Operating instructions
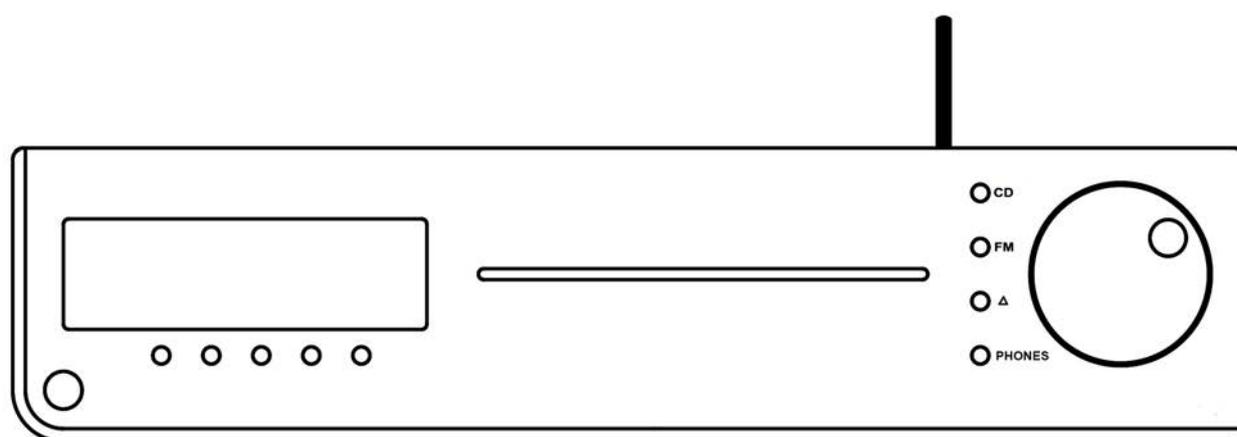
INSPIRATION CS 2.2

AVM
AUDIOPHILE MASTERPIECES

Caution

This unit contains a class 1 laser diode. Do not open. Invisible laser radiation can damage your eyes.

Laserdiode Typ: Ga-Al-As
Wavelength: 755 - 815 nm (25 °C)
Output power: max. 0,7 mW max.

```
CLASS 1 LASER PRODUCT
LASER KLASSE 1
```

Declaration of conformity (for EC only)

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

CE

the necessary measurements were taken with positive results.

AVM Audio Video Manufaktur GmbH
Daimlerstraße 8
D-76316 Malsch
Germany

www.avm.audio
info@avm.audio

Dear customer

Thank you for purchasing this AVM product. You now own a versatile, excellent sounding hifi component. Before enjoying music, please read this manual carefully. After that you will know how to use your new CS 2.2 in the optimal way.

Please note that the range of functions of your AVM hifi component can be easily expanded by means of a software update at any time. Hence, the present operating instructions will require continued updates going forward. You you can always download the most current version from our website at **www.avm.audio**.

Sincerely yours,

The AVM Team

Table of contents

1 Getting started

1.1 What's in the box?

- **INSPIRATION CS 2.2 Compact Streaming CD-Receiver**
- **WiFi antenna**
- **Power cable**
- **Optional accessory: RC 9 remote control with docking station, power supply unit, USB charging cable**

CAUTION: 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.
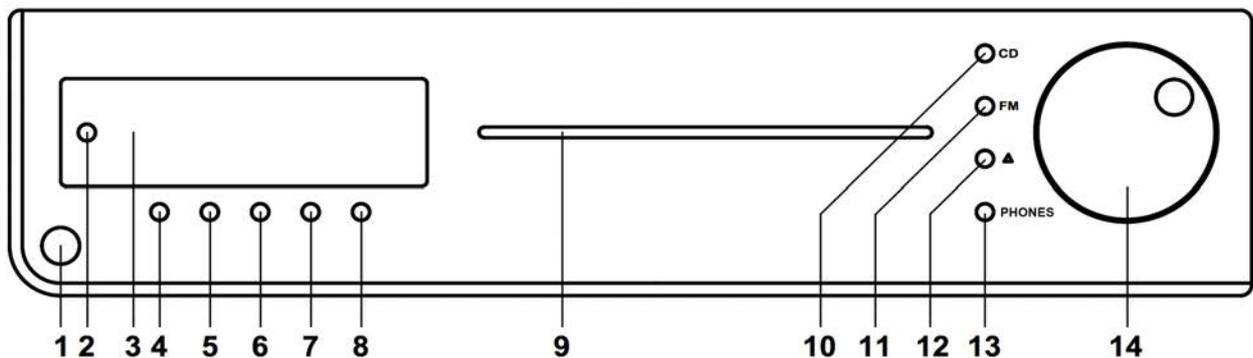
1	Power button (on / off)	
2	Control LED	
3	Display	
4	Multifunctional button (soft key)	
5	Multifunctional button (soft key)	
6	Multifunctional button (soft key)	
7	Multifunctional button (soft key)	

