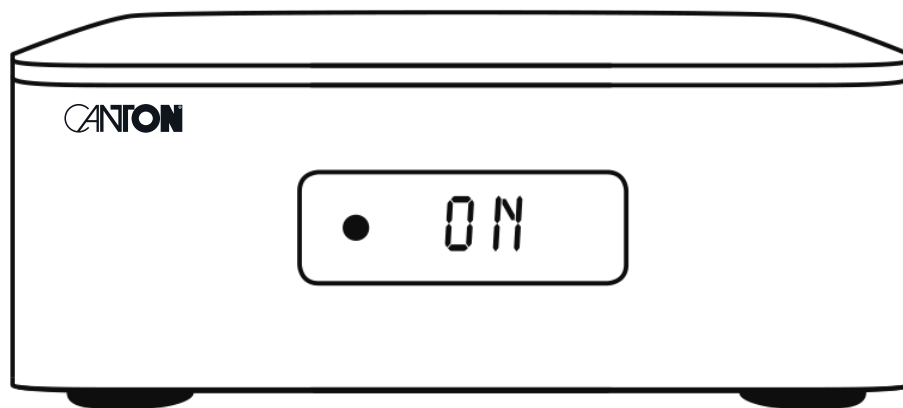


# OPERATING INSTRUCTIONS

## SMART AMP 5.1

OPERATING INSTRUCTIONS

English



# CANTON

# THANKS!

Thank you very much for choosing this Canton product. You can now look forward to countless hours filled with excellent sound.

If you have any questions or need further information, please do not hesitate to contact us!

Service-Telefon: 06083 / 287-87  
Service E-Mail: [service@canton.de](mailto:service@canton.de)

Canton Elektronik GmbH + Co. KG  
Neugasse 21-23  
61276 Weilrod, Germany

The logo for Canton, featuring the word "CANTON" in a bold, sans-serif font. The letter "C" is stylized with a circular element that loops around the top and bottom of the letter.

# **CONTENT**

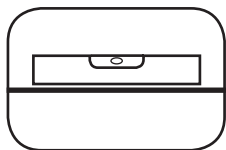
<b>Important safety instructions</b> .....	Page 7
<b>Unpacking</b> .....	Page 11
<b>Setting up the remote control</b> .....	Page 11
<b>Connection terminal</b> .....	Page 12
<b>Touch pad</b> .....	Page 14
<b>Remote control</b> .....	Page 15
<b>LED indications</b> .....	Page 16
<b>Display indications</b> .....	Page 16
<b>Using Chromecast built-in</b> .....	Page 19
<b>Google Assistant</b> .....	Page 20
<b>Using Spotify Connect</b> .....	Page 20
<b>Playback via Bluetooth® wireless technology</b> .....	Page 21
<b>Using AirPlay 2 technology</b> .....	Page 22
<b>Playback via AirPlay 2 technology</b> .....	Page 23
<b>Preset 1–3</b> .....	Page 24
<b>Automatic Updates</b> .....	Page 25
<b>Menu structure and navigation</b> .....	Page 25
<b>1. Speaker Setup [SPS]</b> .....	Page 26
– Channel Level [CHL] .....	Page 26
– Distance [DST] .....	Page 27
– DRC [DRC] .....	Page 28
– Voice Clarity [VOI] .....	Page 28
– Equalization [EQ] .....	Page 29
– Xover Small Speakers [XOV] .....	Page 29
– Subwoofer Setup [SUB] .....	Page 30
– Sub Phase [PHA] .....	Page 30
– Sub Stereo [SSM] .....	Page 30
– Stereo Sub Xover [SSX] .....	Page 31
– Room Height [RHE] .....	Page 31
– Device Heights [DHE] .....	Page 32

– Sound Setup [SND] .....	Page 32
<b>2. System Setup [SYS].....</b>	<b>Page 33</b>
– Sleep Timer [SLP] .....	Page 33
– IR Menu [IRM] .....	Page 34
– IR Learn [IRL] .....	Page 34
– Direct Input Learn [DIL] .....	Page 35
– IR Clear [CLR].....	Page 36
– HDMI CEC [CEC] .....	Page 36
– Standby Mode [STB] .....	Page 37
– Input Configuration [INP].....	Page 38
– Analog Gain [OFS].....	Page 39
– Input Select [SEL] .....	Page 40
– Lipsync [LIP] .....	Page 40
– Max Volume [VOL].....	Page 41
– Playmode [PLM] .....	Page 41
– 3D Audio [3D].....	Page 42
– Display Setup [UIS] .....	Page 42
– Language [LAN] .....	Page 42
– LED Flashing [LED] .....	Page 42
– Input Stream Display [ISD] .....	Page 43
– Slave Display [SUI] .....	Page 43
– Factory Reset [RES] .....	Page 44
– OTA Recovery [OTA] .....	Page 45
<b>3. Network Setup [NWS] .....</b>	<b>Page 45</b>
– Network Select [NWC].....	Page 45
– Network Reset [NWR] .....	Page 46
<b>4. Wireless Setup [WIS] .....</b>	<b>Page 47</b>
– Transmission Power [TXP].....	Page 47
– RF Channel [CHN] .....	Page 47
– Bluetooth Setup [BT] .....	Page 48

– Pair Mode [BTP] .....	Page 48
– BT Select [BTS] .....	Page 49
– BT Reset [BRE] .....	Page 50
– AutoPlay [APL] .....	Page 50
– Wireless Reset [WRE] .....	Page 51
<b>5. Output Setup [OPS] .....</b>	<b>Page 51</b>
– Speaker Configuration [SPC] .....	Page 52
– Speaker Mapping [SPM] .....	Page 55
<b>6. System Info [INF] .....</b>	<b>Page 57</b>
– Firmware Info [FWI] .....	Page 58
– Network Info [NWI] .....	Page 59
Trouble shooting .....	Page 60
Technical data .....	Page 67
EU declaration of conformity .....	Page 68
Further important information .....	Page 69
Warranty .....	Page 70
License Notices .....	Page 71

# SAFETY INSTRUCTIONS

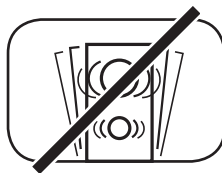
Please observe the safety instructions when choosing the correct location for your Smart Amp 5.1 and when maintaining and operating it! The user is responsible for the proper handling of the amplifier. Canton cannot accept any responsibility for damage or accidents caused by improper installation or connection.



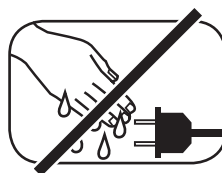
Choose a flat surface



Avoid moisture



Avoid shocks



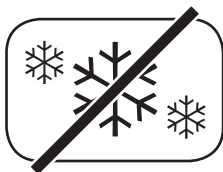
Do not touch the mains cable with wet hands



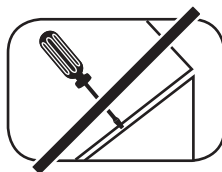
Do not throw in household waste



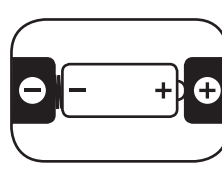
Avoid direct sunlight



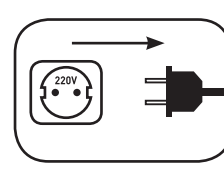
Protect from extreme cold



Do not open the housing



Make sure the polarity of the battery and remote control is correct



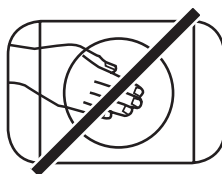
Ensure free access to the power plug



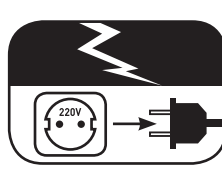
Distance to sources of heat



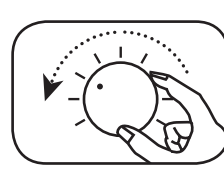
Do not use aggressive, alcoholic or abrasive agents for cleaning



Do not reach into the housing opening







Disconnect mains plug during thunderstorms





Turn down the system if there is an overload

# IMPORTANT SAFETY INSTRUCTIONS

	<b>CAUTION</b> Risk of electric shock Do not open!	
<b>CAUTION:</b> To reduce the risk of fire and electric shock, do not open the device. There are no serviceable parts inside. Refer all servicing to qualified service personnel only.		

	<b>CAUTION</b> Danger of explosion!	
<b>CAUTION:</b> Replaceable lithium batteries! Caution: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.		

	<b>CAUTION</b> Danger of life!	
<b>CAUTION:</b> Do not ingest battery. Chemical burn hazard. Danger of life!		

## Note

Read and follow all instructions.

Keep these instructions.

Observe all warnings and safety instructions.

Operate this device only in a moderate climate (not in a tropical climate).

Do not operate this device at altitudes above 2000 m above sea level.

Only operate this device indoors, not outdoors or in damp rooms.

To avoid the risk of fire or electric shock, the device must not be exposed to rain or moisture.

Do not operate this device near water.

Do not expose this device to dripping or splashing water.

---

Strong temperature fluctuations lead to condensation (water droplets) in the device.

Wait until the moisture has evaporated (at least three hours).

---

Do not place objects filled with liquids (such as vases) on the device.

---

Do not place an open fire, such as lit candles, on or near the device.

---

Do not place the device near heat sources such as radiators, heat accumulators, stoves or other devices (including amplifiers) that generate heat.

---

Avoid direct sunlight.

---

Keep a clearance of at least 5 cm around the device.

---

Never prevent the protective function of polarised or grounded plugs: A polarised plug has two pins, one wider than the other. An earthed plug has a third earthing pin. The wide or third pin is for your safety. If the plug does not fit into your outlet, contact a qualified electrician to replace the obsolete outlet.

---

To avoid electric shock, connect the mains plug only to sockets or extensions where the contact pins can be fully inserted to prevent exposed contact pins.

---

Never touch the signal and mains cable with wet hands.

---

Do not step on or pinch the mains cable, especially not in the area of the plugs, sockets or where the cable is led out of the device.

---

For devices without a mains switch, in which the mains plug or the device mains socket serves as an isolating device, the plug of the mains cable or the device mains socket must be freely accessible at all times.

---

Disconnect the device from the mains during thunderstorms or prolonged periods of non-use.

---

To completely disconnect the device from the power supply, unplug the mains cable from the wall outlet.

---

Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable

---

Always switch off the device before connecting or disconnecting connection cables.

---

Always pull the plugs and not the cables.

---

Install the device according to the manufacturer's instructions.

---



---

Always choose a level surface. The device must be in a vertical position.

---



---

Do not exert force on operating elements, connections and lines.

---



---

The device may only be operated with the voltage and frequency specified on the device or the type plate.

---



---

Do not insert any objects or body parts into the openings of the device. Live parts inside the housing could be touched and/or damaged. This can lead to short circuits, electric shocks and fire.

---



---

Only use fixing materials and accessories that are approved by the manufacturer and/or supplied with the device.

---



---

Only use trolleys, stands, tripods, holders or tables specified by the manufacturer or sold with the device.

---



---

When using a trolley, be careful when moving the trolley/device assembly to prevent damage and injury from tipping over.

---




---

Only clean this device with a clean, dry cloth.

---



---

Do not use any aggressive, alcoholic or abrasive agents for cleaning.

---



---

To avoid electric shock, do not open the housing! There are no user-serviceable parts in the device.

---



---

Consult qualified personnel for all repair and maintenance work. This is required when the device has been damaged in any way, such as mains cable or plug damage, liquid or objects have been spilled, exposed to rain or moisture, does not operate normally, or has been dropped.

---



---

Do not make any changes to the device or accessories. Unauthorised modifications can compromise safety, regulatory compliance or system performance. In this case, the type approval/guarantee may expire.

---



---

If sound distortions such as unnatural knocking, throbbing or high-frequency clicking occur during playback, the volume level must be reduced immediately.

---



---

To avoid possible hearing damage, do not listen at high levels for long periods of time. Interrupt the playback if you hear ringing or whistling noises in your ears or if you have the impression that you can no longer hear high sounds (even for a short time).

---




---

New and used batteries must be kept away from children. Devices in which the battery compartment cannot be closed securely must not be used any longer and must be kept away from children.

---

The remote control supplied with this device contains a button cell as battery. Swallowing the button cell can cause serious internal burns and thus death in only 2 hours!

Do not ingest the battery, Chemical Burn Hazard.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Take care of your environment when disposing of the battery. Batteries must be disposed of at a battery collection point.

Do not expose batteries to high temperatures, such as direct sunlight, fire or the like.

Batteries must be inserted correctly according to the polarity imprint. Incorrect insertion can lead to damage.

Only use the batteries or rechargeable batteries specified for the device.

The batteries supplied are not rechargeable batteries, i.e. these batteries must not be recharged.

The device and/or the accessory may contain small parts that can be swallowed.

Therefore not suitable for children under three years.



This symbol indicates uninsulated dangerous voltages inside the case that are sufficiently strong (amplitude) to cause a fire or electric shock.



This symbol warns you of important operating and maintenance instructions in the accompanying documentation (manual) supplied.



This symbol indicates Class II devices, where protection against electric shock is provided by double or reinforced insulation during specified use and therefore no protective earth connection is required.



## UNPACKING

Unpack the box carefully and check that all the following parts are present:

### **Delivery content**

- 1x Smart Amp 5.1
- 1x Remote control
- 1x Power cord
- 1x Short manual

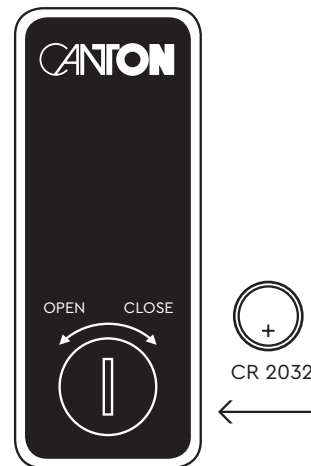
## CONNECTION

Place the Smart Amp 5.1 in the desired location and connect it to the power input using the power cord. Make sure that your TV is plugged in. If you want to connect your Amp to the WiFi network, please make sure your WiFi router is active and has a connection to the Internet.

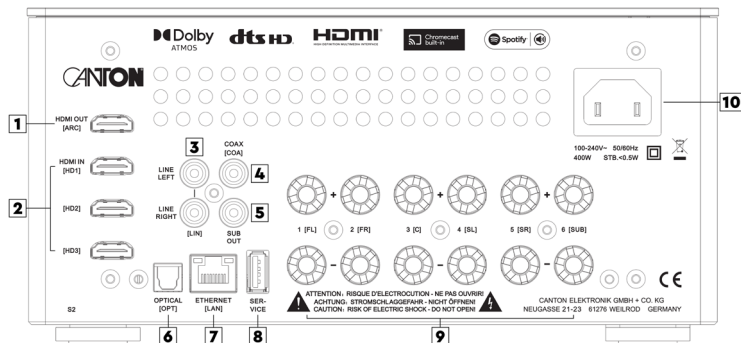
## SETTING UP THE REMOTE CONTROL

The remote control comes with a battery already installed. Simply remove the protective film to activate. When replacing the battery ensure that it is correctly inserted according to the polarity markings (+/-).

Only use the battery specified for this system (CR 2032).



