



Operation Manual

Compact Amplifiers with/without DSP

paseries





Operation Manual

Compact Amplifiers with/without DSP or DANTE Interface

Our new **PA SERIES** compact amplifiers are 2-channel power amplifiers in a 1/4-inch format with output power ranging from 30 to 200 watts per channel. The circuit design is engineered for very high sound quality and durability with minimal power consumption and low heat generation. In Auto On/Off mode, the amplifiers automatically switch to an energy-saving sleep mode when no signal is present.

The amplifiers feature remote ON/OFF contacts for remote switching and ground lift switches to prevent ground loops.

The PA-S 250 to PA-S 2200 models are available with and without DSP and deliver their rated output power into load impedances starting at 2 ohms. The analog inputs are available as RCA jacks and are also available in balanced configurations. Front-panel LEDs provide information about Standby/Power, Sleep, Signal, Limit, and Protect.

The PA-S 250 to PA-S 2200 models can be remotely controlled via VCAs. The DSP versions PA-S 250 DSC to PA-S 2200 DSC also feature an optical 2-channel SPDIF input or, optionally, a DANTE interface. They feature a 4 x 2 DSP matrix with numerous setting options and speaker presets for all LB loudspeaker models. They are configured using our browser-based **LB CONTROL app** and controlled using network commands.

The PA-S 250 PoE DANTE is designed for operation with a single network cable and is also equipped with a DSP. In addition to the power supply, the digital audio signal and network commands for controlling or monitoring the amplifier are transmitted via Ethernet.

We manufacture all devices in Munich and offer a 5-year warranty.



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Detailed technical information can be found in the product-specific data sheets and on our website:
<https://www.lb-lautsprecher.de/en/Amplifiers>

Important Safety Information

Please read the following information and these instructions carefully before installation and be sure to follow them!



Components inside the device may contain high voltages which, if touched, can result in life-threatening electric shocks.



CAUTION!

Service and repair work must only be carried out by qualified personnel. Do not open the case as there is a risk of electric shock. There are no controls or components inside the device that require you to open the case. If the case has to be opened by qualified personnel, make sure that the device is completely disconnected from the power supply.

**THIS UNIT MUST
BE EARTHED!**

The connection to the mains supply is made using the included power cable. A damaged connection cable may not be repaired. The device must be grounded! Never insulate the protective contact of the power plug.

The mains fuse is located inside the device. The mains fuse may only be replaced with a replacement fuse of the same value. Under no circumstances should you bypass the mains fuse or replace it with a higher value.

The operating voltage must match the local power supply.



The device should be shielded from moisture and wet conditions. It must not be operated in rain or close to water, baths, washbasins, sinks, swimming pools or in damp environments. Do not place any objects filled with water such as vases, glasses or bottles on the device.

Avoid direct sunlight and do not install it in the direct vicinity of radiators or other heat sources.

Upon sudden change of climatic conditions (e. g. transfer from a cold place to a warm room) water may condense inside the device, which may lead to malfunction or damage. Before switch-on wait until the amplifiers have reached room temperature.

Unplug the mains plug to protect the device during a thunderstorm or if it is going to be left unsupervised or unused for a longer period of time. This prevents the device being damaged by lightning strikes or voltage surges in the mains grid. Do not touch the case when the device is in use as it may heat up during operation. Make sure that the device is ventilated sufficiently.

Improper use will invalidate the warranty!

Disclaimer

LB is not liable for damage to speakers or other equipment caused by negligence or in cases where the product has been used for something other than its intended purpose. In particular, lb is not liable for lost earnings or other financial losses incurred by the purchaser. This limitation also applies to the personal liability of employees, representatives and agents.

These products meet the requirements of European Directive 2002/96/EC (WEEE) and 2002/95/EC (RoHS).

Performance Features

Models	Cinch Input	Sym. Input	SPDIF Input	DANTE Input	DSP	Control via Network-commands	Ext. ON/OFF	VCA Inputs	Output Power		
									2 Ohms	4 Ohms	8 Ohms
PA-S 230	•	-	-	-	-	-	•	-	-	2 x 30 W	2 x 30 W
PA-S 250	•	•	-	-	-	-	•	•	2 x 50 W	2 x 50 W	2 x 30 W
PA-S 2100	•	•	-	-	-	-	•	•	2 x 100 W	2 x 100 W	2 x 60 W
PA-S 2200	•	•	-	-	-	-	•	•	2 x 200 W	2 x 200 W	2 x 120 W
PA-S 250 DSC	•	•	•	-	•	•	•	•	2 x 50 W	2 x 50 W	2 x 30 W
PA-S 2100 DSC	•	•	•	-	•	•	•	•	2 x 100 W	2 x 100 W	2 x 60 W
PA-S 2200 DSC	•	•	•	-	•	•	•	•	2 x 200 W	2 x 200 W	2 x 120 W
PA-S 250 DSC DANTE	•	•	-	•	•	•	•	•	2 x 50 W	2 x 50 W	2 x 30 W
PA-S 2100 DSC DANTE	•	•	-	•	•	•	•	•	2 x 100 W	2 x 100 W	2 x 60 W
PA-S 2200 DSC DANTE	•	•	-	•	•	•	•	•	2 x 200 W	2 x 200 W	2 x 120 W
PA-S 250 PoE DANTE	•	•	-	•	•	•	•	-	-	2 x 50 W	2 x 30 W

without DSP

with DSP or DANTE



PA-S 230



PA-S 250 DSC
PA-S 2100 DSC
PA-S 2200 DSC



PA-S 250
PA-S 2100
PA-S 2200

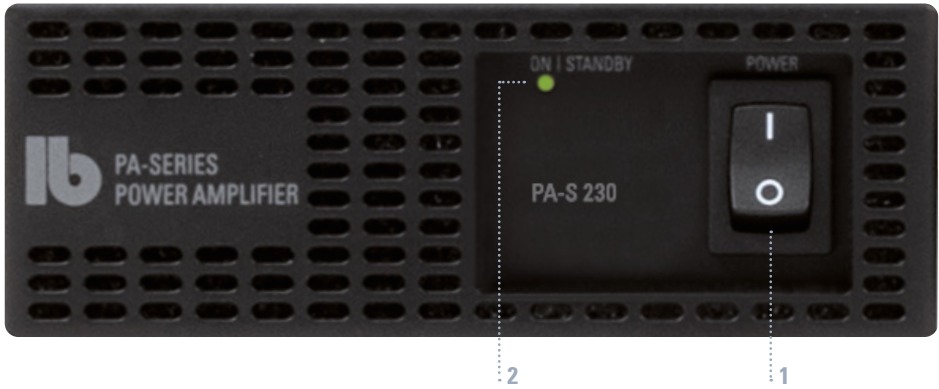


PA-S 250 DSC DANTE
PA-S 2100 DSC DANTE
PA-S 2200 DSC DANTE



PA-S 250 PoE DANTE

PA-S 230

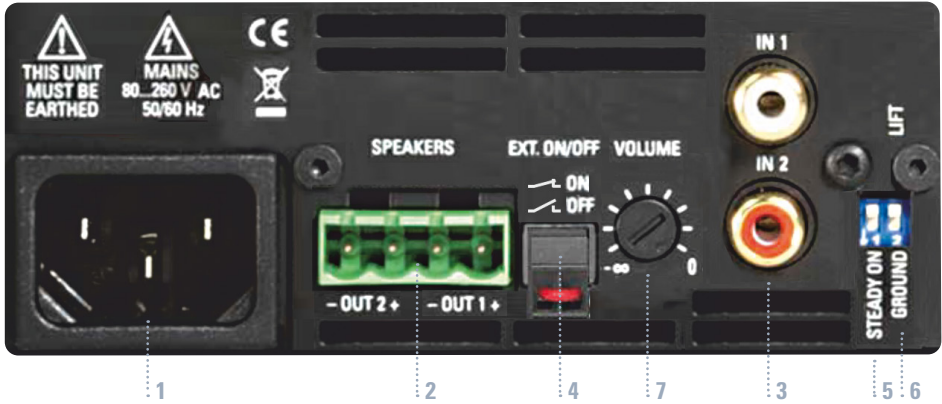


1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY, green when the amplifier is switched on and yellow in Sleep.



1 IEC Connector (Power cord is included)

2 Speaker outputs

Fix the speaker cables to the screw-type terminals.
The speaker impedance should not fall below 4 ohms.