8	Multifunctional button (soft key)	
9	CD slot	
10	Source selector CD	
11	Source selector Tuner	
12	Source selector	
13	Headphone output	
14	Volume knob	
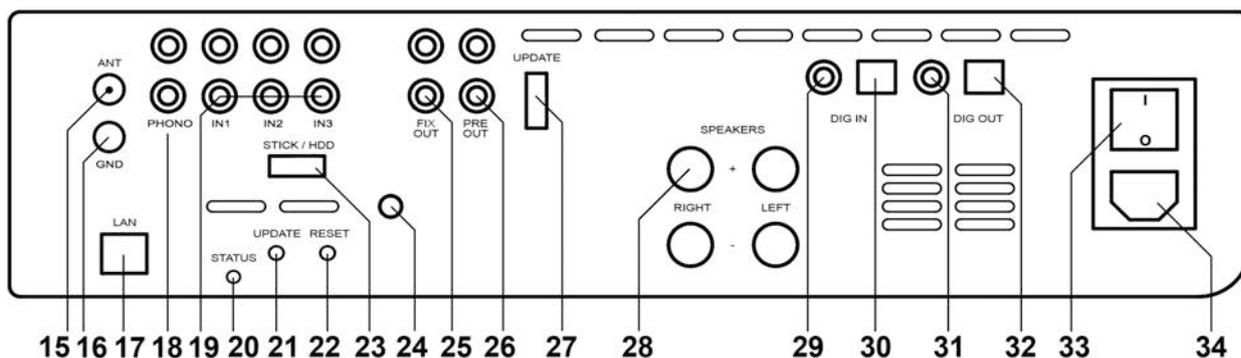
15 Antenna socket	25 Output for recorder (fixed level)
16 Ground socket for turntable chassis	26 Preamplifier output
17 Network port (LAN)	27 Configuration port
18 Phono input	28 Speaker terminals
19 High-level analogue inputs	29 Digital input coaxial
20 Status LED	30 Digital input optical
21 Update button (Streaming module)	31 Digital output coaxial
22 Reset button (Streaming module)	32 Digital output optical
23 USB input	33 Mains switch
24 WiFi antenna socket	34 Mains connector

1.3 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 malfuctions.

1.4 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 amp (near mains connector).

CAUTION: Keep the unit switched off until all audio connections are made.

1.5 Connecting analogue signal sources

High-level sources
Connect the outputs of your signal sources to the inputs (19). The upper row is for left channel, the lower row is for right channel.

Turntable
Connect the output of your turntable with phono inputs (18) and connect the chassis ground wire to the ground connector (16). The CS 2.2 phono input is suitable for MM cartridges as well as for high and medium level MC cartridges. Sensitivity can be adjusted (see 2.4.1).

1.6   Connecting digital signal sources

Inputs SPDIF/ (RCA Cinch, optical)
Connect the outputs of your digital sources to the corresponding inputs of the CS 2.2 (29, 30).

Digital out
The input of a digital recorder must be connected to the digital outputs (31, 32). The signal on the digital outputs depends the selected source (built-in CD, dig in).

1.7   Connecting a recorder

Connect the recorder's output to one of the inputs (19). The inputs of the recorder must be connected to the fixed level output (25).

1.8   Connecting a subwoofer

If you use an active subwoofer (with built in power amplifier), simply connect it's inputs to the unit's pre out (26) and adjust the bass level at the subwoofer.

1.9   Connecting loudspeakers

Connect the speakers to the speaker terminals (28). Use only good speaker cables with sufficient diameter. Make sure, that the red terminals are connected to the red or "+" terminals of the speakers and the black terminals to the black or "-" terminals of the speakers.

1.10 Tuner antenna

Connect the antenna cable to the antenna socket (15).

1.11 RC 9 remote control

The optionally available RC 9 remote control allows for easy and comprehensive control of your AVM devices. Before you can use the RC 9 together with your AVM device, both components need to be connected. This process is also referred to as **Pairing**. In order to start the pairing process, please follow the instructions as described in section 1.11.1. A detailed description of the entire functionality of the optionally available RC 9 remote control can be found in a separate manual on the product page of our AVM website at www.avm.audio.

1.11.1 Pairing

In order to control your AVM device with a RC 9 remote control, both components need to be linked first. This process is also referred to as **Pairing**. To start the pairing process, please switch off your AVM device by using the mains switch (33) on the rear side of the unit. Now please navigate to the **Systems Settings** menu on your RC 9 remote control by pressing the Settings key and navigate to the menu item **Start Pairing** *without* selecting it with the **Enter** key yet. Switch on your AVM device by using the mains switch (33) on the rear side of the unit and immediately press the **Enter** key of your RC 9 remote control to now start the **Pairing** process. The name of a succesfully detected device will instantaneously be shown on the display of your RC 9 remote control and can be edited by using the alphanumeric input keys of the RC 9 remote control. After confirming the name of the paired device with the **Enter** key, you can also choose one of four available **Hotkeys**. Details on how to use the **Hotkey** function of your RC 9 remote control can be found in a separate manual on the RC 9 product page on our website at www.avm.audio. By pressing the **Enter** key on your RC 9 remote control again, the pairing process is completed.

1.12 RC S App for iOS and Android

The RC S App for iOS and Android will turn your smartphone or tablet into an easy-to-use remote control and provides a variety of intuitive features to get the most out of your network-enabled AVM device. The RC S App is available free of charge and can be downloaded from the Apple App Store and the Google Play Store. A detailed description of the entire functionality of the RC S remote control can be found in a separate manual on the product page of our AVM website at www.avm.audio.

1.13 Network installation (LAN, WiFi)

In order to use the variety of integrated streaming funtions such as **Music Server** (local NAS drives etc.) or **Online Services** (**TIDAL**, **Qobuz**, **Webradio**, **Podcasts**) your AVM device needs to be connected to the internet via a router in your local home network. You can choose from a wired LAN connection (17) or a wireless WiFi connection. In order to use the wireless WiFi connection of your AVM device, the included WiFi antenna needs to be installed first (24).

LAN vs. WLAN

Before using the wireless WiFi functionality of your AVM device, an initial set-up of a wired LAN connection is mandatory. This non-recurring step is required to set-up an initial WiFi connection between your AVM device and the RC S App via your local home network.