# CONNECTION TERMINAL



- 1 HDMI® Output** (HDMI® with 3D, 4K, eARC/ARC, HDCP 2.2, CEC, HDR)  
For the connection with the HDMI® (eARC / ARC) input of your TV.
- 2 HDMI® Inputs** (3x HDMI® with 3D, 4K, HDCP 2.2, CEC, HDR)  
For the connection with the HDMI® Output of your digital source devices.
- 3 LINE L/R (AUX)** (2x RCA, max. 2Vrms)  
For the connection with the analog line output of your source device.
- 4 COAXIAL (COA) Input** (RCA, max. 96kHz)  
For the connection with your (digital) coax audio output of your TV or digital source device.
- 5 SUB OUT** (RCA, max. 2Vrms)  
For connection with an active subwoofer.
- 6 OPTICAL IN (OPT)** (TOSLINK, max. 96kHz)  
For the connection with your (digital) optical audio output of your TV or digital source device.
- 7 ETHERNET (LAN)** (RJ45 Socket, 8-pole)  
For the connection with a network router via ethernet cable.
- 8 SERVICE CONNECTOR** (USB A Socket, no audio, no charging)  
Used for the Canton customer service only.
- 9 Speaker Terminal** (Screw terminal, max. 6mm<sup>2</sup>)  
For the connection with passive loudspeakers and/or a passive subwoofer.
- 10 POWER INPUT** (IEC C18, 100–240V~, 50/60Hz, 400W)  
For connection with the Mains.

## Note:

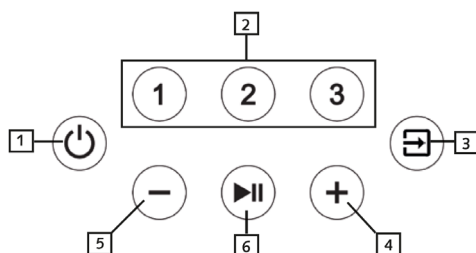
eARC is only available on devices of the second generation (Amp 5.1 S2).

**Note:** The physical inputs have the following designations, (which you can match to the connected source at any time, except for BT and NET):

Phys. Input	OSD	Name (display indication)
ARC	ARC	TV
HD1	HDMI1	BDP
HD2	HDMI2	SAT
HD3	HDMI3	PS
OPT	OPT	CD
COA	COAX1	DVD
LIN	ANALOG	AUX
Bluetooth®	BT	BT
Network (WiFi/Ethernet)	NETWORK	NET

**Note:** The eARC/ARC function can be used at any time with the Amp 5.1 and does not need to be activated or deactivated. For your TV to support the eARC / ARC function it must have at least one HDMI® input with enhanced Audio Return Channel (eARC) / Audio Return Channel (ARC). The CEC function must be activated. For more information please consult the operating manual of your TV.

# TOUCH KEYS



**1 Power:**

**2 Preset 1-3:**

**3 Input:**

**4 Plus:**

**5 Minus:**

**6 Play/Pause:**

Toggles power status between On and Standby

Preset keys for direct access of previously stored sound settings and Spotify playlists

Toggles through the inputs

Increase main volume

Decrease main volume

Play/Pause function for Chromecast built-in, Spotify Connect, AirPlay and Bluetooth® wireless technology

## Menu control:

### 1 Input

- Get to the menu (press and hold for 3 seconds)
- One level back in the menu
- Exit the menu (press and hold for 3 seconds)

### 2 Plus

- Menu selection upwards
- Increase menu value

### 3 Minus

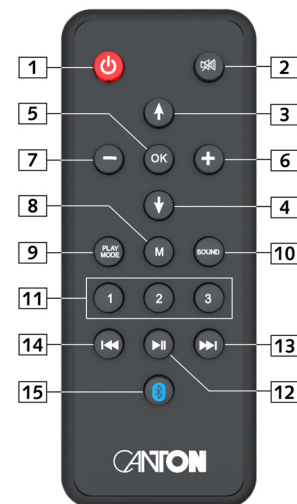
- Menu selection downwards
- Decrease menu value

### 4 Play/Pause

- Continue to the next menu level
- Confirm selection

# REMOTE CONTROL

- |                             |  |
|-----------------------------|--|
| <b>1 Power</b>              | Toggles Soundbar status (on/standby)   |
| <b>2 Mute</b>               | Mutes audio  |
| <b>3 Upwards [↑]</b>        | Sets input or menu item upwards  |
| <b>4 Downwards [↓]</b>      | Sets input or menu item downwards  |
| <b>5 OK</b>                 | Enters next menu level (confirms selection)  |
| <b>6 Plus [+]</b>           | Increases volume or menu value   |
| <b>7 Minus [-]</b>          | Decreases volume or menu value   |
| <b>8 Menu</b>               | Enters settings menu or previous menu level  |
| <b>9 Play Mode</b>          | Toggles btw. the several play modes:   |
| Stereo                      | For stereo playback  |
| Movie                       | Virtual surround sound for movies  |
| Music                       | Virtual surround sound for concert audio playback etc.   |
| Discrete                    | Surround sound for movies and concert audio playback etc.<br>(Play mode only available with connected surround speakers)               |
| Party                       | Plays the front channels (FL+FR) additionally on the surround speakers.<br>(Play mode only available with connected surround speakers) |
| Night                       | (Virtual) surround sound with reduced dynamic and higher speech intelligibility at low volume levels for "night usage"                 |
| Pure Direct                 | Surround sound without usage of a virtualizer or upmixer   |
| <b>10 Sound</b>             | Toggles btw. bass, midrange and treble tone control settings:  |
| Bass                        | Bass adjustment from -10dB to +10dB  |
| Midrange                    | Midrange adjustment from -10dB to +10dB  |
| Treble                      | Treble adjustment from -10dB to +10dB  |
| <b>11 Preset</b>            | Preset keys for direct access of previously stored (sound)settings and Spotify playlists   |
| <b>12 Play/Pause</b>        | Play/Pause function for Chromecast built-in, Spotify Connect, AirPlay and Bluetooth® wireless technology                               |
| <b>13 Skip FW</b>           | Skip forward function for Chromecast built-in, Spotify Connect, AirPlay and Bluetooth® wireless technology                             |
| <b>14 Skip BW</b>           | Skip backward function for Chromecast built-in, Spotify Connect, AirPlay and Bluetooth® wireless technology                            |
| <b>15 Bluetooth Pairing</b> | Initializes the pairing process with a (mobile) device   |



## LED INDICATIONS

The LED indicates the following conditions:

- |                                |   |
|--------------------------------|---|
| • LED off (not illuminated)    | Amplifier disconnected from the mains   |
| • LED shining red              | Amplifier in standby mode               |
| • LED flashing green quickly   | Amplifier is booting                    |
| • LED shining green            | Amplifier is active (network connected) |
| <hr/>                          |   |
| • LED flashing green slowly    | Network disconnected                    |
| • LED flashing green           | Network setup mode                      |
| • LED flashing green/red       | Amplifier is executing a FW update      |
| • LED flashing green two times | Ethernet setup mode (LAN connected)     |

## DISPLAY INDICATIONS

### On-Screen Display (OSD)

All settings and configurations of the Amp 5.1 can comfortably be done using the On-Screen display with your TV-Screen. To do so the Amp must be connected with your TV using a HDMI®-cable. The menu is comprehensibly structured. Pressing the menu button (M) on the remote guides you to the main menu.

**Note:** To change the language of the OSD (German or English), navigate to the main menu by pressing the menu **button "M"**. Select the menu **Systemeinstellungen [SYS]** by using the arrow **buttons "↑" or "↓"** and enter by pressing the **"OK" button**. Use the arrow **buttons "↑" or "↓"** to select the menu item **Sprache [LAN]** in the submenu **Display Setup [UI]** and confirm by pressing the **"OK" button**. Use the **"+" or "-"** button to select the desired language as **German [DEU]** or **English [ENG]** and confirm your selection with the **"OK" button**. Exit the menu by pressing and hold the **menu button "M"**.



# LED DISPLAY

The Amp 5.1 has a multifunctional LED display build in the front of the Amp which will light up for 5 seconds when receiving a command. The most important indications and their meanings are listed below:

Operation	Display	Meaning
Input	TV	HDMI® ARC input selected
Input	BDP	HDMI® HD1 input selected
Input	SAT	HDMI® HD2 input selected
Input	PS	HDMI® HD3 input selected
Input	BT	Bluetooth® input selected
Input	NET	Network input selected
Input	AUX	Analogue input selected
Input	DVD	First coax digital input selected
Input	PAD	Second coax digital input selected
Input	CD	Optical digital input selected
Sound Setting	V35	Volume to 35 (of max. 70)
Sound Setting	— — —	Amp 5.1 is muted
Sound Setting	BAS	Bass tone control adjustment
Sound Setting	MID	Midrange tone control adjustment
Sound Setting	TRE	Treble tone control adjustment
Playmode	STEREO	Stereo mode selected
Playmode	MOVIE	Virtual surround sound for movie playback
Playmode	MUSIC	Virtual surround sound for music playback
Playmode	NIGHT	Virtual surround sound with reduced dynamic
Playmode	PARTY	Copy the audio signal from the front-speakers to the surround speakers
Playmode	DISCRETE	Surround sound for movie and music playback
Playmode	PURE DIRECT	Plays the input signal without using a virtualizer or upmixer
Bluetooth®	BTP	Pairing mode (Pairing)
Bluetooth®	BT- / CON	Connection established
Bluetooth®	BT- / DIS	Connection closed
Bluetooth®	FAI	Failure occurred during pairing process

**Operation**

Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Incoming Signal  
 Networking  
 Networking  
 Networking  
 Networking  
 Networking  
 Networking  
 Networking  
 Networking

**Display**

DOLBY ATMOS  
 DOLBY DIGITAL  
 DOLBY DIGITAL 2.0  
 DOLBY DIGITAL PLUS  
 DOLBY SURROUND  
 DTS-HD  
 DTS  
 PCM  
 CAST  
 SPOTIFY  
 AIRPLAY  
 WIF / CON  
 WIF / DIS  
 ETH / CON  
 ETH / DIS  
 NET / SET

**Meaning**

Dolby Atmos® bitstream  
 Dolby® digital multichannel-bitstream  
 Dolby® digital two-channel-bitstream  
 Dolby Digital Plus™ multichannel-bitstream  
 Dolby® surround sound  
 DTS-HD® bitstream  
 DTS® digital surround bitstream  
 Digital stereo signal  
 Usage of Chromecast built-in  
 Usage of Spotify Connect  
 Usage of AirPlay technology  
 Network (WiFi) connected  
 Network (WiFi) disconnected  
 Network (ethernet) connected  
 Network (ethernet) disconnected  
 Smart Amp 5.1 ready for network setup

**Note:** The Playmodes Discrete, Party and Pure Direct are only selectable if surround speakers have been activated in the menu "Output Setup" **[OPS]**. Please find further informations in the explanations of the menu "Output Setup" **[OPS]**.

# USING CHROMECAST BUILT-IN™

## Requirements:

- (Mobile) device with **activated** WiFi and Bluetooth® function
- Network access (wireless by WiFi or wired by Ethernet)
- The Google Home app
- An app that supports playback via Chromecast built-in (e.g. Spotify, AllCast, TuneIn, etc.). Audio playback with the Google Home app directly is not possible.
- Please keep the standard settings of your WiFi router. Changing the settings of your router, especially changes on the DHCP settings, could lead to an unstable or not working network connection. For compatible routers please refer to the following Link:  
<https://support.google.com/chromecast/table/6207427?hl=en-IN>

To use the integrated function Chromecast built-in, you need to install the Google Home app on your (mobile) device and to connect the device to the Amp 5.1. Therefore your (mobile) device and the Amp 5.1 must be connected to the same network.

Please do as follows:

- 1 Power up your Smart Amp 5.1 and start your (mobile) device. The WiFi and Bluetooth® function must be activated on your (mobile) device. If the Amp 5.1 has been disconnected from the mains please wait with the procedure until the display indicates **[NET]** followed by **[SET]**.

**Note:** If you have already installed the Google Home app on your (mobile) device, you can skip item 2 and 3 below.

- 2 Open the Play Store/ App Store on your (mobile) device.
- 3 Search for the Google Home app and install it on your (mobile) device. You will need to accept access to several items, like identity and others.
- 4 Start the Google Home app and follow the instructions. You will need to assign a Google Account to this app. Please register or login to your account.
- 5 Your (mobile) device will now search for available devices in range. If necessary, you may have to select the related search function manually.
- 6 Select Smart Amp 5.1xxxx as device to be installed.
- 7 Now, the (mobile) device tries to connect to the Amp 5.1. Please follow the instructions of the Google Home app.
- 8 After the connection has been established the Amp plays a melody (sound sequence) through the connected speakers. Please confirm in the app that you have heard the melody.
- 9 Now, please select the "room" where you will use the amplifier (e.g. family room) and confirm with "next".
- 10 Please select the WiFi network (WLAN) which you want to use for the Amp 5.1 and click on "next".

- 11 The Google Home app and the Amp 5.1 will now be connected. After a successful connection the display of the Amp 5.1 shows **[WIF]** followed by **[CON]** for 5 seconds.
- 12 Now the installation is almost finished. Please follow the last steps on your (mobile) device to fully complete the installation.
- 13 To play music using Chromecast built-in, open an app that supports this feature (Spotify, TuneIn, etc.). This is indicated by the Chromecast built-in icon on the screen. Depending on the app, it may be necessary to start playback (the stream) first so that this function is displayed and available.
- 14 In order to play back music that you have stored locally on your (mobile) device via the Smart Amp 5.1 using Chromecast built-in, you can use the manufacturer's own playback app. If the music app of the manufacturer does not support Chromecast built-in, you can alternatively use a freely available app (such as the app "AllCast" from ClockworkMod).

## GOOGLE ASSISTANT

You can operate the Smart Amp 5.1 in two ways with the „Google Assistant“.

- 1 Connecting to a Google Home device.
- 2 Using the integrated voice control of the Google Home app.

Further information can be found under: [www.assistant.google.de](http://www.assistant.google.de)

**Note:** Google Assistant is not available in certain languages and countries.

## USING SPOTIFY CONNECT

Use your phone, tablet or computer as a remote control for Spotify. Go to [spotify.com/connect](https://spotify.com/connect) to learn how.

# PLAYBACK VIA BLUETOOTH® WIRELESS TECHNOLOGY

For wireless audio streaming you can connect your (mobile) device with the Amp 5.1 using Bluetooth® wireless technology.

## Requirements:

- The Bluetooth® wireless technology must be activated on the (mobile) device
- The (mobile) device must support at least the Bluetooth® standard 2.0
- The (mobile) device must be within range of the Smart Amp 5.1 (max. 10 m).

## Pairing process

To pair or connect the two devices please do as follows:

- 1 Please select the input **[BT]** using the buttons **Up (↑)** or **Down (↓)** and then press the **"Bluetooth Pairing"** button on your remote. The display shows **[BTP]**.
- 2 Start the search function on your (mobile) device.
- 3 Select the Canton Smart Amp 5.1 as the playback device.

**Note:** If you have entered a specific name during the network setup (e.g. Living Room), this name will be listed as playback device.

- 4 Once confirmed, the connection will be made automatically and will appear as **[BT-]** and **[CON]** in the display.
- 5 If the (mobile) device requires an access code, please enter 0000.
- 6 If the connection fails the message **[FAI]** will appear. Please ensure the requirements (see above) are fulfilled and repeat the pairing process.
- 7 If **[BT-]** and **[DIS]** appears in the display, your (mobile) device is out of range or logged out.

## Operating a (mobile) device

The device most recently connected to the Amp connects automatically when the Bluetooth® function is activated and the input Bluetooth® has been selected. In this case the message **[BT-]** followed by **[CON]** appears. Start the playback of a medium on your (mobile) device and the sound will be played back by the speakers connected to the Smart Amp 5.1.

## USING AIRPLAY 2 TECHNOLOGY

**Note:** AirPlay resp. AirPlay 2 is only available on devices of the second generation (Amp 5.1 S2).

With Apple AirPlay technology, you can play audio content over the wireless network (WLAN) using your Smart Amp 5.1. Additionally, AirPlay 2 technology offers you the possibility to play your content on several loudspeakers and/or amplifiers synchronously.