3 Cinch Inputs

4 EXT. ON/OFF – N/C (short circuit plug).

The EXT. ON/OFF-contact must be closed to activate the amplifier. It may either be closed by a shorting bridge (delivery condition) or by an external potential-free switch or contact.

With this contact one or multiple amplifiers in parallel can be switched on and off via media control or voice alarm systems.

5 AUTO ON/STEADY ON – DIP switch

In the upper position the channel pair operates in AUTO-ON/OFF mode and switch into an idle state (SLEEP) automatically if the input signal is absent for over 10 min. This reduces power consumption significantly. In the lower position the channel pair is active permanently (STEADY ON).

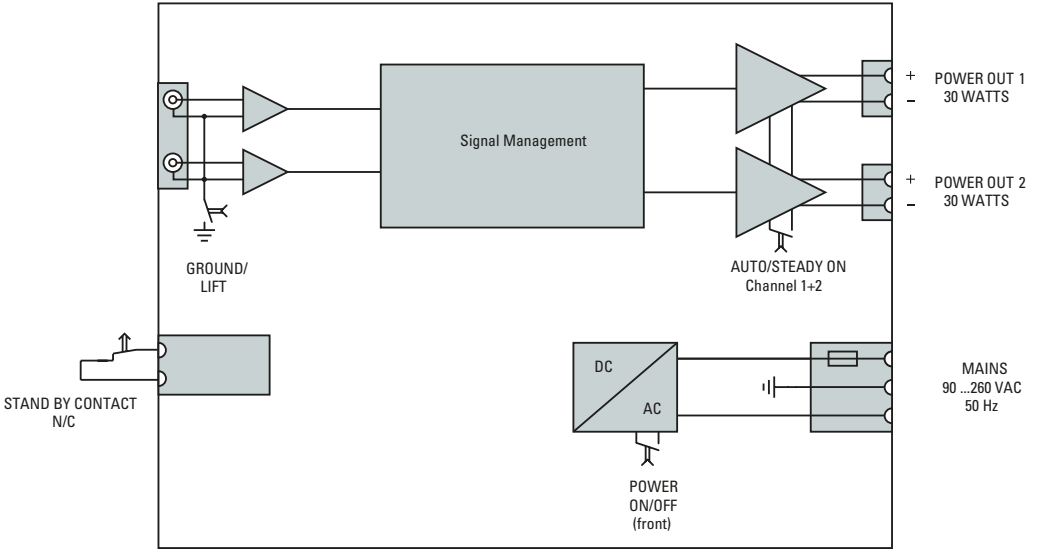
6 GROUND LIFT-Switch

In the GROUND position (down) audio ground is directly connected to the mains ground. If the signal source is also grounded this may cause humming noise. In this case the Input connector can be separated from mains ground (LIFT position)

7 VOLUME control

Block Diagram

PA-S 230



Technical Data

PA-S 230

Inputs.....	2 × Line In Cinch
Nom. input level	0 dBu
Max. input level	+ 20 dBu
Input impedance	20 kOhms
Load impedance	≥ 4 Ohms
Outputs	2 × Speaker Out bis 2 × 2,5 mm ² , (screwtype terminals, pluggable)

Output power

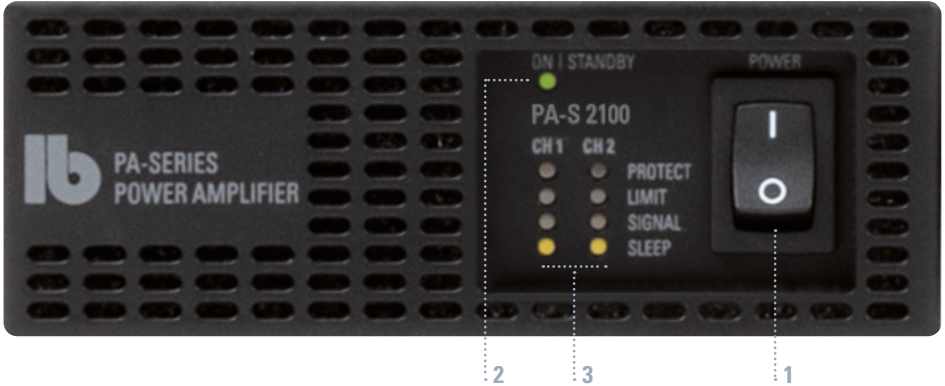
2 Ohms	-
4 Ohms	2 × 30 Watts
8 Ohms	2 × 30 Watts
Frequency range	15 Hz – 22 kHz
Dynamic range	> 95 dB
Display	LEDs for ON/STANDBY/SLEEP
Controls	Power switch at front. At back VOLUME control, DIP switches for AUTO ON/ STEADY ON
Additional connectors	ON/OFF contact N/C
Cooling	fanless
Protective circuits	Peak limiter, power limiter, short circuit and overtemperature protection
Power supply	90 up to 260 VAC
Main connector	IEC connector

Power consumption

Standby	< 0,5 Watts
All channels SLEEP	2,4 Watts
All channels active	4,1 Watts
1/8 Nominal power	12 Watts
Max. average consumption	25 Watts
Peak power	70 Watts
Dimensions (W × H × D)	¼ 19", 1 U, 110 × 42 × 233 mm
Weight	1,1 kg
Warranty	5 years

Front: Controls (Compact Amplifier without DSP)

PA-S 250 / PA-S 2100 / PA-S 2200



1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY and green when the amplifier is switched on.

3 LED displays

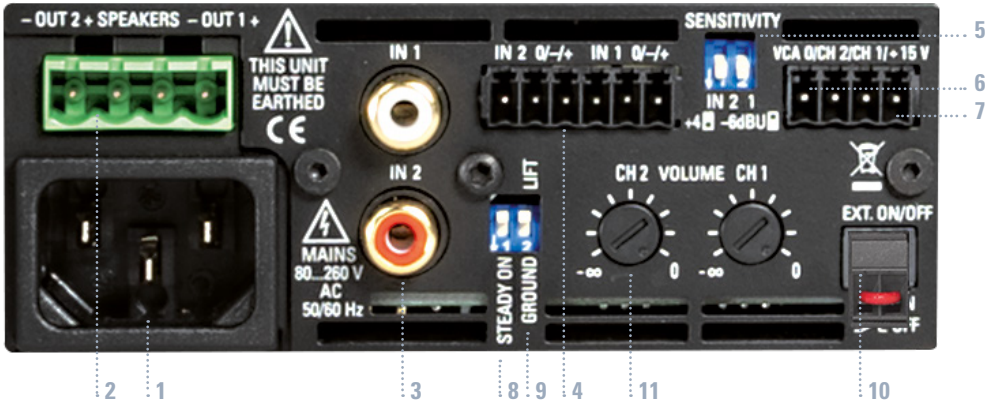
SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.

SIGNAL – there is a signal at the output of the corresponding power amplifier channel.

LIMIT – the corresponding output stage channel limits. (Peak Voltage, Peak Current, Peak Power or Average Power).

PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect.

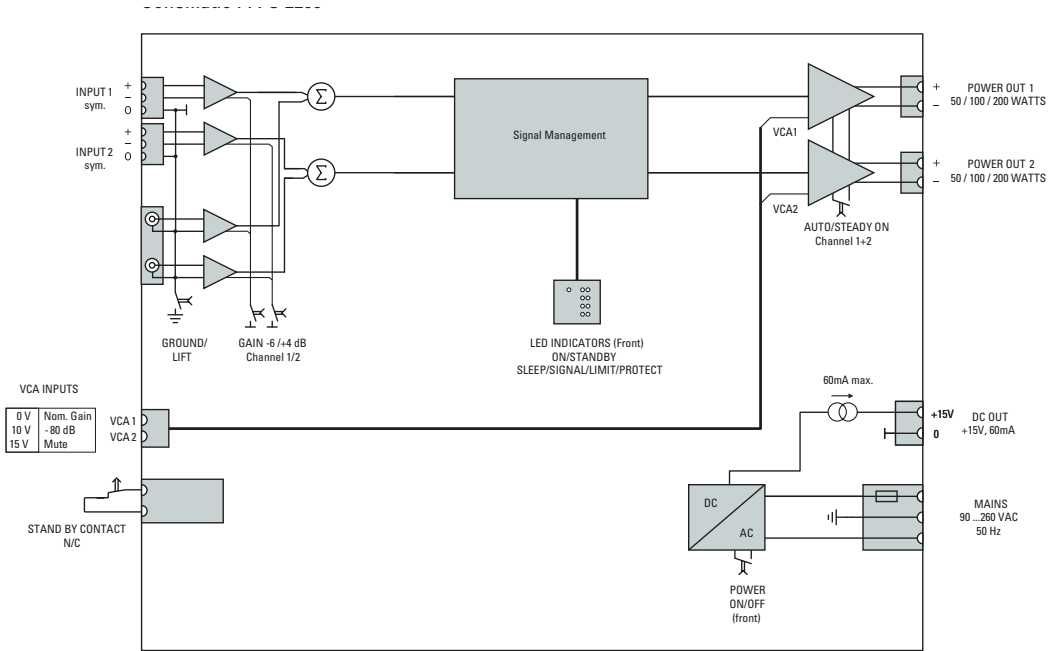
A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.