NOTE: To ensure a smooth WiFi operation of your device, it is highly recommended to remove the LAN cable after the intial set-up process described in section 1.13.2 has successfully been completed. This is because a wired LAN connection is always prioritized by the device which automatically leads to a wired LAN connection as soon as a LAN cable is connected at a later time and the device has been restarted by switching it off and on again via the mains switch on the rear side of the unit (33).

Please make sure to carefully follow all steps below to successfully set up a wired LAN connection or a wireless WiFi connection.

1.13.1 Setting up a wired LAN connection

✓ Please switch off the AVM device on the rear side of the unit (33).

✓ Plug a LAN cable from your local router into the LAN port of the AVM device (17).

✓ Switch on the device on the rear side of the unit (33). Wait until the device has started and went into stand by mode. Now, switch it on with the power button on the front side (1).

✓ After a brief starting process, your AVM device automatically connects to your local home network and is ready to be operated via the RC S App for iOS and Android.

✓ Launch the RC S App on your smartphone or tablet. The RC S App will now automatically search and list all available AVM devices in your local network with their respective device name and IP adress (e.g. "192.168.xxx.x" etc.).
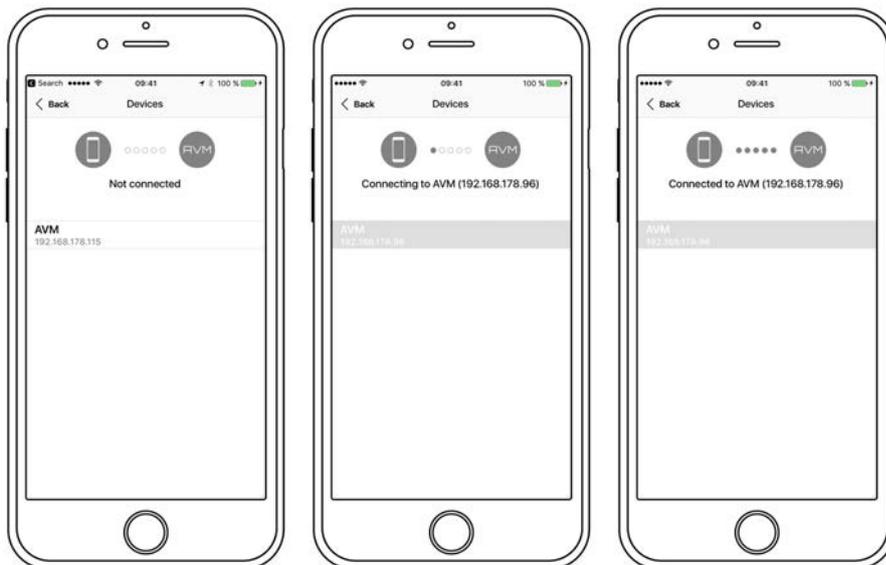
✓ Choose an availbale device and wait until a connection is established.

1.13.2 Setting up a wireless WiFi connection

To set up your AVM device with a wireless WiFi connection, you need to download and install the free RC S App for iOS and Android or use the optionally available RC 9 remote control. The following instructions refer to the installation process by use of the RC S App. For details on how to connect your AVM device with the RC 9 remote control, please refer to section 1.11.1. A detailed description of the entire functionality of the RC 9 remote control and the RC S App for iOS and Android can be found in a separate manual on the respective product pages of our AVM website: www.avm.audio.

NOTE: Before using the wireless WiFi functionality of your AVM device, an initial set-up of a wired LAN connection is mandatory. This non-recurring step is required to set-up an initial WiFi connection between your AVM device and the RC S App via your local home network.

✓ Please switch off your AVM device on the rear side of the unit (33).

✓ Plug a LAN cable from your local router into the LAN port of your AVM device (17).

✓ Switch on the device on the rear side of the unit (33). Wait until the device has started and went into stand by mode. Now, switch it on with the power button on the front side (1).

✓ After a brief starting process your AVM device automatically connects to your local home network and is ready to be operated via the RC S App for iOS and Android.

✓ Launch the RC S App on your smartphone or tablet. The RC S App will now automatically search and list all available AVM devices in your local network with their respective device name and IP adress (e.g. "192.168.xxx.x" etc.).
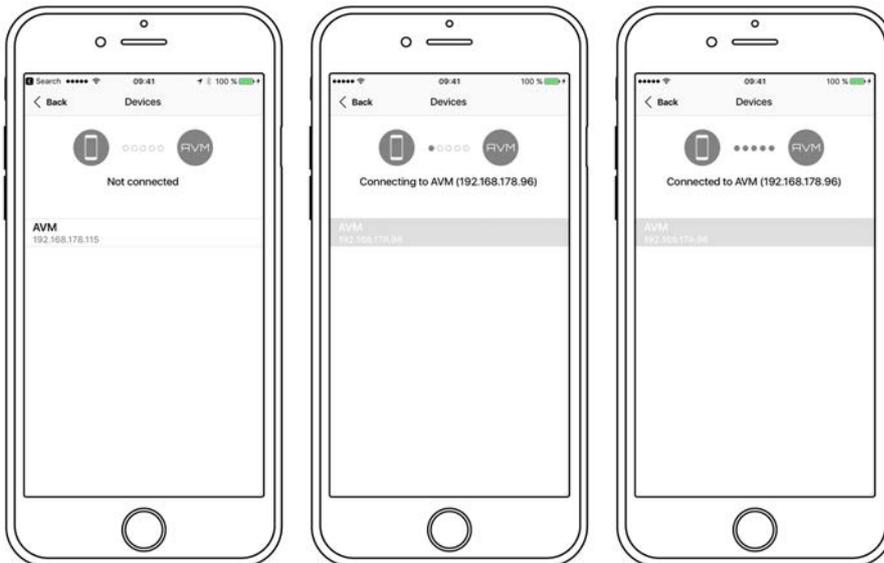