### Connecting the Smart Amp 5.1 to the WLAN (WiFi network) via iPhone, iPad or iPod touch

To connect your Smart Amp 5.1 to your wireless network (WLAN) via iPhone, iPad or iPod touch, please proceed as follows:

**1** Disconnect your Amp 5.1 from the power outlet, wait for at least 30 seconds and reconnect your Amp 5.1 to the mains afterwards.

Now please wait until the display shows **[NET]** and **[SET]** and continue with the following steps within max. 10 minutes.

**2** On your iPhone, iPad or iPod touch, select „Settings“ and then „Wi-Fi“ (WLAN).

**3** Under the menu item „SET UP NEW AIRPLAY SPEAKER“ select the Smart Amp 5.1 as the device to be installed.

**4** The „AirPlay Config...“ window opens.

a. Under „Network“ select the network to which you want to connect the Smart Amp 5.1.

b. Under „Speaker name“ enter the name (synonym) you want to assign to the Amp 5.1.

c. Optionally, you can assign a password under „SPEAKER PASSWORD“.

d. Select the function „Next“ and wait (approx. 30 seconds) until the Amp 5.1 shows **[WIF]** / **[CON]** in the display.

**5** Finalize the registration process in the „Configuration finished“ window that opens by pressing the „Done“ button. The Smart Amp 5.1 is now connected to your WLAN (Wi-Fi network) and ready for use.

## PLAYBACK VIA AIRPLAY RESP. AIRPLAY 2 TECHNOLOGY

**Note:** AirPlay resp. AirPlay 2 is only available on devices of the second generation (Amp 5.1 S2).

Requirements to play music using AirPlay 2 technology:

- iPhone, iPad, iPod touch or HomePod with iOS 11.4 or higher.
- Apple TV 4k or Apple TV HD with tvOS 11.4 or higher
- Mac or PC with iTunes 12.8 or higher resp. Mac with macOS Catalina or higher.

Playback on Smart Amp 5.1 (and other devices):

- 1** To play your music using the Amp 5.1, start the playback of the desired title in a media app on your (mobile) device.
- 2** Open the Control Center on your Apple device . Swipe from the top right corner (iOS 12 or higher) or from the bottom (iOS 11 or lower) towards the center of the display.
- 3** Select the AirPlay symbol in the Audio Card, and in the dialog that opens select the speaker(s) resp. amplifier(s) which you want to use for playback.

To start music playback on one or more AirPlay-enabled speaker(s) via Mac, Apple TV or Apple Music, please refer to the following support page:  
<https://support.apple.com/en-ca/HT202809>

- Notes:**
- Use Siri on your iPhone, iPad, HomePod, or Apple TV to control the Amp 5.1 with just your voice.
  - The Smart Amp 5.1 supports only audio streaming, no video streaming.

## **PRESET BUTTONS 1-3 (PRESETS)**

The Amp 5.1 is able to assign three memory buttons with „presets“. Settings like volume, selected input and settings in the Speaker Setup **[SPS]** menu (sound settings, etc.) as well as playlists from the app „Spotify“ can be stored. The memory buttons can be operated via the Smart remote control as well as via the keypad on top of the Amp 5.1.

### **Practical tip:**

- We recommend that you store the settings you have made in the loudspeaker menu during the initial set-up of the Amp 5.1, e.g. regarding loudspeaker levels and distances, sound settings, etc., to one of the three preset buttons so that your settings are not overwritten by the factory (neutral) settings if you accidentally press one of the preset buttons.

To store playlists and/or (sound)settings, please proceed as follows:

- 1** Please apply the desired settings regarding volume, sound, input, etc. and press and hold the memory button 1, 2 or 3 until the corresponding number **[P1]**, **[P2]** or **[P3]** is shown in the display and no longer flashes.
- 2** To store a playlist, please open the desired playlist on the app „Spotify“ on your (mobile) device and start playback. Be sure to select Spotify Connect as your connection to Amp 5.1, not Chromecast built-in. Now, please press and hold the corresponding memory button 1, 2 or 3 until the corresponding number **[P1]**, **[P2]** or **[P3]** is shown in the display and no longer flashes. Storing a playlist automatically stores all (sound)settings, too.
- 3** To recall the settings resp. a playlist from these presets, please press the corresponding button 1, 2 or 3 briefly. The settings are then called up, resp. the tracks from the stored playlist are played back automatically by the Amp 5.1 (even without using your (mobile) device).

**Note:** To delete the settings or a playlist from a preset button, please press and hold the relating button for 10 seconds until the corresponding preset **[P1]**, **[P2]** or **[P3]** is shown in the display rapidly flashing.



## AUTOMATIC UPDATES

After you have connected the Amp 5.1 to the network, firmware updates are executed automatically. After each connection to the power supply and at regular intervals (also in standby mode), the Amp 5.1 searches for an update and installs this, if available. The LED flashes green/red during the update and the display first shows „DOWNLOADING“, then „UPDATING“. During this time the Amp 5.1 is not operable. To do this, the Amp 5.1 must have been connected to the network router via the Google Home app or an iOS device (by use of WLAN) or alternatively by a network cable (by use of LAN).

**Attention:** Do **NOT** disconnect the Amp 5.1 from the power supply during an update process!

## MENU STRUCTURE AND NAVIGATION

### Overview

Most settings of the Smart Amp 5.1 are included into the main menu. This main menu is controlled with the touch keys on the top side of the Smart Amp 5.1 or with the Canton Smart Remote. The main menu is displayed by the OSD (On-Screen Display) on your TV screen. The LED display in the amplifier shows the respective function in the form of an abbreviation or as scroll text when the menu is activated. This means that the Amp 5.1 can also be adjusted without a screen.

Please find an instruction on how to navigate through the menu using the remote below:

- To enter the main menu, press the "M" button.
- To enter the next menu level, press the "OK" button.
- To navigate upwards or downwards within the menu, press the Up "↑" or Down "↓" key.
- To change the value of a parameter, press the "+" (Volume +) or "-" (Volume -) button.
- To confirm your settings please press the "OK" button.
- To enter the previous menu level, press the "M" button.
- To exit the menu:
  - a) Either press and hold the "M" button until the selected input (e.g. TV) is displayed, or
  - b) wait for 30 seconds without pressing any button.

### Practical tip:

- To change the language of the On-screen display from German to English, please go to the main menu by pressing the **button „M“**. Under „Systemeinstellung“ **[SYS]** select the menu item „Displayeinstellungen“ **[UIS]** and change the language under the menu item „Sprache“ **[LAN]**.

# 1. SPEAKER SETUP [SPS]

The first item in the main menu is the Speaker Setup. Here you can make sound-relevant settings relating to the connected speakers. This Speaker Setup includes the menu items

- Channel Level [**CHL**]
- Speaker Distance [**DST**]
- DRC [**DRC**]
- Voice Clarity [**VOI**]
- EQ [**EQ**]
- Xover Small Speakers [**XOV**]
- Subwoofer Setup [**SUB**]
  - Sub Phase [**PHA**]
  - Sub Stereo [**SSM**]
  - Stereo Sub Xover [**SSX**]
- Room Height [**RHE**]
- Device Heights [**DHE**]
- Sound Setup [**SND**]

## CHANNEL LEVEL [CHL]

At the Channel Level menu you can adjust the volume level of each individual channel in 1dB (1 Decibel) steps between -10dB and +10dB, where 0dB is the factory setting. For an easier relative volume adjustment between the different speakers, the Amp 5.1 is equipped with a test tone generator.

**Caution:** Before activating the test tone generator, please set the main volume to a level between 20 and 30. The test tone generator is depending on the main volume level and cannot be increased or decreased within the menu.

For adjusting the relative volume of the different speakers connected, please follow below instructions:

- 1** Press the **menu button "M"** on the remote to enter the menu.
- 2** Confirm the first menu item **Speaker Setup [SPS]** by pressing the **"OK" button**.
- 3** Confirm the menu item **Channel Level [CHL]** by pressing the **"OK" button**.
- 4** As first item **Test Tone [TON]** is selected automatically. Press The **"OK" button** if you want to activate the Test Tone generator.
- 5** Select **[ON]** to activate the test tone generator using the **"+" key**, select **[OFF]** to disable it using the **"-" key**.

- 6 If activated, the front left speaker [FL] generates a pink noise signal. Press "M" and then the Down key "↓", or directly the Down key "↓" to select this left front speaker [FL] from the speaker list.
- 7 Use the "+" resp. the "-" button to change the volume level. Go back to the speaker selection list by pressing "OK".
- 8 To select a different speaker, use the "+" resp. the "-" key.
- 9 The speaker selected in the list of speakers plays back the test tone. At your listening position, all speakers should have approximately the same volume level.
- 10 Only speakers that have been activated in the Output Setting [OPS] / Speaker Config [SPC] menu are selectable. Speakers that have been deactivated (displayindication [NO]) can not be selected and are grayed out.
- 11 It is difficult to find the correct volume level for a subwoofer, because of the different frequency band. Therefore, adjust the Subwoofer value to your preferred level.
- 12 To exit the menu item, press the "**M**" button. The test tone generator will be deactivated automatically.

### **SPEAKER DISTANCE [DST]**

An adjustment of the distance between the speakers and listening position is needed for a perfect spatial effect, especially in case of multichannel input signals. Measure and enter the distance between the speakers and your listening position. The distance is adjustable between 0.0m and 9.9m, in steps of 0.1m, where 3.0m is the factory setting.

To adjust the distance please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Enter the first menu item Speaker Setup [SPS] by pressing "OK".
- 3 Select the menu item **Speaker Distance [DST]** using the "↑" or "↓" button and confirm with the "OK" button.
- 4 Select the speaker that you want to adjust the distance of by using the "↑" or "↓" button and press "OK".  
Only speakers that have been activated in the Output Setting [OPS] / Speaker Config [SPC] menu are selectable. Speakers that have been deactivated (displayindication [NO]) can not be selected and are grayed out.
- 5 You can adjust the distance by using the "+" and "-" buttons. To go back to the speaker list press the "OK" button.
- 6 Press the "**M**" button to exit this menu item.

**Note:** If the distance is bigger than 9,9m, set the difference values of the individual distances in relation to 3m. Decisive for the calculation of the spatial effect are the differences between the channels, not the absolute distance values.

**DRC [DRC]**

Dynamic Range Control (DRC) is a setting option created by Dolby Laboratories. When activated, the dynamic range of encoded data streams can be automatically reduced, which also reduces differences in volume. This makes it possible to enhance quiet tones and suppress loud ones.

To activate or deactivate the function DRC please do the following:

- 1 Press the menu button "M" on the remote to enter the menu.
- 2 Confirm the first menu item Speaker Setup [SPS] by pressing the "OK" button.
- 3 Use the "▲" or "▼" button to select the menu item Compression [DRC] and confirm with the "OK" button.
- 4 Activate or deactivate the function Dynamic Range Control [DRC] using the "+" or "-" key:  
     [ON] means the DRC function is activated and the dynamic range is controlled by the meta data of the data stream.  
     [OFF] means the function is deactivated and the dynamic range will not be controlled.
- 5 Press the "M" **button** to exit this menu item.

**VOICE CLARITY [VOI]**

Use the "Voice Clarity" function to improve the speech intelligibility. This allows you to better understand dialogues (speech) in films with loud effects, for example.

To activate respectively deactivate the function "Voice Clarity" please do as follows:

- 1 To enter the menu, press the "M" button.
- 2 Enter the first menu item Speaker Setup [SPS] by pressing "OK".
- 3 Use the "▲" or "▼" button to navigate to the item Voice Clarity [VOI] and confirm with the "OK" button.
- 4 Activate or deactivate the function Dynamic Range Control [DRC] using the "+" or "-" key:  
     [ON] = Function is activated  
     [OFF] = Function is deactivated
- 5 Press the "M" **button** to exit this menu item.

## **EQ [EQ]**

In this menu you can adjust the frequency response of the loudspeakers that are connected to the Smart Amp 5.1 to match the room condition. You can choose between 3 EQ-settings for each speaker resp. each pair of speakers. A free position in the room is the factory setting.

To change the equalizer settings for a specific speaker or pair of speakers please do the following:

- 1 To enter the menu, press the "M" button.
- 2 Enter the first menu item Speaker Setup [SPS] by pressing "OK".
- 3 Select the menu item Equalization [EQ] using the "↑" or "↓" button and confirm with the "OK" button.
- 4 Select the desired speaker by using the "↑" and "↓" button and confirm your selection by pressing "OK".
- 5 Choose between the 3 following settings:
  - EQ1 for free positioning in the room.
  - EQ2 for positioning close to a rear or side wall.
  - EQ3 for positioning in a corner of the room.
- 6 Press the "M" **button** to go back to the selection list and repeat the process for the rest of speakers.
- 7 Press the "M" **button** to exit this menu item.

## **XOYER SMALL SPEAKERS [XOV]**

With this menu item you can set the crossover frequency between a small or bookshelf speaker (Speakerconfiguration [SPC] = Small) and a connected subwoofer. This function is only available if at least one of the connected speakers ist set as Small or if you are using small or bookshelf Canton Smart speakers (Speakerconfiguration [SPC] = Smart), otherwise this function is grayed out. All speakers that are set as Large (Speakerconfiguration [SPC] = Large) will receive the full audio signal without any filtering. Multiple crossover frequencies are available between 40Hz and 200Hz. In general: The smaller a speaker, the higher the crossover frequency.

To set the crossover frequency between speakers and the subwoofer please do as follows:

- 1 Press the menu "M" **button** on the remote to enter the menu.
- 2 Confirm the first menu item **Speaker Setup [SPS]** by pressing the "OK" **button**.
- 3 Use the "↑" or "↓" **button** to select the menu item Xoyer Small Speakers [XOV] and confirm with the "OK" **button**.
- 4 Choose the desired crossover frequency using the "+" resp. the "-" **key**.
- 5 Press the "M" **button** to exit this menu item.

### **SUBWOOFER SETUP [SUB]**

In this menu you can adjust the phase of a connected subwoofer and activate different Sub Stereo Modes [SSM] and adjust the crossover frequency between a subwoofer and the front speakers. This menu item is only available if a subwoofer (Smart or Analog) is activated in the Speakerconfiguration menu.

### **SUB PHASE [PHA]**

Use this function **Sub Phase** to change the phase of a connected subwoofer between 0 degree (factory setting) and 180 degree (phase inverted) relative to the other speakers. Try a phase shift of 180 degree in case the bass level at the selected crossover frequency in the menu Xover Small Speakers [XOV] seems to be much too low or completely off. This function works for both, wirelessly and wired subwoofers. This function is only available if a subwoofer (Smart or Analog) has been selected in the menu Speakerconfiguration [SPC].

To set the subwoofer's phase to 180 degree resp. back to 0 degree, please do the following:

- 1** To enter the menu, press the **"M" button**.
- 2** Use the **"↑" or "↓" button** to navigate into the menu **Speaker Setup [SPS]** and confirm with the **"OK" button**.
- 3** Use the **"↑" or "↓" button** to navigate into the menu **Subwoofer Setup [SUB]** and confirm with the **"OK" button**.
- 4** Use the **"↑" or "↓" button** select the menu item **Sub Phase [PHA]** and confirm with the **"OK" button**.
- 5** Change the setting using the **"+" or "-" key between 0 degree [0] and 180 degree [180]** and confirm with the **"OK" button**.
- 6** To exit the menu, press the **"M" button**.

