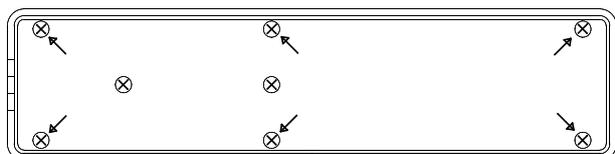
Bottom of the RC 3 remote control

If the range of the remote control decreases significantly, new batteries must be installed. Remove the six screws on the bottom of the remote control marked with arrows (**ATTENTION**: do not open the two middle screws without arrow marking!) Now turn the remote control over and take out the bottom with the printed circuit board. Now remove the used batteries and replace them with two new ones of the same type (Lithium button cell 3V, type CR2032). Make sure that the polarity of the batteries is correct when inserting them (marking "+" upwards), otherwise the electronics may be damaged.

2 Operation

2.1 First power on / self-test

When the A 30.3 is switched on for the first time, a self-test is performed first, provided that the unit was previously completely disconnected from the mains using the mains switch (22). The unit checks the configuration and functionality of the installed components and then goes into stand-by mode. This process may take a few seconds.

2.2 Switching device on / off

With the on / off button (2) you can switch between operation and stand-by mode. In stand-by mode, the display is dark and the operation indicator LED (1) lights up. As soon as the machine is in operation, the operation indicator goes out and the display (6) is activated.

ATTENTION: The device is not completely disconnected from the power supply in stand-by mode. For complete disconnection from the power supply, press the power switch (22) at the rear of the device or pull the power cable out of the cold appliance connection (23).

2.3 Input selection

The input selection is done by turning the **INPUT** source selector (3). Three analog high-level inputs **CINCH** (13), one analog high-level input **XLR** (15), two digital inputs **OPT**, **COAX** (16), one **USB B** input (14), and one channel for receiving a high-resolution **Bluetooth** signal are available.

The currently selected program source is shown in the display (6) on the left side (e.g. IN **RCA1, IN RCA2, RCA3, IN XLR, BLUTOOTH, DIG USB, DIG COAX, DIG OPTO**).

2.4 Bluetooth

The integrated Bluetooth function enables the wireless transmission of a music signal from a Bluetooth-enabled playback device such as a smartphone, tablet or computer. In order to use the Bluetooth function, an appropriate playback device must first be connected to your A 30.3. This process is also called **Pairing** and is done in no time at all.

First select the Bluetooth input with the source selector (3). The display shows **ON AIR** in the lower left corner, indicating that the Bluetooth input is active and ready for operation. Then navigate to the Bluetooth menu of your player. Make sure that the Bluetooth function is activated and start the search process for available Bluetooth devices in your vicinity. If in doubt, please refer to the documentation of the respective manufacturer for details on how to operate the Bluetooth settings on your playback device.

Now select the A 30.3 ("AVM-30.3") as the device for audio playback and wait a short moment until the connection is established. The display **CONNECTED** on the lower left side of the display (6) indicates a successful connection of both devices. In this state the device is locked for further playback devices so that the already started music playback cannot be interrupted by another Bluetooth playback device. To start music playback from another Bluetooth device, the Bluetooth connection to the A 30.3 must first be interrupted on the current device. The message **ON AIR** appears again in the lower left corner of the display. You can then pair your A 30.3 with another device.

NOTE: If the Bluetooth input is not selected, the integrated Bluetooth module is disconnected from the power supply. The antenna does not emit any signal in this state. This prevents possible interference. As soon as the Bluetooth input is selected again, your amplifier automatically reconnects to the last connected Bluetooth device.

2.5 Volume settings

Use the **VOLUME** rotary control (9) to adjust the volume. The currently selected volume value is shown on the right side of the display (6) with a numerical value from 0 to 99.5. If FIX is displayed at this point, the **AV Pass Through** function is activated for the selected input and the volume control is disabled. For details on the **AV Pass Through** function, refer to section 1.11 **AV Pass Through (Home Theater Loop).**

2.6 Input sensitivity (level adjustment)

Often the signal sources present in a hi-fi system have different levels. When switching between them, this results in a volume jump, which can be prevented by individually adjusting the input sensitivity of the inputs. Select a local digital or analog input or **BLUETOOTH** with the source selector (3) and adjust the monitoring volume to a comfortable level with the volume control (9). Check by switching to other inputs whether the levels are nearly identical. If there is a difference, press and hold the **LEVEL** button (7). By turning the volume control (9) you can now adjust the level of the selected input in a range of -9.5 to +10.0 dB. After releasing the **LEVEL** button (7), the sensitivity value for the selected input will be stored and the unit will return to its normal operating state. Repeat this procedure until all levels are approximately identical.