✓ Choose an availbale device and wait until a connection is established.
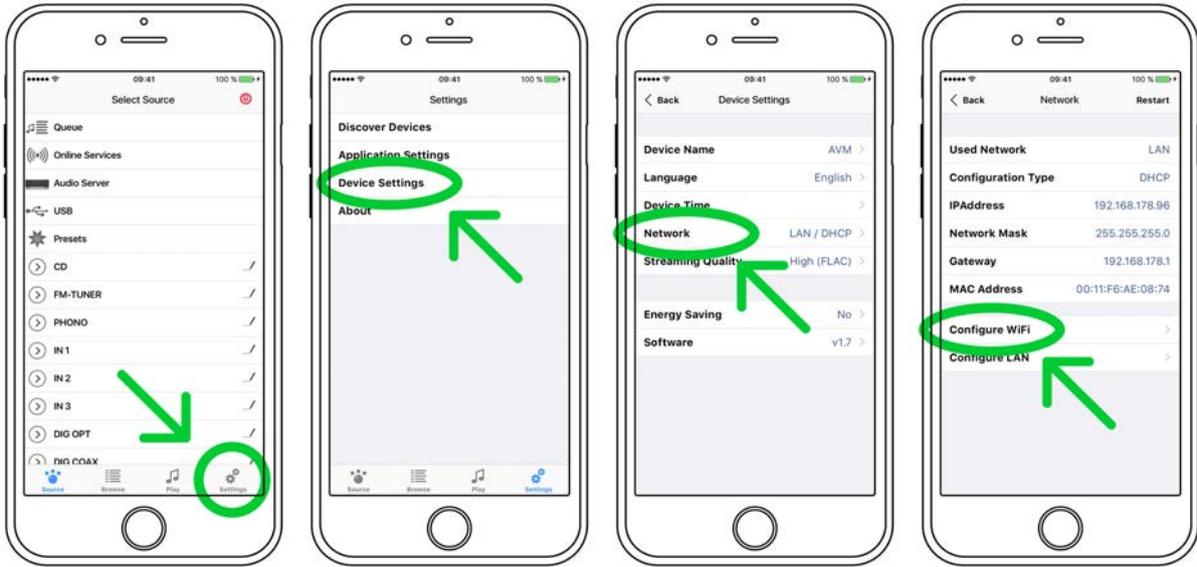
✓ Navigate to the **Settings** tab on the RC S App and choose **Device Settings** / **Network** / **Configure WiFi.**

✓ After you have selected the **SSID** menu option, you will be provided with a list of all available WiFi networks. Choose a WiFi network and select a respective **Security** and **Cipher** setting.
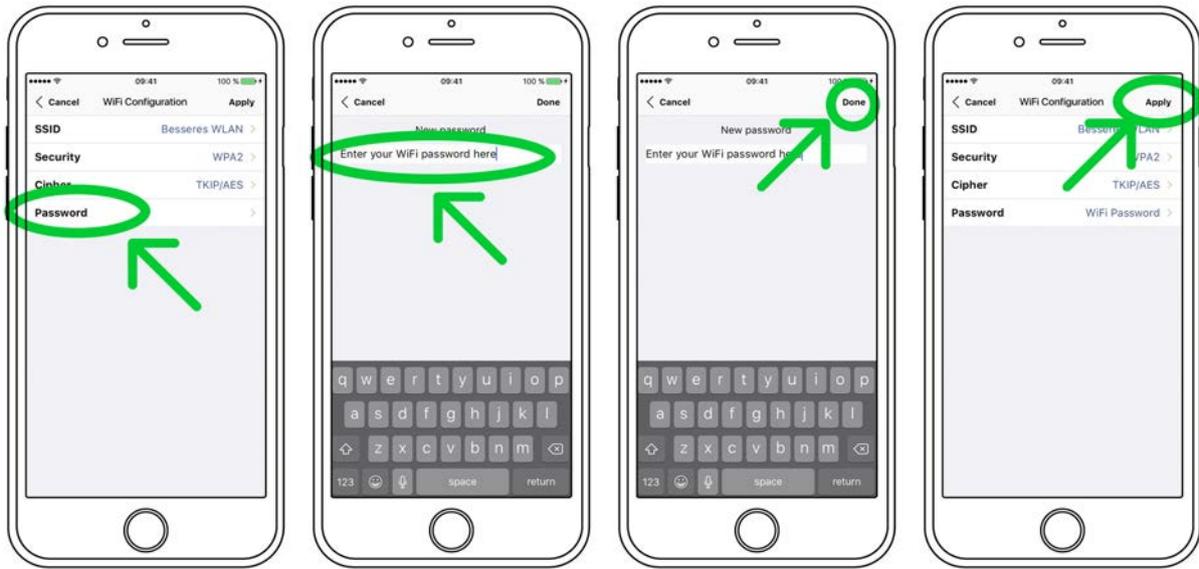
- ✓ Choose the menu option **Password** and enter your WiFi password. Confirm with **Done** at the upper right-hand corner. Now, confirm your WiFi settings with **Apply** at the upper right-hand corner.

- ✓ Under **DHCP**, you will be asked if your AVM devide should obtain an IP adress automatically (if yes, please make sure the **DHCP** option is activated). Now, confirm your choice with **Apply** at the upper right-hand corner and **remove the LAN cable from the LAN port (17) right afterwards.**

  CAUTION: Unless your local home network has been configured with static IP addresses, we highly recommend to activate the **DHCP** option.