### **SUB STEREO [SSM]**

If you are using large speakers (Speakerconfig [SPC] = Large) you can select the Sub Stereo Mode "Parallel" to have the full music signal (including the bass) routed to the front speakers (FL, FR) and have the bass routed additionally to the subwoofer in the playmode Stereo. In the Sub Stereo Mode "Xover" you can split the signal between the subwoofer and the large front speakers using a crossover. The crossover frequency can be adjusted in the menu item Stereo Sub Xover [SSX] in values between 40 Hz and 100 Hz. This function is only available if a subwoofer (Smart or Analog) is activated in the Speakerconfiguration menu. This function is set to Off [OFF] as factory setting.

To activate or change the Sub Stereo Mode please do as follows:

- 1** To enter the menu, press the **"M" button**.
- 2** Confirm the first menu item **Speaker Setup [SPS]** with the **"OK" button**.
- 3** Use the **"↑" or "↓" button** to select the menu item **Subwoofer Setup [SUB]** and confirm with the **"OK" button**.
- 4** Use the **"↑" or "↓" button** to select the menu item **Sub Stereo Mode [SSM]** and confirm with the **"OK" button**.

- 5 Use the "+" resp. the "-" **key** to select the desired function:

Off [OFF] means that the bass signals are played through the front speakers Front Left and Front Right.

Parallel [PAR] means that the subwoofer plays the bass signals additionally to the front speakers

Xover [XOV] means that the bass signals below the set crossover frequency Stereo Sub Xover are played through the subwoofer

- 6 Confirm and exit the menu item by pressing the **"M" button**.

### **STEREO SUB XOVER [SSX]**

With this menu item you can set the frequency at which the audio signal is split into the signal for the subwoofer and the signal for the front speakers in the Sub Stereo Mode "Xover". This menu item is only available if the Sub Stereo Mode is set to "Xover".

To adjust the crossover frequency between subwoofer and front speakers please do the following:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the "↑" or "↓" **button** to navigate into the menu **Speaker Setup [SPS]** and confirm with the **"OK" button**.
- 3 Use the "↑" or "↓" **button** to navigate into the menu **Subwoofer Setup [SUB]** and confirm with the **"OK" button**.
- 4 Use the "↑" or "↓" **button** select the menu item **Stereo Sub Xover[SSX]** and confirm with the **"OK" button**.
- 5 Change the setting using the "+" or "-" **key between 40 Hz [40] and 100 Hz [100]** and confirm with the **"OK" button**.
- 6 To exit the menu, press the **"M" button**.

### **ROOM HEIGHT [RHE]**

To get an optimal spatial impression (3D sound) during the playback of Dolby Atmos® bitstreams, the setting of the room height is necessary. The room height can be set up to 9.90m in 0.1m steps, with 2.5m being the factory setting.

To set the room height please do the following:

- 1 To enter the menu, press the **"M" button**.
- 2 Confirm the first menu item Speaker Setup [SPS] with the **"OK" button**.
- 3 Use the "↑" or "↓" **button** to select the menu item **Room Height [RHE]** and confirm with the **"OK" button**.
- 4 Use the "+" resp. the "-" **key** to set the desired height.
- 5 Confirm and exit the menu item by pressing the **"M" button**.

**Note:** The menu item Room Height **[RHE]** is only available and not grayed out if Top Front-speakers have been activated in the menu "Speaker Config" **[SPC]**.

**DEVICE HEIGHTS [DHE]**

In case of using Dolby Atmos® enabled speakers that direct the sound upwards to the ceiling it is necessary to set the heights of these speakers (for example when placed on top of normal speakers or on a nearby surface) to achieve an optimal spatial surround impression (3D sound). The heights can be set in 0.1m steps for the front and rear "Upfire" speakers separately, with 1m being the factory setting.

To set the device heights please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Confirm the first menu item **Speaker Setup [SPS]** with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu item **Device Heights [DHE]** and confirm with the "**OK**" button.
- 4 Use the "**+**" resp. the "**-**" key to select the desired pair of speakers (front or rear) and confirm your selection with the "**OK**" button.
- 5 Use the "**+**" resp. the "**-**" key to set the height and confirm your selection with the "**OK**" button. Repeat this steps in case for the other pair of speakers.
- 6 Confirm and exit the menu item by pressing the "**M**" button.

**Note:** The menu item Device Heights [DHE] is only available and not grayed out if Top Front-speakers have been activated in the menu "Speaker Config" [SPC].

**SOUND SETUP [SND]**

In this menu you can adjust the tone control settings for bass, mid and treble. These adjustments are identical to the ones that can be made using the **Sound-button** on the Smart remote.

To adjust the settings for the tone control settings, please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Enter the first menu item **Speaker Setup [SPS]** and press the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to navigate to the item **Sound Setup [SND]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to navigate to the parameter you want to adjust and use the "**+**" or "**-**" button to select the desired gain given in dB.
- 4 Press the "**M**" button to exit this menu item.



## 2. SYSTEM SETUP [SYS]

The second item in the main menu is the System Setup. It contains the following menu items:

- Sleep Timer [SLP]
- IR Menu [IRM]
  - IR Learn [IRL]      –Direct Input Learn [DIL]      –IR Clear [RES]
- HDMI CEC [CEC]
- Standby Mode [STB]
- Input Config [INP]
- Analog Gain [OFS]
- Input Select [SEL]
- Lipsync [LIP]
- Max Volume [VOL]
- Playmode [PLM]
- 3D Audio [3D]
- Display Setup [UI]
  - Language [LAN]      –LED Flashing [LED]      –Input Stream Display [ISD]      –Slave Display [SUI]
- Factory Reset [RES]
  - OTA Recovery [OTA]

### SLEEP TIMER [SLP]

If this function is enabled, the system shuts down to standby mode after a specified time. You can select 15, 30, 45 or 60 Minutes.

If the value OFF is selected, the function is disabled.

To adjust the shut down time, please follow the next steps:

- 1** To enter the menu, press the "**M**" button.
- 2** Use the "**▲**" or "**▼**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3** Confirm the first menu item **Sleep Timer [SLP]** by pressing the "**OK**" button.
- 4** Select the desired time using the + or – keys.
- 5** Press the "**M**" button to exit this menu item.

**Note:** The Sleep Timer will be disabled automatically after a power down. That means the shut down time must be selected again after every power up sequence in order to use this function.

**IR MENU [IRM]**

This menu includes all functions relevant for the infrared operation of the amplifier. It consists of three submenus.

**IR LEARN [IRL]**

The system can learn the infrared codes of your TV remote control and therefore allows you to control the functions of the amplifier and your TV via one remote control. You can allocate any key of the TV remote control to your Amp 5.1. When choosing a key, make sure that the instructions for the amplifier do not conflict with the TV. We recommend that you deactivate the internal loudspeakers of the TV once the amplifier is connected. Then you can use the volume keys for the Amp 5.1.

To learn the IR codes of a third party remote please do the following steps:

- 1** To enter the menu, press the **"M" button**.
- 2** Use the **"↑"** or **"↓"** **button** to navigate to the menu **System Setup [SYS]** and confirm with the **"OK" button**
- 3** Select the **IR Menu [IRM]** by using the **"↑"** or **"↓"** buttons and press the **"OK" button** to confirm.
- 4** Confirm the first menu item Sleep Timer **[SLP]** with the **"OK" button**. **"Please press key you want to learn"** appears on the screen, the display flashes **[IRL]**.
- 5** Please press the desired function on the Canton Smart remote control.

**Note:** The IR codes of a TV remote can be assigned to all buttons of the optionally available Canton Smart remote alike.

- 6** "Press the new button" will be shown on the screen with the name of the selected key (e.g. "Volume +") below. The display indicates the selected function as well (e.g. V+).
- 7** Within 15 seconds, press the key you wish to allocate to this function on the TV remote.
- 8** Once the IR command has been successfully allocated, the display shows **[OK]** resp. the OSD shows "Success" and you can continue with the programming of the next function, e.g. "Volume -".
- 9** If the display shows **[FAI]** and the name of the selected key disappears, the allocation has failed or the time exceeded. Now you need to repeat steps 5 to 8. Please try a lower or higher distance between the Amp 5.1 and the TV remote control in case the process fails again. Alternatively, try to press the key on the TV remote shorter or longer.
- 10** To exit the IR Learn menu, press and hold the **"M" button** for 3 seconds. After one minute without input, the system automatically returns to the IR menu.

- Notes:**
- The "On/Standby" key has a dual function. Press it once and the display shows [ON] which allows the "on" function to be programmed. If the key on is pressed twice in quick sequence, the display shows [STB] and the "Standby" function can be learned. If your TV remote control has only one key for the "On" and "Standby" functions, both the "On" and "Standby" function must still be allocated with this command.
  - Due to the variety of infrared codes it is not possible to guarantee that every IR remote control signal can be learned by the Smart Amp 5.1. Signals from radio frequency (RF) remote controls cannot be learned in general!

### **DIRECT INPUT LEARN [DIL]**

This function allows the user a direct selection of the signal inputs if using a third party remote control. In addition to the **INPUT UP**(↑) and **INPUT DOWN**(↓) function, you can directly select the signal inputs (e.g. ARC) when using your TV or universal remote control. That means you can allocate the desired input to a key on your remote control.

To learn the relating IR codes please do the following steps:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the **"↑" or "↓" button** to navigate to the menu **System Setup [SYS]** and confirm with the **"OK" button**.
- 3 Select the **IR Menu [IRM]** by using the **"↑" or "↓" buttons** and press the **"OK" button** to confirm.
- 4 Choose the function **Direct Input Learn [DIL]** by using the **"↑" or "↓" button** and press the **"OK" button** to confirm.
- 5 "Press the new button" will be shown on the screen with the name of the first input "BDP". The display flashes [HD1]. Now you can allocate a key on your TV or universal remote to the input BDP **[HD1]**.

**Note:** If you press this key on the remote control while the Amp 5.1 is in normal mode, the system switches directly to the HD1 (BDP) input.

- 6 Press the desired key on the remote control. If the infrared code has been successfully stored by the system, **[OK]** is shown briefly in the display resp. "Success" on the screen, followed by the next input.
- 7 If the code could not be learned, **[FAI]** appears briefly on the display resp. "Failed" appears on the screen to indicate that no code has been stored. In this case **[HD1]** will still be displayed. Please try a lower or higher distance between the Amp 5.1 and the TV remote control in case the process fails again. Alternatively, try to press the key on the TV remote shorter or longer.
- 8 If you do not want to assign a button to input HD1, you can select the next input (in this case HD2) by pressing the **"↓" button**. The **"↑" button** takes you to the previous input.
- 9 If you do not press any button on the TV remote control within 15 seconds, the system returns to the IR Menu.
- 10 The BT input is the last entry in the list. After this input the system jumps back to the IR menu.

**Note:** Due to the variety of infrared codes it is not possible to guarantee that every IR remote control signal can be learned by the Connect 5.1. Signals from radio frequency (RF) remote controls cannot be learned, generally!

**IR CLEAR [CLR]**

Use this function to delete all IR codes stored on the Amp 5.1.

To delete IR commands please do the following:

- 1 To enter the Menu, press the "**M**" **button**.
- 2 Use the "**↑**" or "**↓**" **button** to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" **button**.
- 3 Use the "**↑**" or "**↓**" **button** to select the **IR Menu [IRM]** and confirm with the "**OK**" **button**.
- 4 Use the "**↑**" or "**↓**" **button** to select the menu item **IR Clear [CLR]** and confirm with the "**OK**" **button**.
- 5 "Reset All" appears on the screen and **[YES]** appears on the display. Press the OK button on the Canton Smart remote to delete the stored commands. The screen will display "Please Wait". The system will then return to the IR menu [IRM].
- 6 To cancel the operation, press the "**M**" **button** or press "OK".

**HDMI CEC [CEC]**

Consumer Electronics Control is a cross-market standardized protocol for controlling devices connected to the HDMI® inputs/outputs. By default this function activated [ON].

The CEC functions supported by the Smart Amp 5.1 are:

- **One touch Play:** By pressing the "Play" button of e.g. a Blu-Ray player the Amp 5.1 switches on automatically and changes to the corresponding HDMI® input.
- **System Standby:** With the TV switched on and then turning it into standby mode by pressing the "Power" key the Amp 5.1 also goes automatically into standby mode.  
**Note:** Depending on the programming of the TV device, the Amp 5.1 can also be automatically activated with the TV.
- **Volume/Mute:** The volume of the Amp 5.1 can be operated using the Mute and Volume buttons of the TV remote control.

To activate/deactivate this function please proceed with the following steps:

- 1 To enter the Menu, press the "**M**" **button**.
- 2 Use the "**↑**" or "**↓**" **button** to select the menu item **System Setup [SYS]** and confirm with the "**OK**" **button**.
- 3 Use the "**↑**" or "**↓**" **button** to select the menu item **HDMI CEC [CEC]** and confirm with the "**OK**" **button**.
- 4 Use the "**↑**" or "**↓**" **button** to select "**OFF**" [**OFF**] to disable the CEC function resp. "**ON**" [**ON**] to enable the function.
- 5 Press the "**M**" **button** to exit this menu item.

- Notes:**
- Many device manufacturers have developed their own protocols for controlling their devices based on the CEC standard. This can mean that the functions described above only function partially or does not function at all.
  - In order to avoid conflicts when controlling the Smart Amp 5.1, the "Volume +/-", "Mute" and "Power" buttons on the TV remote control should not be learned through the IR learn function of the amplifier when using the CEC function. Delete the codes if necessary.

### **STANDBY MODE [STB]**

This function controls, how the Amp 5.1 powers up resp. down – manually or automatically, partly dependent on an incoming audio signal. The Amp 5.1 supports the following functions:

- **ECO [ECO]:** If **ECO** is selected, the Amp 5.1 enters standby mode after 20 minutes without any detected audio signal at the selected input and needs to be powered up manually using the remote control.
- **Network [NSB]:** If **Network** [NSB] is selected, the Amp 5.1 must be turned on manually and will automatically enter standby after 20 minutes without detected audio at the selected input. However, there is a difference to the ECO mode, as described below. Network [NSB] is the default setting of the Amp 5.1.
- **Auto [AUT]:** If **Auto** is selected, the Amp 5.1 turns on automatically if an audio signal is detected at the input recently used. If no signal is detected any longer, the Amp 5.1 enters standby mode after 1 minute (at the digital inputs Optical, Coaxial and Bluetooth) resp. 15 minutes (at the analog input Line [AUX]).
- **Manuell [MAN]:** If **Manual** is selected, the Amp 5.1 stays active permanently and must be powered up and down manually, using the remote control.

If **ECO** is selected, all wirelessly connected speakers will be powered down automatically, but each speaker must be powered up individually. This is the operation mode with the lowest standby power consumption. All the other modes **Network**, **Auto**, and **Manual** provide an automatic power up function for all wirelessly connected speakers when powering up the Smart Amp 5.1 (Master Device).

- Notes:**
- If the standby mode is set to Auto **[AUT]** and the Amp 5.1 is set to standby mode using the "ON/Standby" key of the remote control, it is not possible for the Amp 5.1 to switch on automatically. To use the Auto mode of the Amp 5.1 as intended, do not power down the Amp 5.1 using the On/Standby key but always wait until the Amp 5.1 powers down, automatically.
  - To avoid an unintentional power-up of the Amp 5.1 using the analogue input, the threshold value has been set quite high. To make sure the Amp 5.1 powers up correctly, please set the output level of your analog audio source to a high level (but not more than 2Vrms).

To set the standby mode, please do the following:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate into the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Choose the function **Standby Mode [STB]** using the "**↑**" or "**↓**" button and confirm with the "**OK**" button.
- 4 Use the "**+**" or "**-**" button to select the wanted Standby mode and confirm with the "**OK**" button.
- 5 Press the "**M**" button to exit this menu item.