NOTE: During level adjustment, all remote controls are disabled. While you are making menu settings on the main unit, the supplied RC 3 remote control cannot be used.

2.7 Balance

By pressing and holding the balance button **BAL** (8) the right-left balance of the output signal can be adjusted globally for all input channels by means of the volume control (9). The current setting is shown in the display (6) on the right side while the **BAL** button is pressed. As soon as you release the button, the set value is stored and the unit returns to its normal operating state.

2.8   Sound settings (Bass/Treble)

By pressing and holding the balance button **BAL** (8) the right-left balance of the output signal can be adjusted globally for all input channels by means of the volume control (9). The current setting is shown in the display (6) on the right side while the **BAL** button is pressed. As soon as you release the button, the set value is stored and the unit returns to its normal operating state.

The integrated tone control electronics for adjusting the bass or treble components of the A 30.3 is activated as soon as you make a setting under **BASS** or **TREBLE**. If a neutral setting (**BASS** = 0, **TREBLE** = 0) is selected, the tone control electronics will remain deactivated until one of these parameters is changed. The display will show **TONE ON** when the tone control is activated and **LINEAR** when it is deactivated.

2.9   Reset (factory settings)

The **RESET** option offers you the possibility to reset the device to the original delivery state and thus to all factory settings. The following settings are reset in the course of a **RESET**:
✓ Individual input sensitivities (level settings). For details see section 2.6.
✓ Cross-channel adjustments of the right-left balance (see section 2.7) and the bass/treble sound settings (see section 2.8)
✓ AV Pass Through function for high level inputs (13,15) (see section 1.11)

Die **RESET** Option bietet Ihnen die Möglichkeit, das Gerät in den ursprünglichen Auslieferungszustand und damit auf alle Werkseinstellungen zurückzusetzen. Folgende Einstellungen werden im Zuge eines **RESETS** zurückgesetzt:
✓ Individuelle Eingangsempfindlichkeiten (Pegeleinstellungen). Details siehe Abschnitt 2.6.
✓ Kanalübergreifende Anpassungen der Rechts-Links-Balance (siehe Abschnitt 2.7) und der Bass/Treble-Klangeinstellungen (siehe Abschnitt 2.8)
✓ **AV Pass Through** Funktion für Hochpegel-Eingänge (17,19) (siehe Abschnitt 1.11)

To perform a **RESET**, switch off the device with the mains switch (22) on the back. Then press and hold the **TREBLE** button (3) and the **LEVEL** button at the same time and switch the unit on again with the power switch (22) on the back. Now press the **BAL** button (8) to perform the **RESET** or **BASS** (4) to cancel the process. Wait until the unit changes to standby mode. Your A 30.3 integrated amplifier is now reset to its factory settings.

2.10 Automatic power-off

The A 30.3 integrated amplifier is equipped with an energy-saving automatic power-off function (**SET AUTO OFF FUNCTION**). If no music is played for a period of 20 minutes or no function is activated on the unit, the A 30.3 automatically switches to standby mode. By pressing the on/off button (2) the unit can of course be switched on again at any time.

The automatic switch-off can be deactivated or reactivated as follows: Switch off the unit with the rear power switch (22). Keep both keys **BASS** (4) and **TREBLE** (5) pressed and switch on the unit with the rear power switch (22). Depending on the selected setting, the display shows in the second row under **current: ACTIVE** or **NOT ACTIVE**. You can change the setting by pressing the **LEVEL** button (7) and then permanently store it by pressing the **POWER** button (2).

NOTE: Please note that disabling the auto power off feature will result in higher power consumption, as the device will remain in operation even if you do not listen to music with it for a longer time.

2.11 Demo Mode

The A 30.3 integrated amplifier is equipped with a so-called Demo Mode. This demo mode is primarily intended for specialist dealers to show the respective features of the unit in the form of a 'slide show' on the display (6) while the unit is presented, for example, in a store or exhibition.

To activate the Demo Mode, first switch off the device via the power switch (22). Then keep both buttons **LEVEL** (7) and **BAL** (8) pressed while switching on the device via the power switch (22).

The Demo Mode is deactivated by switching off the mains voltage via the mains switch (22). As soon as you switch on the unit again, it will return to normal operating mode.

3   Appendix

3.1   Care of the housing

The surface and the printing on the housing are largely scratch-resistant. The A 30.3 can be cleaned with mild soapy water or a gentle glass cleaner and a soft duster.

ATTENTION: Do not allow any liquid to enter the inside of the housing during cleaning. In addition, for safety reasons, the power cord should be disconnected before damp wiping. Do not use solvents or abrasive cleaners that could damage the surface or printing on the housing.