- ✓ The integrated streaming module of your AVM device will now restart. This process can take up to 30 seconds. Please make sure to not switch off the device while it is restarting (which is happening under the hood without any indication on the display of the device).

- ✓ The AVM device is now connected with your wireless WiFi network.

PLEASE NOTE: When switching from a wired LAN connection to a wireless WiFi connection or vice versa, a restart of the integrated streaming module is always required. To restart the streaming module via the RC S App, please go to the **Settings** tab, choose **Device Settings**, **Network**, and press the **Restart** button on the upper right-hand corner. Switching off the device on the rear-side with the mains switch (33) also causes a restart of the integrated streaming module.

1.14 Software updates

To get the most out of your AVM HiFi streaming system, please make sure you always keep the RC S App and the streaming software of your AVM device up-to-date. You can download the latest version of the RC S App in the Apple App Store or the Google Play Store. To check whether your AVM device runs the latest version of the streaming software, please make sure the device is connected to the internet (see section 1.13) and follow the instructions below.

✓ **Streaming software update via the RC S App**: Navigate to the Settings tab and choose *Device Settings / Software / Check for Updates*.

✓ **Streaming software update via the RC 9 remote control**: Navigate to the *Receiver Settings* menu and choose *Software / Update*.

2 Basic operation

2.1 First operation / self test

In case the CS 2.2 was not connected to mains a self test will be performed when it is switched on by the mains switch (33) for the first time. The unit will check its configuration and that all the installed components work properly. The procedure is shown in the display. Afterwards the unit will switch to stand by.

2.2 Switching on / stand by

Using the button power (1) you can switch between on (operate) and stand by. When switched on, the display (3) lights up and the LED (2) is off. In stand by mode the display is off and the LED is on to indicate that the unit is still connected to mains.

CAUTION: When switched to stand by the unit is still connected to the mains. In case of a thunderstorm or if you leave the house for a longer time we recommend that you switch the amplifier off by using the mains switch (33) or pull the mains plug (35).

2.3 Selecting the signal source

A local signal source (analog inputs, digital inputs, phono input) can be selected by pressing the source selector (12) until the desired source appears on the display. For selecting Tuner or CD, use the direct access keys (10,11). Other sources such as **Online Services** (**TIDAL, Qobuz, Webradio**, **Podcasts**), **Music Server** or **USB (STICK HDD)** (23) can only be accessed via the optional RC 9 remote control or the free RC S App for iOS and Android.

CAUTION: If you switch to another source while playing a CD, the drive will stop first. This may take a few seconds. If you activate a digital input that has no valid signal, **NO DIG SIGNAL** or **NO USB PLUGGED** is shown on the display (3).

2.4 Volume setting

Use the rotary encoder on the right-hand side (14) to set the desired volume. Depending on the rotating speed the volume increases / decreases in steps of 0.5 dB (slow) or in steps of 2 dB (fast). The current volume setting is shown on the display (3).

NOTE: Please note that if the volume is changed using the optionally available RC 9 remote control, the level always increases / decreases in 2 dB steps.

2.4.1 Setting of input sensitivity

The level of signal sources differs often by several dBs. You recognize a step in volume, when switching between two different inputs. With the sensitivity setting menu you can avoid this. The sensitivity of each input can be adjusted between – 9.5 dB and + 10.0 dB.

Select any input (except Tuner or CD) and chose a convenient volume level. Now press the multifunctional button 6 under the display for more than 2 seconds. The button is now marked **EXIT LVL**. Now you can switch between the sources (also Tuner and CD) and adjust the levels by using the volume knob (14). Pressing this multifunctional button 6 under the display again will exit the level setting mode and bring the unit back to normal operating mode.

NOTE: While the level setting mode is active the unit will not respond to any RC 9 remote control command.

2.5 FM Tuner

All basic functions of the FM Tuner can be accessed by the buttons right under the display (4-8). More sophisticated functions (RDS display, mono/stereo, search mode etc.) are available via the **Advanced Settings** menu (see section 3).

NOTE: All **Webradio** features can be accessed via the optionally available RC 9 remote control or the free RC S App for iOS and Android.

2.5.1 Tuning

Depending on the selected mode (manual / auto, see section 3.2.2) the buttons under the display (7, 8) are named **< AUT >** oder **< MAN >.** In **AUT** mode, a tip on one of the buttons lets the tuner automatically seek the next upper or lower station. In **MAN** mode, the frequency changes in 50 kHz-steps as long as the button is pressed. In this case, the tuning indicator shown in the display (3) helps you to tune correctly to the desired station. If tuning is correct it will show **locked**.

2.5.2 Station and memory

Storing a new radio station
If you want to store a certain station in the memory, press the button **MENU** (6) under the display (3) for more than 2 seconds. The display will propose the next free memory position for storage (for example: if 5 stations are already stored, position 6 will be proposed). Using the **MOVE** buttons (4, 5) you can change the position. Now press **STORE** (8) to store at the selected memory position. If a radio station is already stored at the selected position, the new station will be saved to the respective position while moving any other station one step further.

Modifying, moving or deleting an existing station

If the tuner is set to an already stored station you can change its settings (mono/stereo, bandwidth and more), move it to a different position or delete it. First off, adjust any advanced setting for a stored radio station and press the **MENU** button (6) under the display (3) for more than 2 seconds. Using the buttons **MOVE** (4, 5) allows you to change the position of the selected station before storing with **STORE** (8). **DELETE** (7) will remove the station from the memory. **EXIT** will bring the unit back to normal operating mode without changing the memory.