### **INPUT CONFIG [INP]**

As the factory settings all physically available inputs are already assigned with a source name. Therefore, the LED display and the screen do not show the name of the (physical) input, but the source name of a (possible) source device. You can change the name assigned to an input to suit your source device in the menu Input Config **[INP]**. It is also possible to deactivate (- -) physical inputs so that they are no longer displayed, which will make the source selection faster.

The factory settings are as follows:

Physical Input	OSD	Display	Source Name	
HDMI® Input 1	HDMI1	[HD1]	BDP	(Blu-Ray Player)
HDMI® Input 2	HDMI2	[HD2]	SAT	(Satelite Receiver)
HDMI® Input 3	HDMI3	[HD3]	PS	(Video Console)
HDMI® Output	ARC	[ARC]	TV	(Television)
Optical Digital Input	OPT	[OPT]	CD	(CD Player)
Coaxial Digital Input	COAX	[COA]	DVD	(DVD Player)
Analoque Line Input	Analog	[ANA]	AUX	(Analogue Device)

To change the name of an input or to deactivate an input please proceed as follows:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the **"↑" or "↓" button** to navigate into the menu **System Setup [SYS]** and confirm with the **"OK" button**.
- 3 Use the **"↑" or "↓" button** to select the menu item **Input Config [INP]** and confirm with the **"OK" button**.
- 4 Use the **"↑" or "↓" button** to select the desired input and confirm with the **"OK" button**.
- 5 Select the desired source name by using the **"↑" or "↓" button**. You can choose from the following predefined designations:  
"- - -" (input disabled), TV, BDB, SAT, CD, DVD, CAM, REC, PAD, POD, TAB, TUN, DAB, PS, VCR, ATV, PC, AUX. After selecting the name exit the input item by pressing the **"OK" button**.
- 6 To assign a name to another input, repeat steps 4 and 5.
- 7 To leave this menu item, press the **"M" button**.

- Notes:**
- Should you assign a name to an input that is already assigned, the input previously assigned with this name will be deactivated ("- - -"). To continue using this input, you must assign a different name. Each source name can be assigned only once.
  - Inputs which have been deactivated ("- - -") are no longer displayed when selecting the inputs. This simplifies the selection of the desired input.
  - The name for the input BT (Bluetooth®) and NET (Network) cannot be changed.

### **ANALOG GAIN [OFS]**

With this function you can adjust the signal gain of the analogue Line input **[AUX]** relating to that of the digital source(s) in a range from -6dB to +6dB. You may use this function to balance the volume levels. 6dB doubles (+6dB) resp. halves (-6dB) the output gain of your playback source.

For setting the offset volume level, proceed as follows:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the **"↑" or "↓" button** to navigate to the menu **System Setup [SYS]** and confirm with the **"OK" button**.
- 3 Select the menu item **Analog Gain [OFS]** using the **"↑" or "↓" buttons** and confirm with the **"OK" button**.
- 2 Use the **"+" resp. the "-" key** to adjust the volume level.
- 3 Press the **"M" button** to exit this menu item.

**INPUT SELECT [SEL]**

If the **Input Select** function is set to **Auto [AUT]**, the Amp 5.1 automatically changes the optical, coaxial, analogue or Bluetooth® input as soon as the signal stops at the currently selected signal input and a different input signal is detected at one of the other inputs of the Amp 5.1. If **Manual [MAN]** is selected, the inputs must be selected manually by pressing the "↑" or "↓" **buttons**. This function is deactivated by default.

To activate (Auto) or deactivate (Manual) the **Input Select** function please proceed as follows:

- 1 To enter the menu, press the "**M**" **button**.
- 2 Use the "↑" or "↓" **button** to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" **button**.
- 3 Use the "↑" or "↓" **button** to select the menu item **Input Select [SEL]** and confirm with the "**OK**" **button**.
- 4 Use the "↑" or "↓" **button** to select the desired mode.
- 5 Confirm and press the "**M**" **button** to exit this menu item.

- Notes:**
- The input **[NET]** is always selected automatically in case of an incoming audio signal, even in the standby mode.
  - If you want the HDMI® inputs to be switched automatically too, please activate the HDMI CEC function in the same-named menu.
  - To automatically switch from the optical or coaxial digital input to one of the other inputs, the source device must be switched off.  
For the Analog Line and Bluetooth® input it is sufficient to stop the playback.

**LIPSYNC [LIP]**

The processing of video data in the TV or a videoprojector usually takes longer than the audio signal processing. **Lipsync [LIP]** allows you to take corrective action when the sound out of the Amp 5.1 is not lip-synchronous with the image on the TV. The delay of the audio signal can be set max. 200ms, in steps of 10ms.

To adjust the delay please proceed as follows:

- 1 To enter the menu, press the "**M**" **button**.
- 2 Use the "↑" or "↓" **button** to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" **button**.
- 3 Use the "↑" or "↓" **button** to navigate to the menu item **Lipsync [LIP]** and confirm with the "**OK**" **button**.
- 4 Use the "+" resp. the "-" **key** to select the desired delay.
- 5 Confirm and exit the menu item by pressing the "**M**" **button**.

- Note:** Because of wirelessly connected speakers the maximum possible delay may be lower than 200ms.



### **MAX VOLUME [VOL]**

You can limit the maximum settable volume with this (protective) function **Max Volume** in such a way that the sound level (indicated in the On-screen or LED display of the Amp 5.1) cannot be turned up above the set value. You can set the desired volume level from 1 to 70, where 70 represented the maximum.

To change the maximum volume please do the following:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to navigate to the menu item **Max Volume [VOL]** and confirm with the "**OK**" button.
- 4 Use the "**+**" resp. the "**-**" key to select the desired volume.
- 5 Confirm and exit the menu item by pressing the "**M**" button.

**Note:** This function does not limit the output volume level of the Amp 5.1 to a certain level but only the selectable volume. Based on the incoming signal (level) the output volume can be higher or lower.

### **PLAYMODE [PLM]**

In this menu you can activate additional playmodes that can then be used and selected in addition to the 3 standard playmodes Stereo, Movie and Music with the PM button on the optionally available Smart remote. These playmodes are:

- Discrete: Surround sound for movies, music, etc. without a virtualizer.
- Night: (Virtual) surround sound with reduced dynamic and higher voice clarity at low volume levels for "night usage".
- Party: Plays the front channels (L+R) additionally on the surround speakers.
- Pure Direct: Surround sound for movies, music, etc. without a virtualizer or upmixer.

To activate or deactivate an additional playmode please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu item **Playmode [PLM]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to select the desired playmode and press the "**OK**" button.
- 5 Use the "**+**" key to activate resp. the "**-**" key to deactivate the desired playmode and confirm by pressing the "**OK**" button.
- 6 To activate or deactivate a different playmode please repeat the steps 4 and 5.
- 7 Exit the menu item by pressing the "**M**" button.

### **3D AUDIO [3D]**

With this option you can adjust the intensity of the virtualizer and the virtual Dolby Atmos® effect to your personal taste. Starting from default setting **Normal [NOR]** you can increase the effect High [HIG] or decrease the effect **Low [LOW]**.

To adjust the setting, please do as follows:

- 1** To enter the menu, press the "**M**" button.
- 2** Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3** Use the "**↑**" or "**↓**" button to select the menu item **3D Audio [3D]** and confirm with the "**OK**" button.
- 4** Select the desired intensity using the "+" resp. the "-" key.
- 5** Confirm and exit the menu item by pressing the "**M**" button.

### **DISPLAY SETUP [UIS]**

The menu Display Setup includes all functions for the display in the front and the On-Screen menu.

### **LANGUAGE [LAN]**

With this option you can change the On-Screen menu (OSD) language from German to English and backwards.

To change the language please proceed as follows:

- 1** To enter the menu, press the "M" button.
- 2** Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3** Use the "**↑**" or "**↓**" button to select the menu **Display Setup [UIS]** and confirm with the "**OK**" button.
- 4** Use the "**↑**" or "**↓**" button to select the menu item **Language [LAN]** and confirm with the "**OK**" button.
- 5** Use the "+" resp. the "-" key to select the desired language.
- 6** Confirm and exit the menu item by pressing the "**M**" button.

### **LED FLASHING [LED]**

With this option you can deactivate the flashing of the green LED in the front to indicate the missing network setup and turn the red and green LED on permanently instead.

To change the missing network indication please proceed as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu **Display Setup [UIS]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to select the menu item **LED Flashing [LED]** and confirm with the "**OK**" button.
- 5 Use the "**+**" resp. the "**-**" key to select the desired LED indication and confirm with the "**OK**" button.
- 6 Confirm and exit the menu item by pressing the "**M**" button.

### **INPUT STREAM DISPLAY [ISD]**

With this option you can deactivate (Manual) or activate (Auto) the appearance of the info bar on your TV screen with informations about the input stream, playmode and volume.

To deactivate or activate appearance of the info bar please proceed as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu **Display Setup [UIS]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to select the menu item **Input Stream Display [ISD]** and confirm with the "**OK**" button.
- 5 Use the "**+**" or "**-**" button to deactivate (Manual) resp. activate (Auto) the input stream display confirm with the "**OK**" button.
- 6 Exit the menu item by pressing the "**M**" button.

### **SLAVEDISPLAY [SUI]**

With this option you can activate resp. deactivate the synchronization and the simultaneous flashing of the blue LED-displays of connected Smart speakers.

To change the synchronization of the displays of connected Smart (slave) speakers please proceed as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu **Display Setup [UIS]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to select the menu item **Slavedisplay [SUI]** and confirm with the "**OK**" button.
- 5 Use the "**+**" or "**-**" button to activate resp. deactivate the synchronization confirm with the "**OK**" button.
- 6 Exit the menu item by pressing the "**M**" button.

**FACTORY RESET [RES]**

With this function you can reset the Smart Amp 5.1 to its factory settings. In case the Amp 5.1 has a malfunction or does not connect to a network anymore, please perform such a reset and repeat the installation process before you contact the customer support.

**Caution:** ALL settings you have made including IR codes, the WiFi connection and paired mobile devices and speakers will be deleted.

To perform the reset using the **remote control** of the Amp 5.1 please proceed as follows:

- 1 **Power up your Amp 5.1 using the Power** "⏻" key on the remote.
- 2 To enter the menu, press the "M" button until the display shows [SPS] and the Main Menu is entered.
- 3 Use the "↑" or "↓" **button** to navigate to the menu **System Setup [SYS]** and confirm with the **"OK" button**.
- 4 Select the function **Factory Reset [RES]** and confirm with the **"OK" button**. The display shows [YES], the OSD indicates **"Reset All"**.
- 5 To cancel the reset procedure, press the "M" button. The display shows [RES] again. Press this key additional two times to exit the menu.
- 6 To execute the reset, keep **"Reset All" [YES]** and confirm with the **"OK" button**. The display then shows [YES] to confirm the reset procedure, the OSD shows "Please Wait".
- 7 After some seconds the Amp 5.1 reboots. During this procedure the display flashes [ON] and the LED flashes green fastly.

To perform the reset using the **touch keys** on the top of the Amp 5.1 please proceed as follows:

- 1 **Power up your Amp 5.1 using the Power** "⏻" key.
- 2 To enter the menu, press the **input select key** "⏮" until the display shows [SPS] and the Main Menu is entered.
- 3 Use the "+" or "-" **key** to navigate to the menu **System Setup [SYS]** and confirm with the **Play/Pause button "▶||"**.
- 4 Select the function **Factory Reset [RES]** and confirm with the **Play/Pause button "▶||"**. The display shows [YES], the OSD indicates **"Reset All"**.
- 5 To cancel the reset procedure, press the input select key "⏮". The display shows [RES] again. Press this key additional two times to exit the menu.
- 6 To execute the reset, keep **"Reset All" [YES]** and confirm with the **Play/Pause button "▶||"**. The display then shows [YES] to confirm the reset procedure, the OSD shows "Please Wait".
- 7 After some seconds the Amp 5.1 reboots. During this procedure the display flashes [ON] and the LED flashes green fastly.

### **OTA RECOVERY [OTA]**

With this function you can repeat the update-process of the Amp 5.1 and fix potential errors, that may have been caused by a faulty or failed update.

To recover a firmware-update please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **System Setup [SYS]** and confirm with the "**OK**" button.
- 3 Use the "**↑**" or "**↓**" button to select the menu item **Factory Reset [RES]** and confirm with the "**OK**" button.  
The OSD shows the menu **Factory Reset** and "**No**" is selected, the display shows **[NO]**.
- 4 Use the "**↑**" or "**↓**" button to select the menu item **OTA Recovery [OTA]** and confirm by pressing the "**OK**" button.
- 5 The OSD shows "**Please make sure the network is available. The OTA will start automatically**".
- 6 After about 10 seconds the Amp 5.1 performs a software-update if an update is available and restarts afterwards. During the starting process the LED flashes green rapidly.

## **3. NETWORK SETUP [NWS]**

The third menu item of the Main menu includes the setup of the network connection. It contains the two items:

- Network Connection **[NWC]**
- Network Reset **[NWR]**

### **NETWORK CONNECTION [NWC]**

At this menu the connection way of the WiFi module is set. The module can be connected **Wireless [WLA]** (default) or **Wired [ETH]** using the Ethernet port of the Smart Amp 5.1.

To change the connection way from wireless to wired or contrary, do the following:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to navigate to the menu **Network Setup [NWS]** and confirm with the "**OK**" button.
- 3 Confirm the first item **Network Select [NWC]** with the "**OK**" button.
- 4 Select the desired connection way using the "**+**" or "**-**" key, **[WIF]** for a wireless resp. **[ETH]** for a wired network connection and confirm with the "**OK**" button.
- 5 Press the "**M**" button to exit this menu item.

**Note:** If the connection type is set from wireless **[WIF]** to wired **[ETH]**, the WiFi connection turns off automatically.

**NETWORK RESET [NWR]**

This function is to reset all network settings stored on the Amp 5.1 and set it to the factory settings.

**Caution:** All settings you have made and stored on the amplifier's WiFi module regarding Chromecast built-in resp. AirPlay will be deleted!

To perform the reset, proceed as follows:

- 1 Power up your Amp 5.1 using the Power "⏻" key.
- 2 To enter the menu, press the "M" button until the display shows [SPS] and the Main Menu is entered.
- 3 Use the "↑" or "↓" button to navigate to the menu **Network Setup [NWS]** and confirm with the "OK" button.
- 4 Select the function **Network Reset [NWR]** and confirm with the "OK" button. The display shows [YES], the OSD indicates "Reset All".
- 5 To cancel the reset procedure, press the "M" button. The display shows [RES] again. Press this key additional two times to exit the menu.
- 6 To execute the reset, keep "Reset All" [YES] and confirm with the "OK" button. The display then shows [YES] to confirm the reset procedure, the OSD shows "Please Wait".
- 7 After some seconds the Amp 5.1 returns to the Network Connection [NWC] menu to the menu item Network Reset [NWR] and the display shows [NWR] again. To exit the menu press the "M" button.

## 4. WIRELESS SETUP [WIS]

The fourth item of the Main menu is the Wireless Setup. In this menu you can perform settings on the wireless audio module (which is used to transmit audio signals wirelessly to Smart speakers) and the Bluetooth® wireless technology. It contains the items:

- Transmission Power [TXP]
- RF Channel [CHN]
- Bluetooth [BT]
  - BT Pairing [BTP]    – BT Select [BTS]    – Autoplay [ATP]    – Bluetooth Reset [BRE]
- Wireless Reset [WRE]

### TRANSMISSION POWER [TXP]

The wireless audio module of the Amp 5.1 is by default set to 25% of the maximum transmission power [ECO], according to -6dB. In most cases this is completely adequate for a stable and non-interrupted wireless connection with Smart speakers and/or a Smart subwoofer in the same room. In case of connection problems and/or audio dropouts you can increase the transmission power. At Medium setting [MED] the transmission power is at 50% (-3dB) and at Max at 100% (0dB).