3.2   Troubleshooting

Often, supposed defects can be traced back to operating errors. Sometimes other components connected to the A 30.3 are also responsible for a malfunction. Before you contact your dealer or us about a defect, please check the following list to see if you can correct the malfunction yourself, e.g. by resetting the device to the factory settings - see **RESET** in section 2.9.

1. No music playback

a) Accidentally switching to stand-by mode via remote control. Press the on/off button (2).
b) If the display is dark and the operation indicator LED (1) is not lit, the mains fuse may be defective. Since this is usually caused by a defect in the power supply unit or amplifier electronics (e.g. due to a lightning strike), please contact your dealer.
c) The unit has automatically gone into standby mode after a period of 20 minutes without playing music or activating a function on the unit (see section 2.10)

2. The device switches off during operation

a)   If no music is played for a period of 20 minutes or if a function on the unit is activated, the automatic switch-off function of the unit is activated and the unit switches automatically to standby mode (see section 2.10 **Automatic switch-off).**
b)   One of the protective circuits of the unit (e.g. overload, overtemperature, short circuit) has responded. Please contact your specialist dealer.

3. Remote control without function

a)   The batteries of the remote control are empty. Please replace the batteries (see section 1.15.1)
b)   There is no direct connection between the remote control and the device or the distance is too great.

3.3   Conditions of warranty (EU only)

If despite expectations a defect occurs that cannot be repaired by yourself or your dealer, we undertake the repair of your unit free of charge for up to three years from date of purchase. The warranty covers the costs of material and working time, transport costs are to be borne by the owner.

Provisions for this warranty are:

- The unit must have been purchased from an authorised dealer. Equipment from other sources will not be repaired, not even at charge.

- The warranty registration card, together with a copy of the bill of sale, must be received by us within four weeks of the date of purchase.

- The defect must not have been caused by improper handling or misuse.

- Return the unit to us only in its original packing. If this is not possible, we are entitled to refuse acceptance. We will not assume responsibility for transport damage under any circumstances.

- A short description of the defect is to be included with the returned unit.

- In cases of doubt we reserve the right to request a copy of the bill of sale.

- We also reserve the right to levy a handling charge for items returned without good or valid reason, or if the unit proves to be not defective.

NOTE: If you are returning the unit from a country other than Germany you should ensure that correct export documents are obtained. We cannot accept any charges for costs arising from improper or incomplete export documentation.

If you have purchased your unit from a dealer outside Germany, please refer to him or the relevant importing firm to process the warranty.

3.4   Specifications

3.4.1   Analog inputs & outputs

Input sensitivity RCA	42 mV +/-9,5 dB, adjustable
Input sensitivity XLR	84 mV +/-9,5 dB, adjustable
Signal-to-noise ratio RCA (500 mV)	87dB / 93dB (A)
Signal-to-noise ratio XLR (1 V)	90dB / 93dB (A)
Input impedance RCA	6,8 kΩ
Input impedance XLR	40 kΩ
Output impedance LINE OUT	1 kΩ
Output impedance PRE OUT	1 kΩ
THD (25 W / 4 Ω)	< 0,03 %
Frequency Response (4 Ω)	<10 - >150kHz
Damping factor (8 Ω)	> 200 (1kHz)
Power	2 x 100 W (8 Ω) / 2 x 150 W (4 Ω)

3.4.2   Digital inputs & outputs, Bluetooth

Sampling frequency SPDIF	32 to 192 kHz / 24 Bit (opt. up to 96/24)
Sampling frequency USB	32 to 48 kHz
Frequency Response SPDIF	<20 - >50 kHz
Frequency Response USB	<20 - 24 kHz
Input format DIG IN OPT	SPDIF, linear PCM 32 - 96 kHz / 16 - 24 Bit
Input format DIG IN COAX	SPDIF, linear PCM 32 - 192 kHz / 16 - 24 Bit
USB input	Linear PCM to 48 kHz / 16 Bit
Input impedance DIG IN COAX	75 Ω
Input impedance DIG IN COAX	According to IEC 908

Bluetooth Standard	v4.2
Codecs:	SBC, MP3, AAC, FastStream, aptX
Samplerate (adaptive):	Max 96 kHz/16Bit
Frequency Response:	30 Hz – 20 kHz
Signal-to-noise ratio:	96 dB

3.4.3 Miscellaneous

Supply voltage	230 V / 50 Hz
Power consumption	45W
Power consumption max. (4 Ω)	500 W
Power consumption stand-by	0,3 W
Trigger Out Voltage	+5 V
Dimensions (B x H x T)	430 mm x 110 mm x 345 mm
Weight	12 kg

Changes reserved without prior notice.
2020/11/25.