NOTE: The station memory allows you to store up to 63 stations. It stores not only their frequency, but also a range of individual settings such as mono/stereo, bandwidth or other.

2.5.3   Selecting a station out of the memory

The buttons **< STAT >** (4, 5) select the stations stored in the memory. A short tip switches to the next / previous station. Holding the button down scans automatically up / down. The number of the actual station is shown in the display (**PGM** xx).

2.6   CD Player

The basic functions of the CD Player such as **Play**, **Pause**, **Stop** and **Eject** can be accessed by the buttons right under the display (4 – 8). For more sophisticated functions such as repeat, random etc. please refer to section 2.6.4, 2.6.5, and 2.6.6.

2.6.1   Insert / eject

Insert a CD

The CS 2.2 has a slot-in CD drive. Insert the CD (cover side up) and push slightly. The drive will now automatically draw the disc inside. After that the player reads the TOC and shows it on the display. Furthest left is the number of the actual track followed by the total number of tracks on the CD (for example "1/17"). The middle of the display shows the total playing time of the CD.

NOTE: If there is still a CD inside or the unit is in stand by, the slot will be blocked. If the inserted disc is not readable (DVD, Data CD) the display will show **no playable disc**

Eject CD

Press the button (7) under the display (3). An inserted CD will then be ejected.

Auto CD function

If CD is not selected as source the unit will automatically change to CD from any other input after you have inserted a CD.

2.6.2   PLAY, PAUSE, STOP

Pressing **PLAY** (8) starts the player. While playing, the same button changes its function to **PAUSE**. While the player is playing, the button (7) under the display shows the **STOP** symbol. When the player is stopped, this button changes its function to the **EJECT** symbol.

2.6.3   SEARCH / SKIP

While the player is stopped, the two buttons on the left (4, 5) can be used to select a title. A short tip switches to the next / previous title. Holding one of the buttons down scans automatically up / down. The number of the actual title is shown in the display (**TRACK**).

While the player is playing a short tap on the buttons 4 and 5 selects the previous / next title. Holding down the buttons starts the rewind / fast forward function. Rewind / fast forward stops automatically when the begin / end of the actual title is reached.

2.6.4   Repeat

To choose from one of the available **REPEAT** modes press the **MENU** button (6). Now, select one of the following **REPEAT** modes: **ONE** repeats only the currently selected title. **ALL** repeats the entire CD or an individually programmed playlist.

2.6.5   Programing an individual playlist

If a disc is inside the player you can program your individual playing sequence as follows: Hold the **MENU** button (6) down for more than two seconds to enter the Playlist menu.

The display shows on the left side the actual title (**TRCK**), below the playing time of this title (**TIME**). Pressing the buttons 4 and 5 allows you to select a title.

Pressing **ADD** (6) adds the selected title to the playlist. The display shows on the right side the number of programmed titles (**PGM-QTY**). Below the playing time of the programmed list (**P-TIME**) is shown.

NOTE: The program function is only available while the player is stopped. The maximum number of programmed tracks is 99, the maximum program duration is 99 minutes. In case the level setting is active (see 2.4.1), you need to exit first.

Example
An inserted CD contains 15 titles. You want to play only the titles 7, 3 and 8 in that order.

- Press the **MENU** button (6) for more than two seconds. The display now shows "TRCK 1/15" in the upper left corner and "PGM-QTY 0" indicating that none of the 15 available titles have been added to the playlist yet.
- Select title 7 using the buttons **< SELECT >** (4, 5). The display now shows "TRCK 7/15" in the upper left corner.

- Now add this track to the playlist by pressing **ADD** (6).
- Select title 3 using the buttons **< SELECT >** (4, 5). The display now shows "TRCK 3/15" in the upper left corner.
- Now add this track to the playlist by pressing **ADD** (6).
- Select title 8 using the buttons **< SELECT >** (4, 5). The display now shows "TRCK 8/15" in the upper left corner.
- Now add this track to the playlist by pressing **ADD** (6).
- Now press **STORE** (7) to finish the programming and store the playlist

Deleting an existing playlist

Press **MENU** (6) for more than 2 seconds. Then press **DEL PGM** (8) and the playlist is deleted.

2.6.6   Random

To activate the **RANDOM** mode press **MENU** (6) for more than 2 seconds. Then press **RANDOM** (7). Press **PLAY** (8) to start the **RANDOM** playlist.

3   Advanced Settings

Your CS 2.2 offers a wealth of custom specific settings in its advanced settings menu. To enter the menu just tap on the button **MENU** (6). The button now changes to **EXIT**. A second tip on this button leads you to the normal operating mode. When the menu system is active you can select the desired function using the buttons **< ITEM >** (4, 5). The setting is done using the buttons **< VALUE >** (7, 8).

Depending on the actual source the advanced settings menu offers a range of selected settings described in the following.

3.1   Global settings

3.1.1   Set tone control

Set tone control activates or deactivates the integrated sound settings menu of the CS 2.2 which enables you to individually adjust the bass or treble level of a certain sound source or lets you choose from a range of available loudness curves.

Set tone control can be bypassed (**BYPASS)** or activated (**ACTIVE)**. In case the **set tone control** option is activated **TONE ON** is shown in the display (4), otherwise **LINEAR**. When switched to **ACTIVE** the sound settings menu is ready to operate but will only be enabled if one of the associated parameters such as **set bass**, **set treble** or **set loudness** is being altered. In case all three parameters are in a neutral position (**BASS = 0**, **TREBLE= 0**,

COUNTOUR = OFF) the **set tone control** option remains ready for operation without processing the signal. You can choose if you want to change bass and treble settings simultaneously for all inputs (**GLOBAL**) or exclusively for the currently selected input (**INDIVIDUAL**). If you wish to set individual settings, a prior parameterization of the respective sound sources is required first (see 3.3.2). The loudness option depends on speakers and properties of the listening room and is therefore always **GLOBAL**.