To adjust the transmission power of the wireless audio module please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "▲" or "▼" button to navigate to the menu **Wireless Setup [WIS]** and confirm with the "**OK**" button.
- 3 Use the "▲" or "▼" button to select the item **Transmission Power [TXP]** and confirm with the "**OK**" button.
- 4 Select the desired transmission power using the "+" or "-" key and confirm your selection by pressing the "**OK**" button.  
ECO = 25% (-6dB)      Medium = 50% (-3dB)      Max = 100% (0dB).
- 5 Press the "**M**" button to exit this menu item.

### RF CHANNEL [CHN]

Usually the wireless audio module of the Amp 5.1 chooses a free radio channel in the 5.2GHz resp. 5.8GHz band automatically (AUTO / [AUT]). In case you use your WiFi in the 5GHz band too and dropouts in the audio transmission occur, this gives you the option to set the radio frequency of the wireless audio module to a specific channel.

If you select a different specific channel for your WiFi-router too, interferences and dropouts should no longer occur.

The selected frequency for the Amp 5.1 and the router should ideally be as far apart as possible. The Amp 5.1 uses the following radio channels:

- 5.2GHz Band: 5.2G-1 = 5180MHz      5.2G-2 = 5210MHz      5.2G-3 = 5240MHz
- 5.8GHz Band: 5.8G-1 = 5736MHz      5.8G-2 = 5762MHz      5.8G-3 = 5814MHz

To set the radio channel of the wireless audio module to a fix channel or to automatic selection please do as follows:

- 1 To enter the menu, press the "**M**" **button**.
- 2 Use the "**↑**" or "**↓**" **button** to navigate to the menu **Wireless Setup [WIS]** and confirm with the "**OK**" **button**.
- 3 Use the "**↑**" or "**↓**" **button** to select the item **RF Channel [CHN]** and confirm with "**OK**".
- 4 Select the desired radio channel (see above) using the "**+**" or "**-**" **key** and confirm your selection by pressing "**OK**".
- 5 Press the "**M**" **button** to exit this menu item.

## **BLUETOOTH SETUP [BT]**

In this menu you can set all features relating to the Bluetooth® wireless technology module integrated in the Smart Amp 5.1. The Bluetooth menu includes four submenus, as follows:

### **PAIR MODE [BTP]**

This menu allows you to set whether the Amp 5.1 sends a pairing request to (mobile) devices permanently [**AUT**], or whether this function is disabled [**MAN**] to avoid unwanted pairing processes with (mobile) devices. If you deactivate this function a pairing request can only be send manually using the Smart remote with the "Bluetooth Pairing" button. As factory setting this function is activated [**AUT**] to allow the pairing of (mobile) devices without the Smart remote. If you deactivate [**MAN**] this function you need to activate the function again in order to be able to pair additional (mobile) devices (or you need to use the Smart remote).

To change the setting please proceed as follows:

- 1 To enter the menu, press the "**M**" **button**.
- 2 Use the "**↑**" or "**↓**" **button** to select the menu item **Wireless Setup [WIS]** and confirm with the "**OK**" **button**.
- 3 Select the first menu item **Bluetooth Setup [BT]** and confirm with the "**OK**" **button**.
- 4 Confirm the menu item **BT Pairing [BTP]** and confirm with the "**OK**" **button**.
- 5 Use the "**+**" resp. the "**-**" **key** to select the desired connection type Manual [**MAN**] or Auto [**AUT**]:  
     [**AUT**] = The Amp 5.1 send pairing requests permanently.  
     [**MAN**] = The pairing process needs to be initiated by pressing the "Bluetooth Pairing" button on the Smart remote.
- 6 Exit the menu item by pressing the "**M**" **button**.



- Notes:**
- If a signal is being transmitted via Bluetooth® wireless technology, the Amp 5.1 does not send a pairing request to a second (mobile) device, even if Auto **[AUT]** is selected.
  - If the input Bluetooth **[BT]** is not selected, neither automatic nor manual pairing is possible. To achieve pairing independent of the selected input, the BT Select **[BTS]** function must be set to automatic.
  - For the requirements for a successful pairing process, please see chapter "Playback via Bluetooth® wireless technology".

### **BT SELECT [BTS]**

If this function is set to **Auto [AUT]**, the Amp 5.1 automatically switches to the **Bluetooth [BT]** input whenever it detects an audio signal from the (mobile) device. If this function is deactivated and set to **Manual [MAN] (factory setting)**, the input must be selected manually.

To activate / deactivate this function please proceed as follows:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the **"↑" or "↓" button** to select the menu item **Wireless Setup [WIS]** and confirm with the **"OK" button**.
- 3 Select the first menu item **Bluetooth Setup [BT]** and confirm with the **"OK" button**.
- 4 Use the **"↑" or "↓" button** to select the menu item **BT Select [BTS]** and confirm with the **"OK" button**.
- 5 Use the **"+" resp. the "-" key** to select the desired connection type Auto **[AUT]** or Manual **[MAN]**:
- 6 Confirm and exit the menu item by pressing the **"M" button**.

- Notes:**
- Depending on the (mobile) device with this function set to Auto **[AUT]** the Amp 5.1 may also switch to the input **[BT]** when typing a message or when other system sounds occur. A time delay of 5 seconds is programmed to avoid continuous switching (e.g. on arrival of a message).
  - If the BT Select function is activated **[AUT]**, the input **[BT]** cannot be selected using the **"↑" or "↓" buttons** any longer. In this mode, the Amp 5.1 can be paired with the (mobile) device at any time, regardless of the selected signal input.

**BT RESET [BRE]**

This function is to reset all Bluetooth® wireless technology related settings and paired devices stored on the Smart Amp 5.1.

**Caution:** ALL settings related to the Bluetooth® wireless module you have made and stored on the Amp 5.1 will be deleted.

To perform the reset please proceed as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "▲" or "▼" button to select the menu item Wireless Setup [WIS] and confirm with the "**OK**" button.
- 3 Select the first menu item **Bluetooth Setup [BT]** and confirm with the "**OK**" button.
- 4 Use the "▲" or "▼" button to select the menu item **BT Reset [BRE]** and confirm with the "**OK**" button. The menu shows "**Reset**", the display shows [YES].
- 5 To cancel the reset procedure, press the "**M**" button. The display shows [BRE] again. Press this key additional three times to exit the menu.
- 6 To execute the reset press the "**OK**" button. The display then shows [YES] to confirm the reset procedure, the OSD shows "**Please Wait**".
- 7 After the reset procedure, the Amp 5.1 exits the menu and goes into normal mode.

**AUTOPLAY [APL]**

If this function is activated [ON], the playback of a previously connected device with Bluetooth® wireless technology will start automatically when the Amp 5.1 is switched on. This starts playback of the media player app recently used on the (mobile) device.

Please do the following to activate resp. deactivate this function:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "▲" or "▼" button to select the menu item Wireless Setup [WIS] and confirm with the "**OK**" button.
- 3 Select the first menu item **Bluetooth Setup [BT]** and confirm with the "**OK**" button.
- 4 Use the "▲" or "▼" button to select the menu item Autoplay [APL] and confirm with the "**OK**" button.
- 5 Use the "+" resp. the "-" key to select the desired item On [ON] or Off [OFF].
- 6 Confirm and exit the menu item by pressing the "**M**" button.

**Note:** Depending on the operating system of the (mobile) device and the app, the app must run in the foreground or at least in the background. If there is no app or one that does not support background operation, playback will not start.

## **WIRELESS RESET [WRE]**

This functions allows you to delete all stored settings and paired Smart speaker and/or Smart subwoofer (slave speaker) connections of the wireless audio module of the Amp 5.1 and in this way reset the wireless module.

**Caution:** All settings and paired Smart speakers / Smart subwoofer that have been made according to the wireless audio module in the Amp 5.1 will be deleted.

To perform the reset please do as follows:

- 1 To enter the menu, press the "**M**" **button**.
- 2 Use the "**↑**" or "**↓**" **button** to navigate to the menu **Wireless Setup [WIS]** and confirm with the "**OK**" **button**.
- 3 Use the "**↑**" or "**↓**" **button** to select the menu item **Wireless Reset [WRE]** and confirm with the "**OK**" **button**. The menu shows "**Reset**", the display shows **[YES]**.
- 4 To cancel the reset procedure, press the "**M**" **button**. The menu goes back to the menu item Wireless Reset and the display shows **[WRE]** again. Press the "**M**" **button** additional two times to exit the menu.
- 5 To execute the reset press the "**OK**" **button**. The display then shows **[YES]** to confirm the reset procedure, the OSD shows "**Please Wait**".
- 6 After the reset procedure, the Amp 5.1 exits the menu and goes into normal mode.

## **5. OUTPUT SETUP [OPS]**

The fifth item of the Main menu is the Output Setup [OPS] which is used to set up both the speaker availability and speaker type, as well as the way the speakers are connected to the Smart Amp 5.1 – wired or wireless. It contains the two items:

- Speaker Config **[SPC]**
- Speaker Mapping **[SPM]**

## **SPEAKER CONFIG [SPC]**

In the menu Speaker Config [SPC] you can set the availability and the type of speakers for each pair of speakers (e.g. front left and right), the center speaker and the subwoofer. By default the Amp 5.1 has 5.1 passive speaker configuration. Setups from 2.0 up to 7.1.4 are possible using Canton Smart speakers, with maximum 6 speakers connected by wire and 8 Smart speakers connected wirelessly.

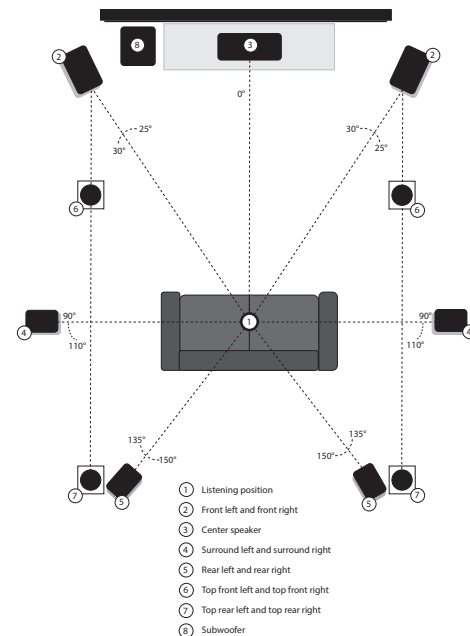
The following speakers can be set up with the Amp 5.1:

- **(2) Front left and right [FRT]:** The main speakers are positioned in the front left and front right and represent a "2.0 minimal configuration". The speakers should be positioned in a 25° to 30° angle from the listening position.
- **(3) Center [CE]:** The center speaker optimizes the center localization in a homecinema system and is the main source for speech. The center speaker should be positioned in the center under or above the TV.
- **(4) Surround left and right [SUR] :** They represent the two surround speakers in a 5.0 / 5.1 system. To achieve the best surround effects the speakers should be positioned in an angle between 90° and 110° (on each side) to the listening position with a minimum height of 60cm.
- **(5) Rear left and right [RER]:** These speakers are used in a 7 channel homecinema system. They support the surround speakers to reproduce a homogeneous surround sound. Ideally the two rear speakers are positioned in a 135° to 150° angle. When using the rear speakers [RER], the surround speakers [SUR] should be positioned a bit more to the front on the side of the listening position.

**Note:** Rear-speakers [RER] can only be activated if surround-speakers [SUR] are activated.

- **(6) Top Front left and right [TF]:** They reproduce the Dolby Atmos® signals. You can choose between upfiring speakers or ceiling speakers. The upfiring speakers (Dolby Atmos® Enabled speaker) are placed on top of the front left and right speakers. When using ceiling speakers the position should be left and right above the listening position (in a 90° angle, please refer to figure 1.1).

**Figure 1: Home cinema setup**

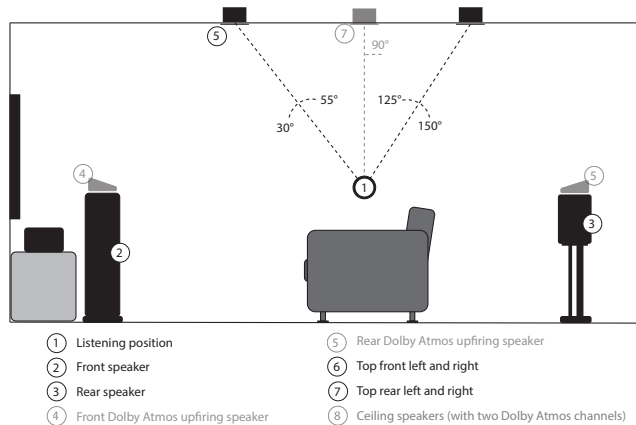


- **(7) Top Rear left and right [TR]:** They reproduce the Dolby Atmos® signals as well. To get an even more detailed spatial impression (3D Sound) you can use two additional up-firing speakers or ceiling speakers. The upfiring speakers (Dolby Atmos® Enabled speaker) are placed on top of the rear left and right speakers **[RER]** or the surround speakers **[SUR]**. When using ceiling speakers the position of the front speakers **[TF]** should be left and right in an angle between 30° and 55°, the rear speakers **[TR]** in an angle between 125° and 150° above the listening position (please refer to figure 1.1).

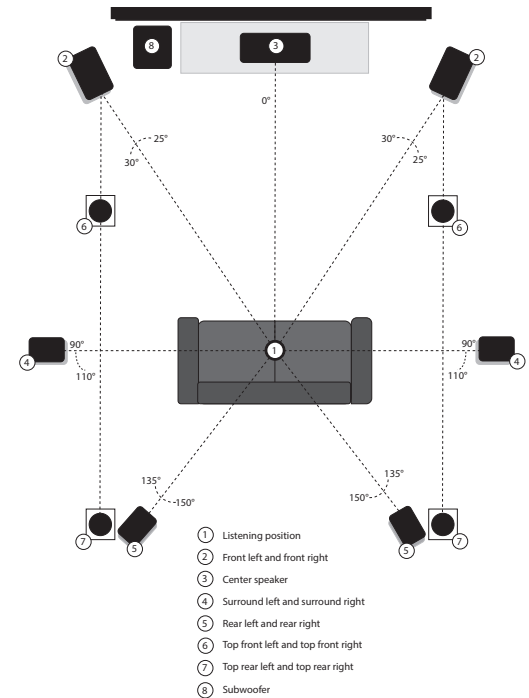
**Note:** Top rear speakers **[TR]** can only be activated if Top front speakers **[TF]** are activated.

- **(8) Subwoofer [SUB]:** The subwoofer reproduces the LFE channel (Low Frequency Effect). Additionally the subwoofer reproduces all frequencies that can not be reproduced by "small" speakers and are below the set crossover frequency (e.g. 100Hz) (please refer to the menu item **Crossover [XOV]**).