- 1 **IEC Connector** (Power cord is included)
- 2 **Speaker outputs**
Fix the speaker cables to the screw-type terminals. The speaker impedance should not fall below 2 ohms.
- 3 **Cinch Inputs**
- 4 **Symmetrical Inputs**
- 5 **SENSITIVITY** – DIP switch +4/-6 dB per channel.
In the lower switch position, the input sensitivity of the respective channel is switched from +4 dBU (pro level) to -6 dBU for home audio and PC applications.
- 6 **VCA-INPUTS** – (Voltage Controlled Amplifier) Inputs for external volume control via our WP-V and RP-V control panels, with the DV-Module (digital volume control) plus up/down contacts or with 0 – 10 V dimmer actuators (0 V = nom. Gain, 10 V = -80 dB) At 15 V the respective power amplifier channel is set to SLEEP.
- 7 **DC OUT 15 V**
Power supply for our volume controls WP-V and RP-V or the DV module (60 mA max.)
- 8 **AUTO ON/STEADY ON** – DIP switch
In the upper position the channel pair operates in AUTO-ON/ OFF mode and switch into an idle state (SLEEP) automatically if the input signal is absent for over 10 min. This reduces power consumption significantly. In the lower position the channel pair is active permanently (STEADY ON).
- 9 **GROUND LIFT-Switch**
In the GROUND position (down) audio ground is directly connected to the mains ground. If the signal source is also grounded this may cause humming noise. In this case the Input connector can be separated from mains ground (LIFT position)
- 10 **EXT. ON/OFF** – N/C (short circuit plug).
The EXT. ON/OFF-contact must be closed to activate the amplifier. It may either be closed by a shorting bridge (delivery condition) or by an external potential-free switch or contact.
With this contact one or multiple amplifiers in parallel can be switched on and off via media control or voice alarm systems.
- 11 **Volume control per channel**

Block Diagram

PA-S 250 / PA-S 2100 / PA-S 2200



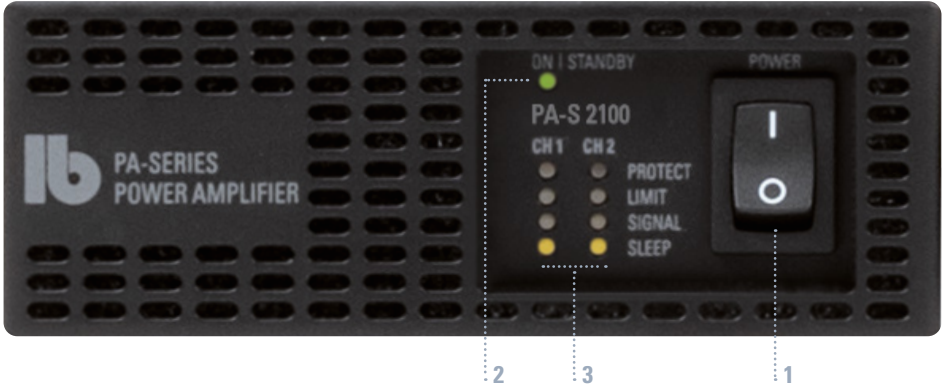
Technical Data

PA-S 250 / PA-S 2100 / PA-S 2200

Inputs.....	2 × Line In sym. + 2 × Line In Cinch
Nom. input level	+4/-6 dBu, switchable
Max. input level	+20 dBu
Input impedance	20 kOhms
Load impedance	≥ 2 Ohms
Outputs	2 × Speaker Out up to 2 × 2,5 mm ² , (screwtype terminals, pluggable)
Output power	PA-S 250 / PA-S 2100 / PA-S 2200
2 Ohms	2 × 50 / 100 / 200 Watts
4 Ohms	2 × 50 / 100 / 200 Watts
8 Ohms	2 × 30 / 60 / 120 Watts
Frequency range	15 Hz – 22 kHz
Dynamic range	> 100 dB
Display	LEDs for ON/STANDBY; LEDs per channel for PROTECT, LIMIT, SIGNAL, SLEEP
Controls	Power switch at front. At back VOLUME control per channel, DIP switches for AUTO ON/STEADY ON, GROUND/LIFT and SENSITIVITY +4/-6 dBu
Additional connectors	VCA inputs 0 -10 V for each channel (also for DV modules), ON/OFF contact N/C
Cooling	PA-S 250: fanless, PA-S 2100 / PA-S 2200: Regulated fan, Airflow from front to back
Protective circuits	Peak limiter, current limiter and power limiter for each speaker output, short circuit and multilevel overtemperature protection
Power supply	90 up to 260 VAC
Main connector	IEC connector
Power consumption	PA-S 250 / PA-S 2100 / PA-S 2200
Standby	< 0,5 Watts
All channels SLEEP	2,7 / 3,3 / 3,7 Watts
All channels active	4,4 / 7,4 / 8,4 Watts
1/8 Nominal power	20 / 38 / 75 Watts
Max. average consumption	42 / 80 / 152 Watts
Peak power	125 / 240 / 480 Watts
Dimensions (W × H × D)	¼ 19", 1 U, 110 × 42 × 233 mm
Weight	1,3 kg
Warranty	5 years

Front: Controls (Compact Amplifier with DSP)

PA-S 250 DSC / PA-S 2100 DSC / PA-S 2200 DSC



1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY and green when the amplifier is switched on.

3 LED displays

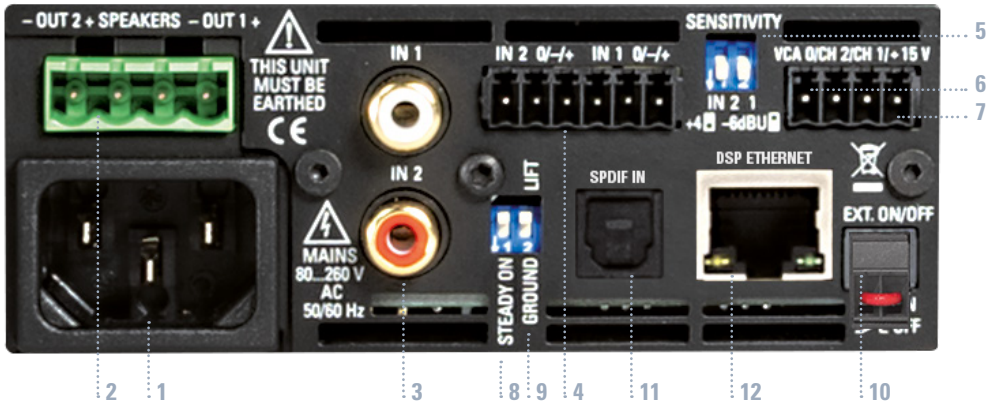
SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.

SIGNAL – there is a signal at the output of the corresponding power amplifier channel.

LIMIT – the corresponding output stage channel limits. (Peak Voltage, Peak Current, Peak Power or Average Power).

PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect.