NOTE: In case tone control is set to **BYPASS** the menu will skip the **set bass**, **set treble** and **set loudness** settings.

3.1.2 Set bass

Set the bass level between – 5 dB and + 9 dB.

3.1.3 Set treble

Set treble level between – 7 dB and + 7 dB.

3.1.4 Set loudness

If you listen to music at low levels, you often recognize that bass and treble reproduction are weak. This is because the human ear is not sensitive to bass and treble at low sound levels. To compensate this, you can use the parametric loudness function of the CS 2.2. This function will increase bass and treble levels when you decrease the volume. When the volume is increased, the frequency response will be more and more flat and remain linear at high volume levels. In order to obtain best results, we recommend you proceed in the following way: Set the amplifier to a moderate volume level. Using the buttons **< VALUE >** (7, 8) choose a loudness curve ("OFF", 1-9) which provides the best sound impression and exit the menu with button 6 (**EXIT**).

NOTE: The loudness function selects automatically the correct loudness curve depending on the actual volume setting. That is why a different curve than the previously selecteded may be shown in the loudness menu as soon as you alter the volume. This is not a malfunction.

3.1.5 Set balance

Set the balance between right and left channel for optimal stereo image.

3.1.6 Set poweramp

Set poweramp enables you to activate or deactivate the loudspeaker outputs of your CS 2.2. Deactivating the loudspeaker outputs can, for instance, be useful if a separate power amplifier is connected.

3.2 FM-Tuner

3.2.1 Set RDS display

Choose if the name of the radio station (**NAME**), or the frequency (**FREQUENCY**) is shown on the display.

3.2.2 Set scan mode

Set tuning mode between **AUTO** or **MANUAL.** After pressing one of the buttons 7 and 8, **AUTO** searches for the nearest available radio station. **MANUAL** enables you to manually search for a radio station (see 2.5.1).

3.2.3 Set 2 channel mode

Set tuner to **MONO** or **STEREO** to obtain best sound.

NOTE: Depending on the actual setting the threshold for auto tuning will change (sensitive in **MONO**, less sensitive in **STEREO**).

3.2.4 Set deemphasis

By chossing an adequate deemphasis value enhances the overall sound quality of the FM tuner through an optimized signal-to-noise ratio. Unless you are using the CS 2.2 in the USA, please make sure the option "EUR, AUS, JPN" is set.

3.3 Personal Setup

The personal setup offers you a range of settings to individualize the device according to your personal needs. To enter the **personal setup** menu, please switch off your device on the rear of the unit at the mains switch (33). Keep the most right key under the display pressed (8) while you switch on the unit again (33). As soon as the display shows the **personal setup** menu you can release the multifunctional button (8). When the personal setup is active you can select the desired function using the buttons **< ITEM >**. The button **SELECT** activates the function. The setting is done using the buttons **< VALUE >**. **BACK** leads you back to other settings. **EXIT** exits the personal setup and stores the settings.

3.3.1 set display brightness

Sets display brightness 25% to 100%.

NOTE: The setting 100% can lead to "burn in" effects on the display if the unit is operated in this setting for a very long time. In order to avoid such "burn in effects" please switch the unit to stand by, if not in use.

3.3.2   Bass & treble control

Choose if you want to change bass and treble settings globally for all inputs (**GLOBAL**) or solely for the actual input (**INDIVIDUAL**).

3.3.3   skip unused inputs

Deactivate unused inputs (**SKIPPED**). The unit will then skip these inputs when the source selector (12) is pressed or if you select a sound source via the optionally available RC 9 remote control or the free [RC S App for iOS and Android.](#)

3.3.4   define input names

You can individually set the names (max. 8 characters) of the different sources shown in the display (3). Proceed as follows:

Press **SELECT**. With **< ITEM >** you can now select an individual input in order to alter its name. The display now shows on the left side the old name, on the right side the new name. The character to change is marked by an underscore. The keys **< POS >** (7, 8) select the position of the character to change. The marked character can be set using the volume knob (14). When you are ready, simply press **BACK** (6) and the new input names are stored.

3.3.5   gain fix / variable

If a surround system is connected to the CS 2.2, specific settings such as channel balance, tone settings and bass management are controlled by a separate decoder. These settings may not be altered by other components in order to maintain the balance of all channels. For this application, the CS 2.2 offers the **gain fix** function by both passing through the signal with a fixed gain setting and bypassing all sound control settings (see 3.1.1).

3.3.6   FM auto store

This function is useful when storing a large quantity of stations from cable. Select the **FM auto store** with **SELECT** and press the button **START** (4). While the auto store function is in progress all stations are played audibly for half a second. When the function is terminated the display shows for 2 seconds the number when a station was found. After that, the unit comes back to normal tuner operating mode. If desired you can now shift certain stations to different positions, change the settings and store back or delete unwanted stations (see 2.5.2).

3.3.7 Set autoplay

When **set autoplay** is activated, the CD player will start playing automatically every time a CD is inserted. If **set autoplay** is deactivated, the player will read the TOC of the inserted disc and then go to **STOP** mode.

3.3.8 Set IR control

In addition to control the CS 2.2 via the optionally available RC 9 remote control or the free RC S App for iOS and Android, a range of essential functions can also be controlled via the classic RC 3 or RC 8 infrared remote controls. In order to receive a respective infrared signal of the RC 3 or RC 8, please make sure to activate the **set ir control** function (**ON**).