**Figure 1.1: Setup Atmos speaker**



**Figure 1: Home cinema setup**



For the following speaker channels you can find different speaker types in the Speaker Config **[SPC]** menu:

- Front Left and Front Right [FRT]: **Smart, Large, Small**
- Center [CE]: **NO, Smart, Large, Small**
- Surround Left and Surround Right [SUR]: **NO, Smart, Large, Small**
- Rear Left and Rear Right [RER]: **NO, Smart, Large, Small**
- Top Front Left and Top Front Right [TF]: **NO, Smart, Downfire, Upfire**
- Top Rear Left and Top Rear Right [TR]: **NO, Smart, Downfire, Upfire**
- Subwoofer [SUB]: **NO, Smart, Analog**

Individually those speaker types have the following meaning:

- Smart **[SMT]**: This type refers to speakers of the Canton Smart series. You can connect the audio signal wirelessly or wired (using a signal cable). The control commands (On/Standby state, volume, etc.) are always send wirelessly to the speakers. When using a Smart speaker the selection of the size and crossovers happens automatically. A 2.0 configuration with the speakers Front Left **[FL]** and Front Right **[FR]** is the minimum setup, which is why the the type **[NO]** is not selectable.
- Large **[LAR]**: Please use this type for large passive speakers that are connected to the speaker terminals of the Amp 5.1. The full audio signal will be routed without any frequency filtering.
- Small **[SMA]**: Please use this type for small passive speakers that are connected to the speaker terminals of the Amp 5.1. The audio signals above the set crossover frequency (e.g. 100Hz) will be routed to the small speakers. All frequencies below will be routed to the subwoofer.
- NO **[NO]**: Please use this type if you do not use the speaker channel and no speaker is placed on the corresponding position.
- Downfire **[CEI]**: Please select this type when using speakers that are mounted on the ceiling to reproduce Dolby Atmos® signals.
- Upfire **[UP]**: Please select this type when using upfiring speakers (Dolby Atmos® Enabled Speaker) that are placed on the top of the front and in case on the surround or rear speakers.
- Analog **[ANA]** (Subwoofer only) : Because there is no difference made between a small subwoofer and a large subwoofer, you can only select Smart, NO and Analog for using a passive subwoofer resp. an active subwoofer.

To set if a speaker / -pair is available and the speaker type please do as follows:

- 1 To enter the menu, press the "**M**" button.
- 2 Use the "**↑**" or "**↓**" button to select the menu item **Output Setup [OPS]** and confirm with the "**OK**" button.
- 3 Select the first menu item **Speaker Config [SPC]** and confirm with the "**OK**" button.
- 4 Use the "**↑**" or "**↓**" button to select the speaker / -pair that you want to adjust the settings of and confirm with the "**OK**" button.
- 5 Use the "**+**" resp. the "**-**" key to select the desired speaker type and return to the speaker list by pressing the "**M**" button.
- 6 Please repeat the steps 4 and 5 until all speakers / pair of speakers are set.
- 7 Exit the menu item by pressing the "**M**" button.

### **SPEAKER MAPPING [SPM]**

The Speaker Mapping [SPM] allows you to set up the connection between the Smart Amp 5.1 and the speakers. Only speakers that have been activated in the Speaker Config menu [SPC] can be connected. The connection can be wireless for Smart speakers or wired for passive speakers using the speaker outputs Analog1 to Analog5 plus Analog6 for a passive subwoofer. Maximum 6 speakers can be connected analogue using speaker cables (2 passive speakers pairs and one passive center speaker and one passive subwoofer) and 8 Smart speaker can be connected wirelessly. The names of the speaker terminals on the rear panel of the Amp 5.1 correspond with the factory default routing of the channels Front Left [FL], Front Right [FR], Surround Left [SL], Surround Right [SR], Center [CE] and Subwoofer [SUB].

The following three connection types are available:

- **Canton Smart speakers with the connection type Wireless:** In this case audio signals and control signals (On/Standby state, volume, etc.) are transmitted wirelessly. To establish a wireless connection between the Smart Amp 5.1 and Smart speakers they need to be paired.
- **Passive speakers with the connection type Analog 1 to Analog 5:** With this connection type passive speakers receive the audio signal using a speaker cable.
- **Subwoofer with the connection type Wireless, Sub Out or Analog1-6:** A Smart subwoofer can be connected wirelessly or wired using a RCA cable to connect the analogue input of the subwoofer with the Sub Out of the Amp 5.1. You can connect a passive subwoofer or an active subwoofer with high-level-inputs (speaker terminals) to the speaker outputs 1-6 if you set the subwoofer to Analog in the Speaker Config Menu [SPC]. It is recommended to use the output 6 to connect a passive subwoofer because this output is for subwoofer connections only. An active subwoofer can also be connected using a RCA cable to the Sub Out of the Amp 5.1

To establish a (wireless) connection between the Amp 5.1 and (Smart) speakers, please do the following:

- 1 Caution: Before starting the pairing process, the speaker to be paired (slave speaker) must have been disconnected from the mains for at least 30 seconds. Please unplug the power chord from the mains or switch the speaker off using the power switch.
- 2 To enter the menu, press the **"M" button**.
- 3 Use the **"↑"** or **"↓"** button to select the menu item **Output Setup [OPS]** and confirm with the **"OK" button**.
- 4 Use the **"↑"** or **"↓"** button to select the menu item **Speaker Mapping [SPM]** and confirm with the **"OK" button**.
- 5 Use the **"↑"** or **"↓"** button to select the speaker that you want to adjust and/or pair and confirm with the **"OK" button**.  
If you did not set a speaker or pair of speakers to Smart in the **Speaker Config menu [SPC]**, this option will not be available and Wireless can not be selected.
- 6 Use the **"+"** resp. the **"-" key** to chose between Wireless (if available) and Analog (Analog 1 – Analog 5 / Analog 6).  
If you want to use the outputs Analog 1 – Analog 5 and/or Analog 6 / Sub Out you can exit the menu after selecting the output by pressing the **"M" button**. Please repeat this step for all "not Smart" speakers.
- 7 If you want to connect your Smart speaker, "Wireless" will be the only selectable option. The abbreviations behind Wireless have the following meanings:
  - Wireless (DIS) = Smart speaker not connected (Disconnected)
  - Wireless (PIR) = Smart speaker pairing started (Pairing)
  - Wireless (CON) = Smart speaker connected
- 8 Pressing the **"OK" button** guides you to the pairing process. The indication on the screen changes from Wireless to Wireless(PIR).  
The info bar on top of the menu changes from **"Wireless pairing press OK"** to **"Pairing in process"**. The display shows the selected speaker.
- 9 Connect the speaker you want to pair to the mains and – if applicable – switch this speaker on at the power switch within 20 seconds.  
It does not matter if the speaker remains in stand by mode or if it starts up after you connected it to the mains.
- 10 After a few seconds a successful wireless pairing will be indicated with Wireless(CON) behind the selected speaker on the screen.  
The newly paired Smart speakers shows **[CON]** in its display. From now on the displays of the Smart Amp 5.1 and the paired Smart speaker are in sync and show the selected speaker. The info bar on top of the menu shows **"Pairing successful"**.
- 11 The Amp 5.1 automatically jumps to the next speaker in the list after a successful pairing. Please repeat the steps 7 to 10 to connect additional speakers.
- 12 Exit the menu item by pressing the **"M" button**.



- Notes:** If the speaker pairing failed and "Wireless pairing failed" is shown in the info bar on top of the menu please repeat steps 7 to 10 and verify that...
- a) ...the selected Smart speaker has been disconnected from the mains for at least 30 seconds.
  - b) ...not more then 20 seconds have been passed between pressing the **"OK" button** and switching the speaker on.
  - c) ...the distance between the Amp 5.1 and the speaker may not exceed 10m and they are in the same room.
- Please increase the transmission power of the wireless audio module described in chapter **Transmission Power [TXP]** if neccessary.

## 6. SYSTEM INFO [INF]

The fifth menu item of the Main Menu is the System Info. It contains the following items:

- Firmware Info [FWI]
  - WiFi [WIF]
  - Google Cast [GC]
  - STS Wireless [STS]
  - MCU Host [MCU]
  - DSP Audio [DSP]
  - OSD Fonts [OSD]
- Network Info [NWI]
  - IP Address [IP]
  - MAC Address [MAC]
  - Name [NAM]
  - SSID [SSI]
  - WiFi Band [BAN]
  - STS Wireless [WCH]

**FIRMWARE INFO [FWI]**

This feature helps you to check and verify the firmware installed on the Smart Amp 5.1. Before doing a service request, please check and note the indicated version numbers.

The listed items have the following meanings:

- **WiFi [WIF]:** The firmware version of the build-in WiFi module.
- **Google Cast [GC]:** The Chromecast build-in version.
- **MCU Host [MCU]:** The firmware version of the main control processor of the Amp 5.1 (like the OS on a computer).
- **STS Wireless [STS]:** The firmware version of the wireless audio module.
- **DSP Audio [DSP]:** The firmware version of the digital sound and signal processor.
- **OSD Fonts [OSD]:** The version of the On-Screen display fonts and display indications.

To view the firmware information, do the following:

- 1 To enter the menu, press the **"M" button**.
- 2 Use the **"↑"** or **"↓"** button to navigate to the menu **System Info [INF]** and confirm with the **"OK" button**.
- 3 Select the menu item **Firmware Info [FWI]** and confirm with the **"OK" button**. All firmware versions will be displayed as a list in case you have a TV connected.
- 4 In case you do not have a TV connected to the Amp 5.1 you can select the specific firmware version by using the **"↑"** or **"↓"** button and press the **"OK" button** to confirm. The information about the firmware version will then be shown as scroll text in the display. To exit the selected info press the **"M" button**.
- 5 Repeat step 4 until you have all needed informations.
- 6 Exit the menu item by pressing the **"M" button**.

**Note:** After a shutdown (Smart Amp 5.1 disconnected from the mains) it takes up to 90 seconds until the firmware version for the WiFi module [WIF] and the Google Cast [GC] version can be displayed.

## **NETWORK INFO [NWI]**

This menu item is used to view all information about the network and related settings of the Smart Amp 5.1.

The listed items have the following meanings:

- **IP Address [IP]:** The IP (internet protocol) address of the WiFi module assigned by the network-router.
- **MAC Address [MAC]:** The Media Access Control address is a unique, unchangeable identification number of the WiFi module.
- **Name [NAM]:** The (network)name of the Amp 5.1 that has been set during the installation process. The default name is set as Smart Amp 5.1.
- **SSID [SSI]:** The name of the connected WiFi network.
- **WiFi Band [BAN]:** The current frequency band of the WiFi module.
- **STS Wireless [WCH]:** The current frequency band of the wireless audio module.

To view the network information, do the following:

- 1** To enter the menu, press the **"M" button**.
- 2** Use the **"↑"** or **"↓"** **button** to navigate to the menu **System Info [INF]** and confirm with the **"OK" button**.
- 3** Select the menu item **Firmware Info [FWI]** and confirm with the **"OK" button**. All firmware versions will be displayed as a list in case you have a TV connected.
- 4** In case you do not have a TV connected to the Amp 5.1 you can select the specific firmware version by using the **"↑"** or **"↓"** **button** and press the **"OK" button** to confirm. The information about the firmware version will then be shown as scroll text in the display.  
To exit the selected info press the **"M" button**.
- 5** Repeat step 4 until you have all needed informations.
- 6** Exit the menu item by pressing the **"M" button**.

**Note:** • The IP address and frequency band of the WiFi module (WiFi band) can only be displayed after the Smart Amp 5.1 is connected to your network via WiFi or network cable. If the Amp 5.1 is connected via network cable, it is not possible to display the SSID.

# TROUBLESHOOTING

Please find attached an overview of the most common problems. If you have further questions, please contact your Canton dealer, contact our service hotline at Tel. + 49 (0) 6083 287-0 or send us an e-mail to: [info@canton.de](mailto:info@canton.de).

Problem	Possible cause	Solution
The Amp 5.1 does not respond to the remote control.	1. Protective film not removed.	1. Remove the protective film on the remote control.
	2. The battery is empty.	2. Replace the battery. Observe correct battery type and correct polarity when inserting the battery.
No sound.	1. Sound format of the source device selected is incorrectly.	1. Please check the setting of your source device.
	2. There is no signal from the player resp. the volume is set to "zero".	2. Unlock the digital output on the source device, increase the volume (please refer to the manual of the device).
	3. The cable is not connected correctly or defective.	3.1 Check the connection between the player and the Amp 5.1 and replace the cable if necessary.
		3.2 Make sure that the protective caps on the connectors of the optical cable (TOSLINK) are removed.
Sound reproduction too soft.	1. Volume of the Amp 5.1 or the source device (especially mobile devices) is set too low	1. Increase the volume, especially at (mobile) devices, with the "Volume" button.
	2. The max. possible volume was limited by the "Volume" function [VOL].	2. Increase the max. possible volume according to the instructions.
The Amp 5.1 does not turn on.	1. Mains cable not connected to power outlet and / or Amp 5.1	1. Make sure that the power cable is correctly connected to the Amp 5.1 and the power outlet and is fully plugged in.

Problem	Possible cause	Solution
The Amp 5.1 does not turn on automatically.	1. The standby function is factory set to Network [NSB]. The system must be turned on manually.	1. In order to automatically turn on, the standby function must be switched to Auto [AUT].
	2. The device has been switched off via the "ON / Standby" button of the remote control or the "Power" button of the TV remote control (when using the IR learning function).	2.1 Switch on the Amp 5.1 via the "ON / Standby" button of the remote control and wait until it automatically switches to the standby mode, next time. 2.2 Delete the "Power" button of your TV remote from the Amp 5.1 to prevent it from switching off together with your TV.
	3. The signal from the source at the analogue input [AUX] is too low.	3. Increase the output level (volume) on your analogue source device.
The Amp 5.1 switches off unintentionally.	1. The standby function was set to ECO, AUT or NSB.	1. Select the standby function Manual [MAN] if the Amp 5.1 is meant to stay on, even without an input signal.
	2. The infrared command for Standby has been learned incorrectly.	2. Learn the infrared command for On (turn on) resp. Standby (turn off) again.
The Amp 5.1 does not turn off automatically..	1. The standby function is set to Manual [MAN].	1. Activate the standby function ECO, AUT, or NSB.
	2. The standby function Auto [AUT] is activated and the source device also transmits a carrier signal in standby mode (optical or coaxial digital input, only).	2. Switch off the source device at its mains switch or disconnect it from the mains in any other way.

Problem	Possible cause	Solution
The speaker connected to the Amp 5.1 is buzzing.	1. The signal cable from the source device to the analogue input [AUX] of the Amp 5.1 is too long.	1. Use a shorter and/or higher quality (better shielded) signal cable.
	2. Used signal cable not shielded or the shield on the cable used is interrupted (defective).	2. Replace the cable with a shielded and/or higher quality cable.
	3. Ground loop (hum loop) "generated". A ground loop can occur if at least two interconnected devices with safety plugs (e.g. amplifier and computer) are connected to locally separated power outlets.	3. Connect all devices connected to the Amp 5.1 with a safety plug to a single power strip (multiple socket).
	4. You are operating a non-interference suppressed consumer (e.g. fridge) at the mains.	4.1 For testing purposes, turn off any possible sources of interference; have the relevant device suppressed for interference if the humming sound disappears, or initially connect the source of interference to another mains phase (L1, L2 or L3) (consult a specialist, if necessary). 4.2 Insert a special "sheath current filter" (available from specialist retailers) between the sound source and the Amp 5.1 to eliminate the humming. 4.3 Turn the power plug round to reduce the so-called hum voltage (particularly important if the source device is not earthed).
The Amp 5.1 unintentionally switches to the input [BT].	1. The function BT Select [BTS] is activated and your (mobile) device plays system sounds, such as typing on the keyboard.	1. Deactivate the function BT Select [BTS] and set it back on Manual [MAN].
		2. Disable all system sounds on your (mobile) device.
The Amp 5.1 unintentionally switches on.	1. This can happen when your (mobile) device is playing system sounds such as when typing on the keyboard, a digital source is turned on, or an analogue source is playing.	1. Change the standby function from Auto [AUT] to ECO, NSB or MAN.