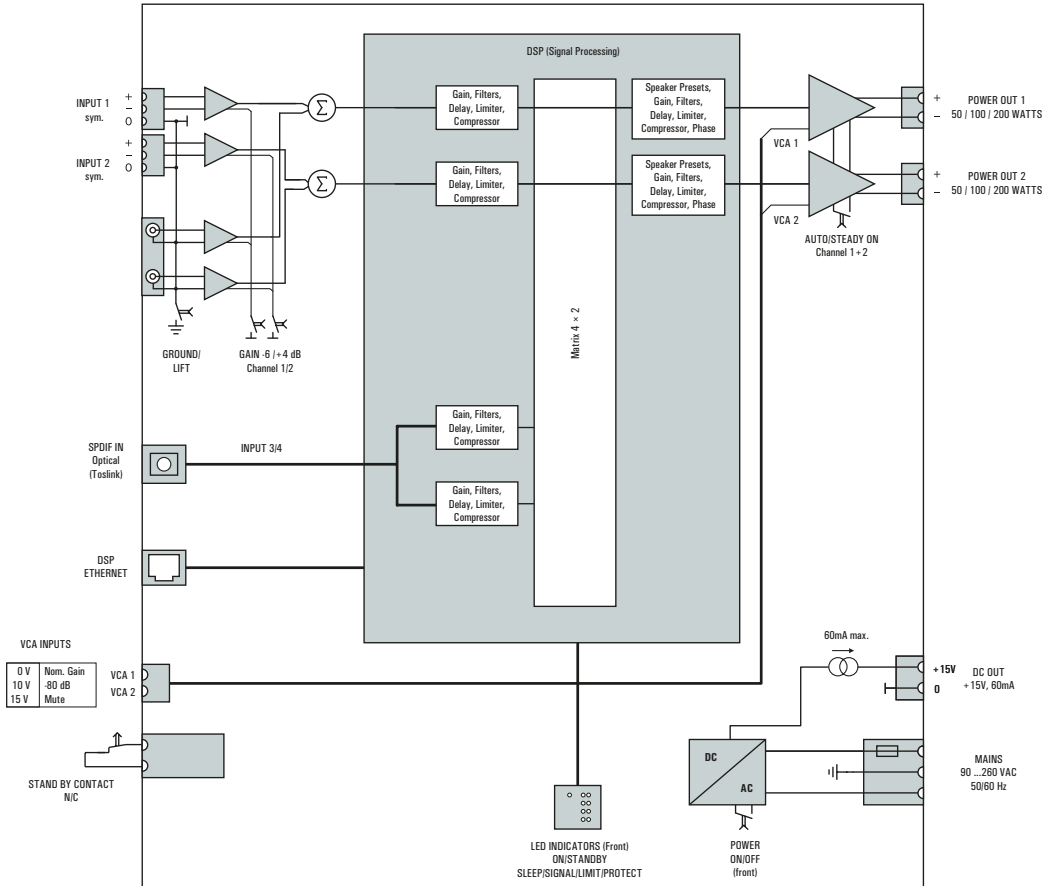
A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.



- 1 IEC Connector** (Power cord is included)
- 2 Speaker outputs**
Fix the speaker cables to the screw-type terminals.
The speaker impedance should not fall below 2 ohms
- 3 Cinch Inputs**
- 4 Symmetrical Inputs**
- 5 SENSITIVITY** – DIP switch +4/-6 dB per channel.
In the lower switch position, the input sensitivity of the respective channel is switched from +4 dBU (pro level) to -6 dBU for home audio and PC applications.
- 6 VCA-INPUTS** – (Voltage Controlled Amplifier) Inputs for external volume control via our WP-V and RP-V control panels, with the DV-Module (digital volume control) plus up/down contacts or with 0 – 10 V dimmer actuators (0 V = nom. Gain, 10 V = -80 dB) At 15 V the respective power amplifier channel is set to SLEEP.
- 7 DC OUT 15 V**
Power supply for our volume controls WP-V and RP-V or the DV module (60 mA max.)
- 8 AUTO ON/STEADY ON** – DIP switch
In the upper position the channel pair operates in AUTO-ON/ OFF mode and switch into an idle state (SLEEP) automatically if the input signal is absent for over 10 min. This reduces power consumption significantly.
In the lower position the channel pair is active permanently (STEADY ON).
- 9 GROUND LIFT-Switch**
In the GROUND position (down) audio ground is directly connected to the mains ground. If the signal source is also grounded this may cause humming noise. In this case the Input connector can be separated from mains ground (LIFT position)
- 10 EXT. ON/OFF** – N/C (short circuit plug).
The EXT. ON/OFF-contact must be closed to activate the amplifier. It may either be closed by a shorting bridge (delivery condition) or by an external potential-free switch or contact.
With this contact one or multiple amplifiers in parallel can be switched on and off via media control or voice alarm systems.
- 11 SPDIF IN**
Optical input (input channel 3/4)
- 12 DSP ETHERNET**
The amplifiers are configured via Ethernet using our browser-based **LB CONTROL app** and controlled using network commands, e.g., via media controllers.

Block Diagram

PA-S 250 DSC / PA-S 2100 DSC / PA-S 2200 DSC



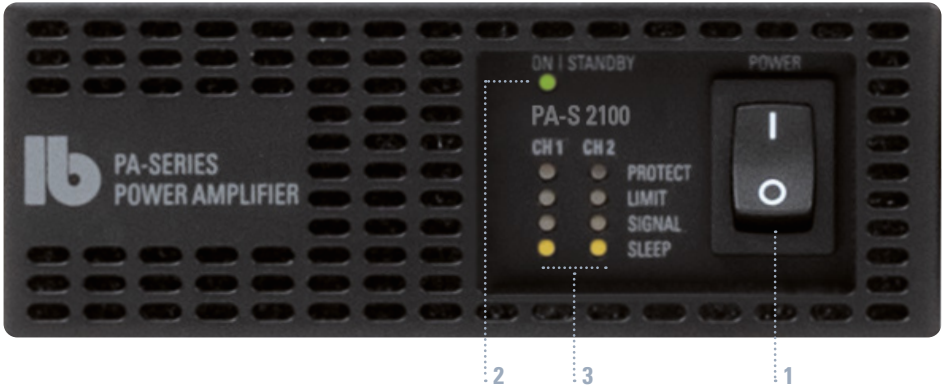
Technical Data

PA-S 250 DSC / PA-S 2100 DSC / PA-S 2200 DSC

Inputs analog / digital	2 × Line In sym. + 2 × Line In Cinch, optical 2-channel SPDIF-input
Nom. input level	+4/-6 dBu, switchable
Max. input level	+10 dBu
Input impedance	20 kOhms
Load impedance	≥ 2 Ohms
Outputs	2 × Speaker Out up to 2 × 2,5 mm ² , (screwtype terminals, pluggable)
Output power	PA-S 250 DSC / PA-S 2100 DSC / PA-S 2200 DSC
2 Ohms	2 × 50 / 100 / 200 Watts
4 Ohms	2 × 50 / 100 / 200 Watts
8 Ohms	2 × 30 / 60/ 120 Watts
Frequency range	15 Hz – 22 kHz
Dynamic range	> 100 dB
Display	LEDs for ON/STANDBY; LEDs per channel for PROTECT, LIMIT, SIGNAL, SLEEP
Controls	Power switch at front. At back DIP switches for AUTO ON/STEADY ON, GROUND LIFT and SENSITIVITY +4/-6 dBu per channel
DSP	24 Bit, 48 kHz
Latency	0,64 ms
Functions	4 × 2 mixer matrix, Lowpass, Highpass and 10 fully parametric filters per input/output: bell, high shelf, low shelf, high-pass, low-pass. Delay up to 400 ms, limiter and compressor per input/output, 40 presets
App	LB CONTROL Download Website: www.lb-lautsprecher.de/Download-Software
Remote control	Via network commands
Interface	Ethernet
Additional connectors	VCA inputs 0 -10 V for each channel (also for DV modules), ON/OFF contact N/C
Cooling	PA-S 250 DSC: fanless, PA-S 2100 DSC / PA-S 2200 DSC: Regulated fan, Airflow from front to back
Protective circuits	Peak limiter, current limiter and power limiter for each speaker output, short circuit and multilevel overtemperature protection
Power supply	90 up to 260 VAC
Main connector	IEC connector
Power consumption	PA-S 250 DSC / PA-S 2100 DSC / PA-S 2200 DSC
Standby	< 0,5 Watts
All channels SLEEP	5 / 5,6 / 7 Watts
All channels active	6,7 / 9,7 / 10,7 Watts
1/8 Nominal power	20 / 40 / 78 Watts
Max. average consumption	44 / 82/ 155 Watts
Peak power	127 / 242 / 482 Watts
Dimensions (W × H × D)	¼ 19", 1 U, 110 × 42 × 233 mm
Weight	1,3 kg
Warranty	5 years

Front: Controls (Compact Amplifier with DSP and DANTE interface)

PA-S 250 DSC DANTE / PA-S 2100 DSC DANTE / PA-S 2200 DSC DANTE



1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY and green when the amplifier is switched on.