3.4 Reset (factory default settings)

The **Reset** menu cancels certain or all settings and makes the unit return to default settings.

To enter the **Reset** menu, please switch off your device on the rear of the unit at the mains switch (33). Keep the middle key under the display pressed (6) while you switch on the unit again (33). As soon as the display shows the reset menu you can release the multifunctional button (6).

Select if you want to clear the station memory (**STAT**), the input names (**NAMES**) or reset the unit completely (**ALL**).

CANCEL will bring the unit back to normal operating mode without resetting any item.

4 Appendix

4.1 Cleaning

Use a soft cloth and normal glass cleansing fluid.

CAUTION
Make sure that no fluid comes into the unit. Do not use scouring cleaners. They may damage the surface.

4.2 Troubleshooting

Some putative defects are often caused by mistakes in operation. Sometimes other units connected to the amplifier can cause problems. We therefore kindly ask you to read the following tips before consulting your dealer or us.

1. No playback

a) Mute function is active, press button MUTE on your remote control or increase the volume using the rotary encoder (14).
b) Inadvertent switching to stand by. Press power button (1). If the LED indicator and display do not light up a fuse can be blown due to overvoltage (e.g. in case of a thunderstorm etc.). Please contact your dealer.

2. Amplifier switches off during normal operation

This can happen if the temperature inside the unit becomes too high. In this case, the amplifier switches off and the display shows 'overheat'. Switch the unit off and let it cool down for five minutes.

3. Hum

a) Hum while playing records: Make sure that the chassis of your record player is properly grounded.

4. RC 9 remote control doesn't work

a) Charge the included lithium-ion battery of the optionally available RC 9 remote control (see section **Error! Reference source not found.**).
b) Point with the remote control transmitter directly to the unit.
c) Reconnect the RC 9 remote control with your CS 2.2. This process is also referred to as **Pairing**. In order to start the pairing process, please follow the instructions as described in section 1.11.1.

5. The display shows „no disc" although a CD is inserted

a) Please make sure the CD is not a data disc, has not been damaged and is inserted with the correct side facing up
b) Please clean your CD with a soft cleaning cloth

6. No RDS display

a) The received signal is too weak; hence the data can't be decoded and aren't displayed.
b) Certain radio stations do not support and broadcast RDS.

4.3   Conditions of warranty (EC 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.

5 Technical Data

5.1.1   Amplifier

Sensitivity	12,5 mV - 50 mV- 125 mV
	(for 25 W / 4 Ω, adjustable)
Sensitivity Phono	40µV - 160µV - 400µV (for 25 W / 4 Ω, adjustable)
Input impedance	6,8 kΩ
Input impedance Phono	47 kΩ / 100 pF
S/N (25W at 4 Ω)	96 dB(A)
S/N Phono (25W at 4 Ω)	83 dB(A)
THD (25 W/4 Ω)	< 0,1 %
Frequency response (4 Ω)	< 5 Hz - > 50 kHz
Damping factor (8 Ω)	>100
Output power	> 2 x 110 W (8 Ω) / 2 x 165 W (4 Ω)

5.1.2   FM Tuner

Frequency range	87,5 MHz – 108,0 MHz
Tuning step	50 kHz
Input impedance antenna	50 Ω
Sensitivity (mono / stereo)	1,5 µV / 50 µV
S/N mono / stereo	73 dB(A) / 68 dB(A)
THD mono / stereo	0,1% / 0,3%
Frequency response	30 Hz – 16 kHz
Channel separation	55 dB

5.1.3   CD Player / Digital Inputs / Digital Outputs

Formats	CD Audio, CDR (according to red book standard)
Sampling Frequency	Upsampling to 192 kHz / 24 Bit
Frequency response CD	<20 Hz – 20 kHz
Frequency response USB	<20 Hz – 24 kHz
Frequency response SPDIF	<20 Hz – 90 kHz
Deemphasis	yes, automatically
Input Dig in opt/coax	SPDIF, linear PCM 33 kHz - 96 kHz / 16 - 24 Bit
Input Dig in opt/coax	SPDIF, linear PCM 33 kHz - 192 kHz / 16 - 24 Bit
USB input	up to 48 kHz / 16 Bit
Output Dig out opt/coax	SPDIF 44,1 kHz / 16 Bit (CD-Player)
	SPDIF, see Input (Dig in opt / coax/USB)
Input impedance dig in coax	75 Ω
Input level dig in coax	according to IEC 908
Output dig out coax	75 Ω
Output dig out coax	according to IEC 908

5.1.4   Streaming

Streaming Formats	MP3, WMA, AAC, OGG Vorbis, FLAC (192/24 via LAN), WAV (192/24 via LAN), AIFF (192/24 via LAN), ALAC (96/24 via LAN)
Supported Formats	UPnP, 1.1, UPnP-AV and DLNA compatible Server, Microsoft Windows Media, Connect Server (WMDRM 10), DLNA compatible Server: NAS
Streaming Services	TIDAL, Qobuz

5.1.5   Other

Supply voltage	230 Volt / 50 Hz / 450 VA (Stand by mode <6 VA)
Dimensions (W x H x D)	340 mm x 80 mm x 350 mm
Weight	10 kg (depending on configuration)

NOTE: Energy consumption in stand by mode

In order to control your CS 2.2 with the optional RC S remote control or the free RC S App for iOS and Android, the integrated streaming module of the device always remains ready for operation even in standby mode. Please note that this results in a higher energy consumption of about 5,5 VA (instead of 0,5 VA). In order to save this energy, the device needs to be switched off on the rear side of the unit (33) after going into standy mode.

Changes reserved without notice.
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