Problem	Possible cause	Solution
The input [BT] cannot be selected via the "Input" buttons "↑" or "↓".	1. The function BT Select [BTS] is activated and the Amp 5.1 switches the source automatically as soon as a signal from your (mobile) device is received.	1. Deactivate the function BT Select [BTS] in order to select the input [BT] manually.
The Amp 5.1 does not automatically switch to the input [BT].	1. The function BT Select [BTS] is deactivated (Manual / [MAN]).	1. Activate the function BT Select [BTS].
	2. Bluetooth® is disabled on your (mobile) device.	2. Activate Bluetooth® technology on your (mobile) device.
	3. The Amp 5.1 is connected to another (mobile) device.	3. Disable Bluetooth® wireless technology on the other (mobile) device.
	4. The (mobile) device is not paired to the Amp 5.1.	4. Pair your (mobile) device with the Amp 5.1.
No playback or interrupted playback via Bluetooth® wireless technology	1. There is no connection between the Amp 5.1 and the (mobile) device.	1. Pair and connect your (mobile) device with the Amp 5.1 as described in this manual.
	2. The (mobile) device is paired, but it does not play.	2.1 The (mobile) device needs to be reconnected.
		2.2 Increase the volume at the (mobile) device (to the maximum possible value).
		2.3 Increase the volume of the Amp 5.1.
		2.4 Make sure that sources of interference, such as a WiFi Router or a laptop, are not placed in close proximity to the Amp 5.1.
		2.5 Simultaneous operation via WiFi and Bluetooth® connection from a (mobile) device is not possible without interference in some cases; therefore, disable WiFi on the (mobile) device.
	3. You are out of reach of the Amp 5.1. The maximal distance is approx. 10m.	3. Reduce the distance between the Amp 5.1 and the (mobile) device to below 10m.

Problem	Possible cause	Solution
Playback of a (mobile) device starts automatically when the Amp 5.1 is switched on.	1. The automatic playback function AutoPlay [APL] is activated.	1. If this function is unwanted, set AutoPlay [APL] to OFF.
Pairing of Smart (wireless) speakers or a Smart sub-woofer fails.	1. The slave speaker was not disconnected or was not disconnected from the mains long enough before pairing.	1. Disconnect the slave speaker to be paired for at least 30 seconds from the mains.
	2. The slave speaker was in standby mode during the pairing.	2. After turning on the power switch of the slave speaker resp. connecting it to the mains, power it up by the remote control.
	3. The slave was connected to the mains before the pairing process was initialised on the Amp 5.1 (master device).	3. Always start the pairing process at the Amp 5.1 before connecting the (slave) speaker to the mains.
	4. The distance between (slave) speaker and Amp 5.1 (master device) is too high.	4.1 Increase the transmission power [TXP] according to this manual. 4.2 Reduce the distance between Amp 5.1 and (slave) speaker. The maximum distance is approx. 10 m in the same room.
Two Smart (wireless) speakers play the same channel.	1. Two (slave) speakers were assigned to the same channel during the pairing process.	1. First use the test tone to check which (slave) speaker is playing the wrong channel. Reconnect this speaker as described in the chapter Speaker Config [SPC] / Speaker Mapping [SPM] and select the correct channel.
The Amp 5.1 does not change inputs automatically.	1. The source device on the coaxial resp. optical digital input has not been set to standby mode or the source device does not switch off its S/PDIF transmitter in standby mode.	1. In order to switch from the coaxial or optical digital input, the source device must be switched off at its mains switch resp. must be disconnected from the mains in any other way.
	2. The signal at the analogue input [AUX] is too low.	2. Increase the output level (volume) on your analogue source device.



Problem	Possible cause	Solution
The Amp 5.1 unintentionally changes the input.	1. This can happen if the function Input Select [SEL] is set to [AUT] and the currently selected analogue input [AUX] has a long break in the playback (>10 seconds) and a signal is present at another input or the source device is turned on at the optical and coaxial input.	1.1 Make sure that no signal is present at any other input during playback at the analogue input [AUX] or that a device is switched on at the optical and coaxial digital input. 1.2 Deactivate the function Input Select [SEL].
	2. This can happen when your (mobile) device plays system sounds, such as typing on the keyboard.	2.1 Disable these system sounds on your (mobile) device. 2.2 Deactivate the function Input Select [SEL] resp. BT Select [BTS].
Paired wireless speakers do not turn on together with the Amp 5.1.	1 The (slave) speakers are not paired to the Amp 5.1, till now.	1. Pair all slave speakers according to chapter Speaker Config [SPC] / Speaker Mapping [SPM].
	2. The parameter Standby [STB] is set to ECO [ECO].	2. If the parameter STB is set to [ECO], each speaker must be switched on separately with the remote control. If you want to switch all speakers on together, set the parameter to NSB, MAN or AUT.
An input cannot be selected via the Input buttons "↑" or "↓".	1. The input was deactivated in the Input Config [INP] menu (—).	1. Activate the input according to chapter Input Config [INP].
The volume is limited to a value less than 70.	1. In the Max Volume [VOL] menu, a maximum volume less than 70 was selected.	1. Increase the value according to chapter Max. Volume [VOL].

Problem	Possible cause	Solution
An input cannot be selected via the input buttons.	The input has been deactivated in the Input Config [INP] menu (—).	Activate the relating input according to chapter Input Config [INP].
A (slave)speaker shows [WLS] in the display.	1. The slave speaker is operated without the Amp 5.1.	1. Turn on the Amp 5.1.
	2. The (slave-) speaker is not paired anymore.	2. Pair the (slave-) speaker with the Amp 5.1 according to chapter Speaker Config [SPC] / Speaker Mapping [SPM].
The subwoofer does not reproduce sound.	1. The Smart subwoofer is not paired, till now.	1. Pair the Smart subwoofer with the Amp 5.1 according to chapter Speaker Config [SPC] / Speaker Mapping [SPM]
	2 The subwoofer is connected to the Amp 5.1 using a RCA cable, but Sub Out is set to Off (not activated).	2. Activate the output Sub Out at the Output Config [OPC].
No connection can be established between the network router and the Amp 5.1.	1. The DHCP server is deactivated in the router.	1. Activate the DHCP server of the network router according to the router's instructions.
	2. A filter for MAC addresses was created in the network router.	2. Deactivate the MAC Address Filter resp. add the adress of the Amp 5.1.
	3. Your router is not compatible with Chromecast built-in.	3. Routers that are demonstrably compatible can be found in the web link in the chapter "Using Chromecast built-in". However, there are more compatible routers.
Your WiFi network is not displayed during setup.	1. The network connection for the Amp 5.1 is set to Ethernet [ETH].	1. Change the setting to WiFi [WIF] in the menu Network Select [NWC].
The Smart Amp 5.1 is not indicated in the app on your (mobile) device.	1. Your (mobile) device and the Amp 5.1 must be conncted to the same network.	1. Connect your (mobile) device resp. the Amp 5.1 to the corresponding network (e.g. when using a guest network).

# TECHNICAL DATA

## Power supply

- Operating voltage 100 – 240V~
- Operating frequency 50 / 60Hz
- Power consumption ECO Standby 0,47 W
- Power consumption NSB Standby WLAN [WIF] ca. 1,94W (Factory setting)
- Power consumption NSB Standby LAN [ETH] ca. 6,8W
- Power consumption AUT Standby ca. 7,1W
- Power consumption MAN Standby ca. 4,5W
- Power consumption Idle (no output signal) ca. 10W
- Power consumption maximum ca. 400W

## Signal level

- SUB out = RCA, max. 2,0 V (effective)
- Analog Line [AUX] = RCA, max. 2,0 V (effective)
- Optical [CD] = Toslink, max. 96kHz/24Bit
- Coaxial [DVD] = RCA, max. 96kHz/24Bit

## Bluetooth® Technology

- Bluetooth® standard 4.1 (A2DP)
- Distance Up to 10m
- Max. transmission power 100mW (+20dBm)
- Frequency Range 2402–2480MHz (ISM band)
- Antenna Gain 4.2dBi

## WLAN

- Max. transmission power 100mW (+20dBm)
- Frequency range 2412–2472MHz (802.11b/g/n)  
5150–5350MHz and 5470–5725MHz (802.11a/n/ac)
- Antenna Gain 4.2dBi @ 2.4GHz, 4.5dBi @ 5GHz

## Wireless Audio

- Max. transmission power 100mW (+20dBm)
- Frequency Range 2402–2480 MHz (2412MHz, 2438MHz and 2464MHz)  
5180–5240 MHz (5180MHz, 5210MHz and 5240MHz)  
5736–5814 MHz (5736MHz, 5762MHz and 5814MHz)
- Antenna Gain 4.2dBi @ 2.4GHz, 4.5dBi @ 5GHz

## Load Impedance

- Speaker nominal: 4–16 Ω
- Minimum 3 Ω

## Dimensions

- W: 24,5 cm
- H: 12,0 cm
- D: 15,4 cm

## Weight

- 2,64 kg

## Decoder

- Dolby Atmos®
- DTS-HD®
- PCM (32kHz...96kHz, 8Bit...24Bit)

## Decoder

- Dolby® Surround

## Ambient temperature

- Minimum 5 °C (41 °F)
- Maximum 35 °C (95 °F)

# EU – Declaration of Conformity



We, the manufacturer / importer

**Canton Elektronik GmbH + Co. KG • Neugasse 21-23 • 61276 Weilrod • Germany**



confirm and declare in sole responsibility that the product

## **Smart Amp 5.1**

(Dolby Atmos® enabled Amplifier with several signal in- and outputs, RF Audio Transmitter, WiFi and Ethernet connections, Bluetooth® wireless technology, internal switch mode power supply and infrared remote control)

is in accordance with the Directives of the European Parliament and of the Council

**Directive 2014/53/EU (Radio Equipment)**

**Directive 2014/35/EU (Low Voltage Directive)**

**Directive 2011/65/EU (Restriction of the Use of Certain Hazardous Substances)**

**Directive 2012/19/EU (Waste of Electric and Electronic Equipment)**

**Directive 2009/125/EG (Ecodesign requirements for Energy-related Products)**

Operation is permitted in all countries of the European Union.

**A complete Declaration of Conformity can be found at: [www.canton.de/en/doc](http://www.canton.de/en/doc)**

Legally binding signature:.....

Date: June 1<sup>st</sup>, 2021    Name: Günther Seitz    Function: Managing Director

## **FURTHER IMPORTANT INFORMATION**

### **Information on the "Intended Use"**

The Smart Amp 5.1 is designed for indoor use and must not be used outdoors or in a wet environment. Do not make any conversions or modifications to the device. Connect the Smart Amp 5.1 as described in the instructions and observe the safety instructions. Only operate the device with the mains voltage and frequency specified on the rating plate.

### **Information about environmentally friendly operation**

To reduce the power consumption, switch the Smart Amp 5.1 to standby mode by pressing the "ON / Standby" button when not in use. This "saves power" and lowers your electricity bill.

### **Information about the firmware-versions**

This manual is based on the following firmware-versions:

- WiFi [WIF]: P14807
- Google Cast [GC]: 1.44.219548
- STS Wireless [STS]: 1.20
- MCU Host [MCU]: 4.073 / 2.073
- DSP Audio [DSP]: 2.27
- OSD Fonts [OSD]: 1.20

Because of new firmware-versions, increased functionalities but also differences in the display indications and/or in the controls may occur. In case please visit our homepage for the latest manual version.



### **Information about the CE marking**

Electrical and electronic devices placed on the market within the European Union must be given a CE mark to indicate that the equipment complies with the applicable requirements (e.g. electromagnetic compatibility or equipment safety).



### **Disposal instructions**

According to the EU Directive on Waste Electrical and Electronic Equipment, devices marked with this symbol must not be disposed of together with municipal waste (household waste). Please inform yourself, if necessary, contact your local disposal company or the municipal / city administration on disposal free of charge for you. It serves the environmental and health protection as well as the saving of (rare) raw materials by recycling.

Also Batteries must not be disposed of together with general household waste. They must be collected separately and returned to a battery collection point. Throw empty batteries into the collection container free of charge, for example, those situated at the trade. Improperly disposed of batteries can harm human and animal health and / or the environment.

## **DEU** GARANTIE

Über die gesetzlich vorgeschriebene Gewährleistung hinaus übernimmt Canton für alle Passivlautsprecher eine Garantie von 5 Jahren. Für die aktiven und teilaktiven Boxen sowie Verstärker werden 2 Jahre Garantie gewährt. Die Garantiezeit beginnt mit dem Kauf und gilt nur für den Erstkäufer. Ein Garantieanspruch besteht nur bei Verwendung der Originalverpackung. Ausgeschlossen sind Transportschäden und Schäden, die durch unsachgemäßen Gebrauch verursacht wurden. Der Anspruch verlängert sich nicht durch den Austausch von Bauteilen innerhalb der Garantiezeit. Dies gilt für alle Lautsprecher, die bei einem autorisierten Canton Fachhändler gekauft wurden. Wenden Sie sich im Schadensfall bitte an ihn oder direkt an den Canton Service.

## **ENG** WARRANTY

Above and beyond the legally prescribed warranty period Canton offers a guarantee of 5 years on all its passive loudspeakers. A 2-year guarantee is offered for active and semi-active boxes, and Amplifiers. The guarantee period begins at the time of purchase and only applies to the purchaser. Guarantee claims will only be accepted if accompanied by the original packaging. The guarantee does not cover damages incurred in transit or damages caused by improper use. The guarantee is not extended if parts are exchanged within the period covered by the guarantee. This applies to all loudspeakers purchased from an authorised Canton dealer. In the event of damage please contact your dealer or the Canton Service department direct.

Canton Elektronik GmbH + Co. KG  
Neugasse 21-23 · D-61276 Weilrod ·  
Deutschland/Germany  
Tel. +49 (0) 6083 287-0 · Fax +49 (0) 6083 287-50  
info@canton.de · www.canton.de

## LICENSE INFORMATION



Spotify Connect feature may not be used in countries where Spotify service is not available.  
The Spotify software is subject to third party licenses found here:  
<http://www.spotify.com/connect/third-party-licenses>



The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth® SIG, Inc. and any use of such marks by Canton is under license.  
Other trademarks and trade names are those of their respective owners.



Google, Google Home and Chromecast built-in are trademarks of Google LLC.



Apple, AirPlay, iPhone, iPad, iPod touch, HomePod, Apple TV, Mac, iTunes, Apple Music, Siri, macOS, and tvOS are trademarks of Apple Inc., registered in the U.S. and other countries. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

To control this AirPlay 2-enabled accessory, iOS 11.4 or later is required.



Dolby, Dolby Atmos, Dolby Audio, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories. Confidential unpublished works. Copyright © 2012–2020 Dolby Laboratories. All rights reserved.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, Digital Surround, and the DTS logo are registered trademarks or trademarks of DTS, Inc. in the United States and other countries.  
© 2020 DTS, Inc. ALL RIGHTS RESERVED



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.





Bei Fragen oder Anregungen wenden Sie sich bitte an unseren Kundenservice:  
For further questions, please do not hesitate to contact our Customer Service:

**Canton Elektronik GmbH + Co. KG**  
**Neugasse 21 – 23**  
**61276 Weilrod, Germany**

Tel. +49 (0)6083 287-87

[info@canton.de](mailto:info@canton.de)

[www.canton.de](http://www.canton.de)

Alle Angaben ohne Gewähr.

Technische Änderungen, Tippfehler und Irrtümer vorbehalten.

All Statements without guarantee.

Technical changes, typing errors and other errors reserved.