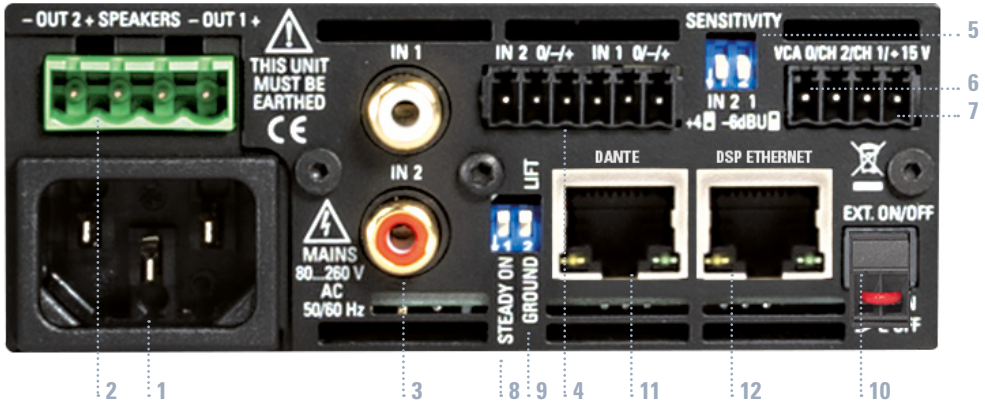
3 LED displays

SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.

SIGNAL – there is a signal at the output of the corresponding power amplifier channel.

LIMIT – the corresponding output stage channel limits. (Peak Voltage, Peak Current, Peak Power or Average Power)

PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect. A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.



1 IEC Connector (Power cord is included)

2 Speaker outputs

Fix the speaker cables to the screw-type terminals. The speaker impedance should not fall below 2 ohms.

3 Cinch Inputs

4 Symmetrical Inputs

5 SENSITIVITY – DIP switch +4/-6 dB per channel.

In the lower switch position, the input sensitivity of the respective channel is switched from +4 dBu (pro level) to -6 dBu for home audio and PC applications.

6 VCA-INPUTS – (Voltage Controlled Amplifier) Inputs for external volume control via our WP-V and RP-V control panels, with the DV-Module (digital volume control) plus up/down contacts or with 0 – 10 V dimmer actuators (0 V = nom. Gain, 10 V = -80 dB) At 15 V the respective power amplifier channel is set to SLEEP.

7 DC OUT 15 V

Power supply for our volume controls WP-V and RP-V or the DV module (60 mA max.)

8 AUTO ON/STEADY ON – DIP switch

In the upper position the channel pair operates in AU-TO-ON/ OFF mode and switch into an idle state (SLEEP) automatically if the input signal is absent for over 5 min. This reduces power consumption significantly. In the lower position the channel pair is active permanently (STEADY ON).

9 GROUND LIFT-Switch

In the GROUND position (down) audio ground is directly connected to the mains ground. If the signal source is also grounded this may cause humming noise. In this case the Input connector can be separated from mains ground (LIFT position)

10 EXT. ON/OFF – N/C (short circuit plug).

The EXT. ON/OFF-contact must be closed to activate the amplifier. It may either be closed by a shorting bridge (delivery condition) or by an external potential-free switch or contact. With this contact one or multiple amplifiers in parallel can be switched on and off via media control or voice alarm systems.

11 DANTE IN

DANTE-Interface for Audio over Ethernet (input channel 3/4).

With the routing software DANTE CONTROLLER

All devices with a DANTE interface that are integrated into the network can be routed.

Download on the Audinate website:

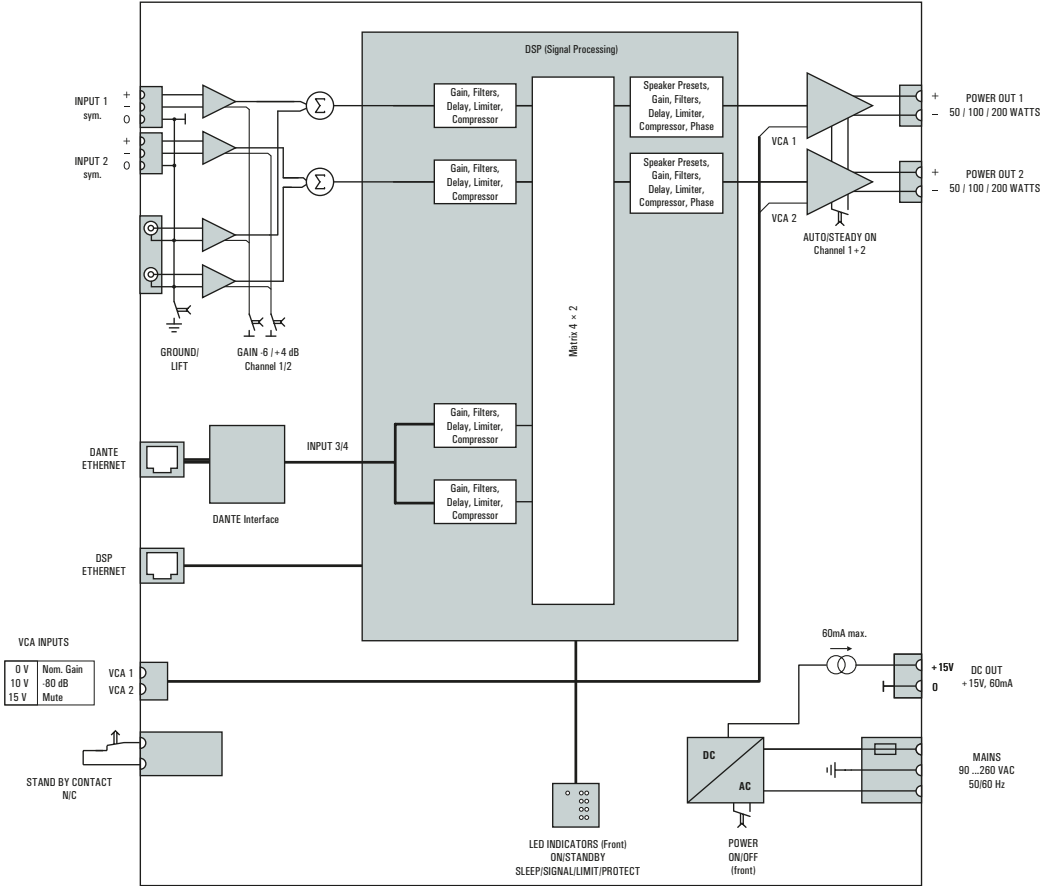
<https://www.audinate.com/support/dante-controller>

12 DSP ETHERNET

The amplifiers are configured via Ethernet using our browser-based **LB CONTROL app** and controlled using network commands, e.g., via media controllers.

Block Diagram

PA-S 250 DSC DANTE / PA-S 2100 DSC DANTE / PA-S 2200 DSC DANTE

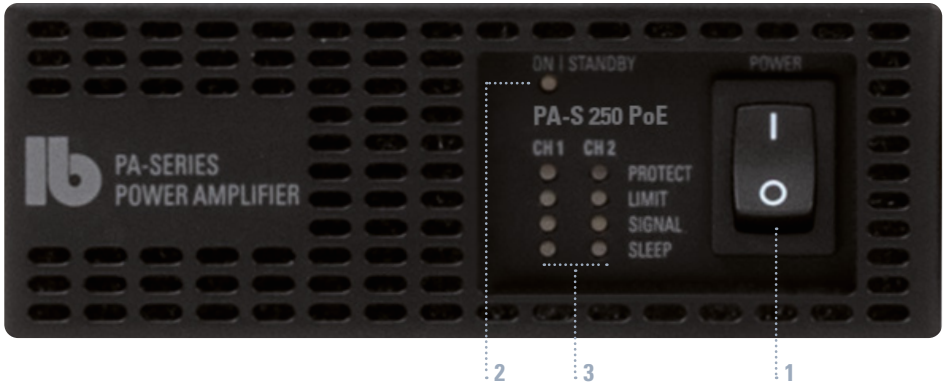


Technical Data

PA-S 250 DSC DANTE / PA-S 2100 DSC DANTE / PA-S 2200 DSC DANTE

Inputs analog / digital	2 × Line In sym. + 2 × Line In Cinch, 2-channel DANTE-interface
Nom. input level	+4/-6 dBu, switchable
Max. input level	+10 dBu
Input impedance	20 kOhms
Load impedance	≥ 2 Ohms
Outputs	2 × Speaker Out up to 2 × 2,5 mm ² , (screwtype terminals, pluggable)
Output power	PA-S 250 DSC DANTE / PA-S 2100 DSC DANTE / PA-S 2200 DSC DANTE
2 Ohms	2 × 50 / 100 / 200 Watts
4 Ohms	2 × 50 / 100 / 200 Watts
8 Ohms	2 × 30 / 60/ 120 Watts
Frequency range	15 Hz – 22 kHz
Dynamic range	> 100 dB
Display	LEDs for ON/STANDBY; LEDs per channel for PROTECT, LIMIT, SIGNAL, SLEEP
Controls	Power switch at front. At back DIP switches for AUTO ON/STEADY ON, GROUND LIFT and SENSITIVITY +4/-6 dBu per channel
DSP	24 Bit, 48 kHz
Latency	0,64 ms
Functions	4 × 2 mixer matrix, Lowpass, Highpass and 10 fully parametric filters per input/output: bell, high shelf, low shelf, high-pass, low-pass. Delay up to 400 ms, limiter and compressor per input/output, 40 presets
App	LB AUDIO CONTROL Download Website: www.lb-lautsprecher.de/Download-Software
Remote control	Via network commands
Interface	2 x Ethernet
Additional connectors	VCA inputs 0 -10 V for each channel (also for DV modules), ON/OFF contact N/C
Cooling	PA-S 250 DSC DANTE: fanless, PA-S 2100 DSC DANTE/ PA-S 2200 DSC DANTE: Regulated fan, airflow from front to back
Protective circuits	Peak limiter, current limiter and power limiter for each speaker output, short circuit and multilevel overtemperature protection
Power supply	90 up to 260 VAC
Main connector	IEC connector
Power consumption	PA-S 250 DSC DANTE / PA-S 2100 DSC DANTE / PA-S 2200 DSC DANTE
Standby	< 0,5 Watts
All channels SLEEP	6 / 6,6 / 8 Watts
All channels active	7,7 / 10,7 / 11,7 Watts
1/8 Nominal power	21 / 41 / 79 Watts
Max. average consumption	45 / 83 / 156 Watts
Peak power	128 / 243 / 483 Watts
Dimensions (W × H × D)	¼ 19", 1 U, 110 × 42 × 233 mm
Weight	1,3 kg
Warranty	5 years

PA-S 250 PoE DANTE



1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY and green when the amplifier is switched on.

3 LED displays

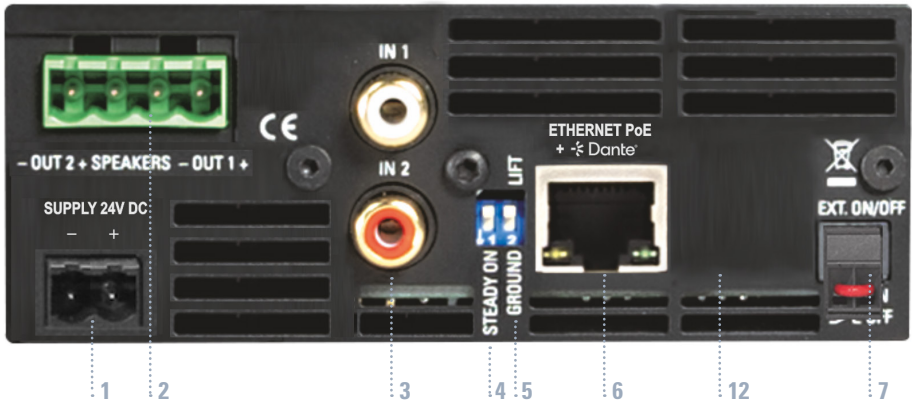
SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.

SIGNAL – there is a signal at the output of the corresponding power amplifier channel.

LIMIT – the corresponding output stage channel limits. (Peak Voltage, Peak Current, Peak Power or Average Power)

PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect. A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.

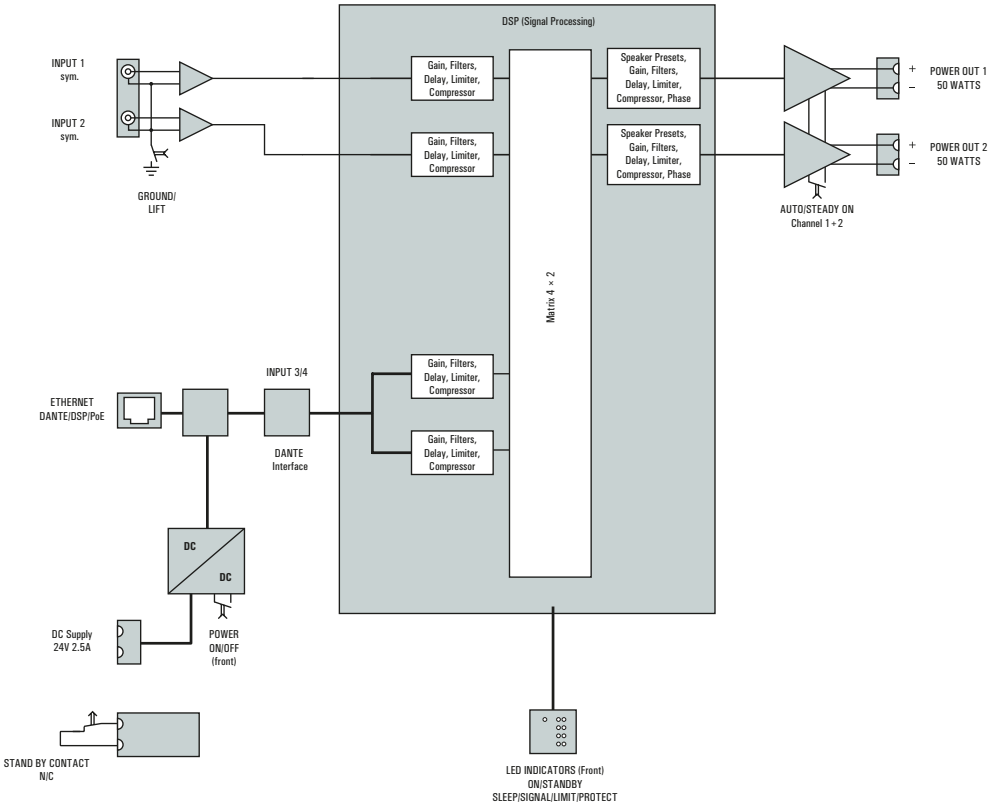
PA-S 250 PoE DANTE



- 1 24 V DC Supply**
Alternative power supply to PoE.
The PA-S 250 PoE can also be operated with an external 24 V power supply (60 VA min.)
- 2 Speaker Outputs**
The speaker outputs are equipped with plug-in system terminals for cable cross-sections up to 2 x 2.5 mm².
The speaker impedance should not be significantly below 4 ohms.
- 3 Cinch Inputs**
Analog Cinch input. The DANTE inputs and the analog inputs can be mixed in the DSP matrix.
- 4 AUTO ON/STEADY ON – DIP Switch**
In the upper switch position, the amplifier operates in AUTO ON/OFF mode and switches to SLEEP mode if no music signal is present at the input for more than 10 minutes (this significantly reduces power consumption).
In the lower switch position, the power amplifiers are permanently active (STEADY ON).
- 5 GROUND LIFT Switch**
In the GROUND position, the input ground is connected to the protective conductor. If a playback device is also grounded, a ground loop can occur. In this case, the ground of the input jacks can be separated from the protective conductor (LIFT position).
- 6 Ethernet**
Network connection for PoE power supply, DANTE Audio over Ethernet, and DSP control.
- 7 EXT. ON/OFF – N/C (shorting plug)**
The EXT. ON/OFF contact must be closed for the power amplifier to be active. This can be done using the factory-installed shorting plug or an external potential-free switch or contact. This allows one or more amplifiers to be switched on and off by a media control system or a voice alarm system (VAS).

Block Diagram

PA-S 250 PoE DANTE

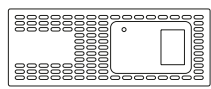
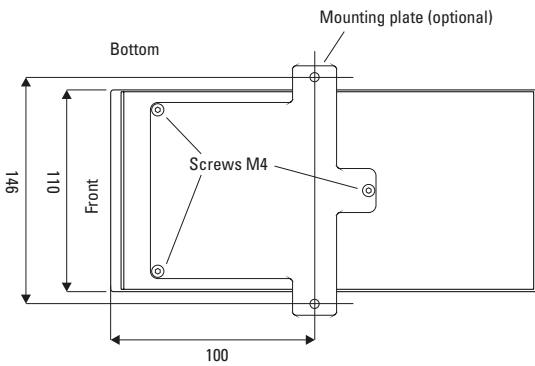
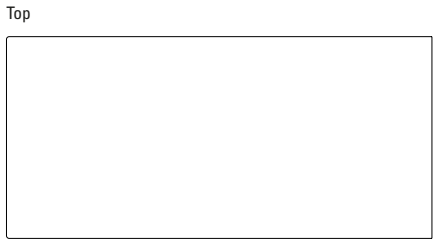
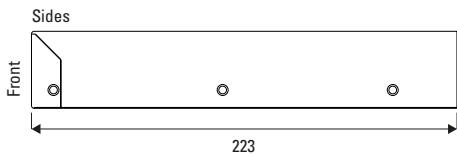
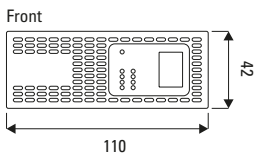


PA-S 250 PoE DANTE

Inputs analog / digital	2-Channel-DANTE-Interface + 2 × Line In Cinch
Nom. input level	Analog 0 dBu, digital 0 dBFS
Max. input level	+ 15 dBu
Input impedance	20 kOhms
Load impedance	≥ 4 Ohms
Outputs	2 × Speaker Out up to 2 × 2,5 mm ² , (screwtype terminals, pluggable)
Output power	PA-S 250 PoE DANTE
4 Ohms	2 × 50 Watt
8 Ohms	2 × 30 Watt
Frequency range	15 Hz – 22 kHz
THD	< 0,05 % (1 kHz, 3 dB below full power)
Dynamic range	> 100 dB
Display	LEDs for ON/STANDBY; LEDs per channel for PROTECT, LIMIT, SIGNAL, SLEEP
Controls	Power switch at front. At back DIP switches for AUTO ON/STEADY ON, GROUND LIFT
DSP	24 Bit, 48 kHz
Latency	0,64 ms
Functions	10 fully parametric filters in the input, high-pass, low-pass, compressor, limiter, delay, multiband limiter, 40 presets, auto on/off (sleep mode)
App	LB CONTROL Download: www.lb-lautsprecher.de/Download-Software
Max. Delay	600 ms
Remote control	Via network commands
Interface	Ethernet
Additional connectors	Cinch-Input, pluggable system terminals for DC supply, speakers, and ON/OFF switch contact
Cooling	Fanless
Protective circuits	Peak limiter, current limiter and power limiter for each speaker output, short circuit and multilevel overtemperature protection
Power supply	PoE 802.3bt (60 Watts) or PoE 3a (30 Watts), 24 V DC 60 VA
Power consumption	PA-S 250 PoE DANTE
Standby	0,5 Watts
All channels SLEEP	6,3 Watts
Idle	8 Watts
Max. average consumption	38 Watts
Peak power	60 Watts
Dimensions (W × H × D).....	¼ 19", 1 HE, 110 x 42 x 233 mm
Weight	1,1 kg
Warranty	5 years

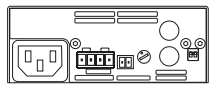
Dimensions

all Models

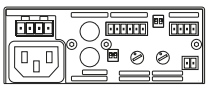


Front PA-S 230

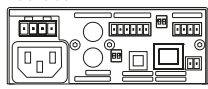
Backsides



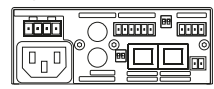
PA-S 230



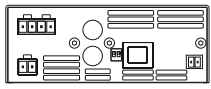
PA-S 250
PA-S 2100
PA-S 2200



PA-S 250 DSC
PA-S 2100 DSC
PA-S 2200 DSC



PA-S 250 DSC DANTE
PA-S 2100 DSC DANTE
PA-S 2200 DSC DANTE



PA-S 250 PoE

Accessories

MP-PA-S



Mounting plate for PA-S Series

PA-T 2050



100 V transformer module, 2 x 50 Watts, toroidal core

PA-T 100



100 V transformer module, 100 Watts, toroidal core

PA-T 200



100 V transformer module, 200 Watts, toroidal core

PA-T 1U



Rack cradle 19", 1 U for 4 x PA-S 230 - 2200,
4 x PA-T 2050, 4 x PA-T 100, 2 x PA-T 200

WP-V



Wall Panel (Volume control and ON/MUTE) and LED

RP-V



Rack Panel (Volume control and ON/MUTE) and LED

DV-Module



Digital volume control (UP/DOWN contacts)

RP-1U



19" Rack mount, 1U, for 6 x RP panels

LB CONTROL

Browser-based app for controlling and programming LB devices with digital signal processors (DSPs), (PA-DSC Series power amplifiers, PA-S DSC Series mini power amplifiers, DL-A DSC active display speakers, ZL-A DSC active line arrays)

Installation

You can find the LB CONTROL app on our website: <https://www.lb-lautsprecher.de/en/download-software>



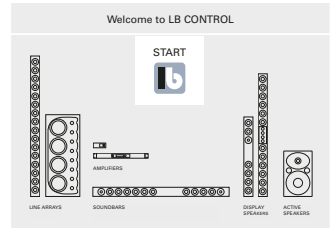
Software for our products from September 2022

LB CONTROL for Windows 64 Bit + Mac OS

Follow the steps during setup. If Windows wants to prevent the installation, click "install anyway"

Open the LB CONTROL App

After opening the app, the start window is displayed in the browser. The application starts with a click on the welcome screen. In order for the app to start, pop-ups must be allowed for this application.



OVERVIEW Window

When opening the LB AUDIO CONTROL app, the OVERVIEW window opens first. All LB devices present in the network are displayed here. In addition, virtual demo devices can also be inserted via the menu. Changes to the device name or the IP configuration must be confirmed using the save button.

Overview

Power	Device Name	Model	DHCP	IP Address	MAC Address	
<input type="checkbox"/>		Demo PA Series	<input checked="" type="checkbox"/>	0	0	<input checked="" type="checkbox"/> <input type="trash"/> <input type="refresh"/>
<input type="checkbox"/>		Demo ZL-A 100 AllArray	<input checked="" type="checkbox"/>	1	1	<input checked="" type="checkbox"/> <input type="trash"/> <input type="refresh"/>
<input checked="" type="checkbox"/>	FP Test v11	PA-S 250 DSC	<input checked="" type="checkbox"/>	192.168.0.219	44 8f d8 42 0 51	<input checked="" type="checkbox"/> <input type="trash"/> <input type="refresh"/>
<input type="checkbox"/>		Demo PA-S Series	<input checked="" type="checkbox"/>	2	2	<input checked="" type="checkbox"/> <input type="trash"/> <input type="refresh"/>

Zoom
 Menu

Assign device names
 Device type
 If necessary, fixed IP addresses can be assigned
 Save settings
 Open device
 Remove device
 Firmware Update

Menu in the OVERVIEW Window

LB CONTROL Overview

Power	Device Name	Model	DHCP	IP Address	MAC	Subnet Scan
<input type="checkbox"/>		Demo PA Series	<input checked="" type="checkbox"/>	0		Demo PA Series
<input type="checkbox"/>		Demo ZL-A 100 AllArray	<input checked="" type="checkbox"/>	1		Demo ZL-A 2.0 DSC
<input checked="" type="checkbox"/>	FP Test v11	PA-S 250 DSC	<input checked="" type="checkbox"/>	192.168.0.219	44 8f d8 42 0 51	Demo DLK.A 2.0 DSC AllArray
<input type="checkbox"/>		Demo PA-S Series	<input checked="" type="checkbox"/>	2		Demo DL.A 2.0 DSC
						Demo DL.A 2.0 DSC
						Demo DL.A 2.2 DSC
						Demo DL.A 150 AllArray
						Demo ZL.A 125 AllArray
						Demo DL.A 200 AllArray
						Demo DL.A 250 AllArray
						Demo SUB-40 FA
						Connect to IP Address
						About

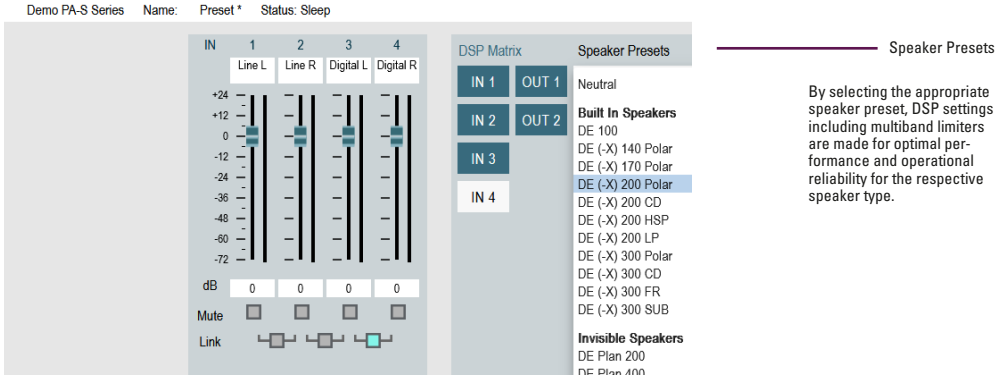
Insert new demo device

Connect to IP Address
 To address a device in a different subnet, you can enter the IP address directly.

Overview
 Power Device Name Model DHCP IP Address MAC Address
 Demo PA Series 0
 Demo ZL-A 100 AllArray 1
 FP Test v11 PA-S 250 DSC 192.168.0.219 44 8f d8 42 0 51
 Demo PA-S Series 2
 Connect to IP Address
 IP Address
 CANCEL CONNECT

DEVICE Window

The open device with all inputs and outputs is displayed in the DEVICE window. The input and output settings can be made here.

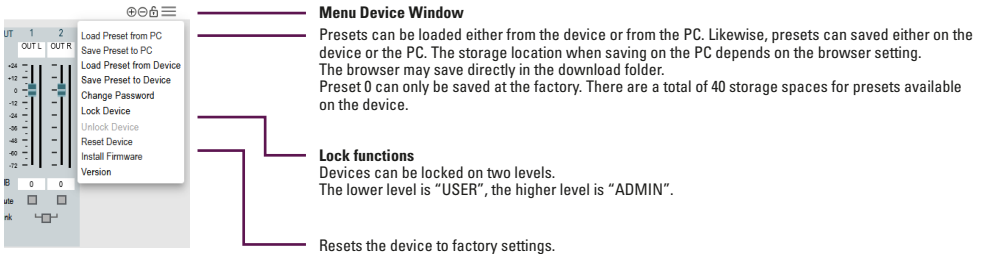


Link For linked channels the Settings for the left channel are transferred to the right one. The right channel is displayed white in the DSP matrix and cannot be edited separately.

DSP Matrix In the DSP matrix, the input and output channels can be opened and changed with a click. With Alt + click the respective channel will be opened in a new window. Open windows are displayed brightly.

Copy/Paste With the right mouse button the channel settings can be copied and pasted into another channel.

By selecting the appropriate speaker preset, DSP settings including multiband limiters are made for optimal performance and operational reliability for the respective speaker type.



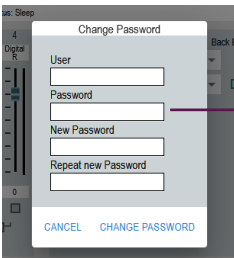
Menu Device Window Presets can be loaded either from the device or from the PC. Likewise, presets can be saved either on the device or the PC. The storage location when saving on the PC depends on the browser setting. The browser may save directly in the download folder. Preset 0 can only be saved at the factory. There are a total of 40 storage spaces for presets available on the device.

Lock functions Devices can be locked on two levels. The lower level is "USER", the higher level is "ADMIN".

Resets the device to factory settings.

LOCK Functions

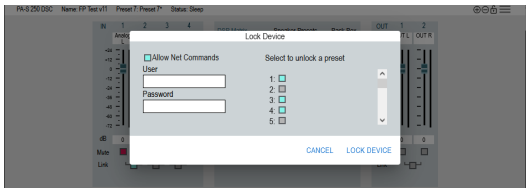
Change Password



Devices can be locked on two user levels. The lower user level is called "USER", the higher level "ADMIN".

Factory-fitted passwords are set as following: USER for "USER" level and ADMIN for the "ADMIN" level. Via Change Password you can assign own project-related passwords.

Lock Device



When locking a device (Lock), next to operating via the app, the network commands for the settings of the device are blocked as well.

With "Allow Net Commands" network commands remain still permitted.

CHANNEL Windows

The settings of the individual channels can be made in the CHANNEL windows.

Input Window

PA-S 250 DSC Name: FP Test v11 Channel: In 1 Analog L

Gain: +48, +36, +24, +12, 0, -12, -24, -36, -48, -60, -72, -84, -96, -108, -120, -132, -144, -156, -168, -180, -192, -204, -216, -228, -240, -252, -264, -276, -288, -300, -312, -324, -336, -348, -360, -372, -384, -396, -408, -420, -432, -444, -456, -468, -480, -492, -504, -516, -528, -540, -552, -564, -576, -588, -600, -612, -624, -636, -648, -660, -672, -684, -696, -708, -720, -732, -744, -756, -768, -780, -792, -804, -816, -828, -840, -852, -864, -876, -888, -900, -912, -924, -936, -948, -960, -972, -984, -996, -1008, -1020, -1032, -1044, -1056, -1068, -1080, -1092, -1104, -1116, -1128, -1140, -1152, -1164, -1176, -1188, -1200, -1212, -1224, -1236, -1248, -1260, -1272, -1284, -1296, -1308, -1320, -1332, -1344, -1356, -1368, -1380, -1392, -1404, -1416, -1428, -1440, -1452, -1464, -1476, -1488, -1500, -1512, -1524, -1536, -1548, -1560, -1572, -1584, -1596, -1608, -1620, -1632, -1644, -1656, -1668, -1680, -1692, -1704, -1716, -1728, -1740, -1752, -1764, -1776, -1788, -1800, -1812, 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LB CONTROL Network commands

SETTINGS

FUNCTION	URL	EXAMPLE URLS
MUTE	<DSC IP>/cmds/mute/<CH>/<i/o>	Mute output 2: http://192.168.0.100/cmds/mute/2/o
UNMUTE	<DSC IP>/cmds/unmute/<CH>/<i/o>	Unmute input 3: http://192.168.0.100/cmds/unmute/3/i
GAIN	<DSC IP>/cmds/gain/<CH>/<i/o>/<value>	Gain input 1 auf -4,8 dB: http://192.168.0.100/cmds/gain/1/i/-4.8
MIXER	<DSC IP>/cmds/mixer/<CH OUT>/o/<CH IN>/<value>	Input mixer output 1, input 3 + 4 to -30 dB: http://192.168.0.100/cmds/mixer/1/o/3/-30 http://192.168.0.100/cmds/mixer/1/o/4/-30
PRESET	<DSC IP>/cmds/preset/<num>	Select preset 10: http://192.168.0.100/cmds/preset/10
POWER	<DSC IP>/cmds/power/<on/off>	Switch device on/off http://192.168.0.100/cmds/power/on http://192.168.0.100/cmds/power/off
READ OUT	JSON FORMAT	
STATUS	<DSC IP>/status	Overall status (power, preset, gain, mute, mixer) http://192.168.0.100/status <pre>{ „power“: „sleep“, „preset“: 1, „channels“: [{ „channel“: 1, „type“: „i“, „gain“: -12.0, „muted“: true}, { „channel“: 2, „type“: „i“, „gain“: -12.0, „muted“: true}, { „channel“: 3, „type“: „i“, „gain“: -12.0, „muted“: false},</pre>
STATUS CH	<DSC IP>/status/<CH>/<i/o>	Channel status (gain, mute, output mixer) http://192.168.0.100/status/1/o <pre>{ „channel“: 1, „type“: „o“, „gain“: -3.0, „muted“: false, „mixer“: [0.0, -36.0, 0.0, -36.0]}</pre>
LEVELS	<DSC IP>/levels	Read out all levels and gain reductions (limit) http://192.168.0.100/levels <pre>{ „channels“: [{ „channel“: 1, „type“: „i“, „level“: 4.0, „limit“: -3.2 }, { „channel“: 2, „type“: „i“, „level“: 4.0, „limit“: -1.6 }, { „channel“: 3, „type“: „i“, „level“: -72.0, „limit“: -0.0 }, { „channel“: 4, „type“: „i“, „level“: -72.0, „limit“: -0.0 }, { „channel“: 2, „type“: „o“, „level“: -7.0, „limit“: -0.0 }}}</pre>
LEVELS CH	<DSC IP>/levels/<CH>/<i/o>	Channel read out level and gain reduction (limit) http://192.168.0.100/levels/2/i <pre>{ „channel“: 2, „type“: „i“, „level“: 4.0, „limit“: -1.6 }</pre>



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Photo: Nationalmuseum Munich / Multi-zone sound
system for gastronomy and events
6/2025. Changes and errors excepted.
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