

# POWER AMPLIFIER

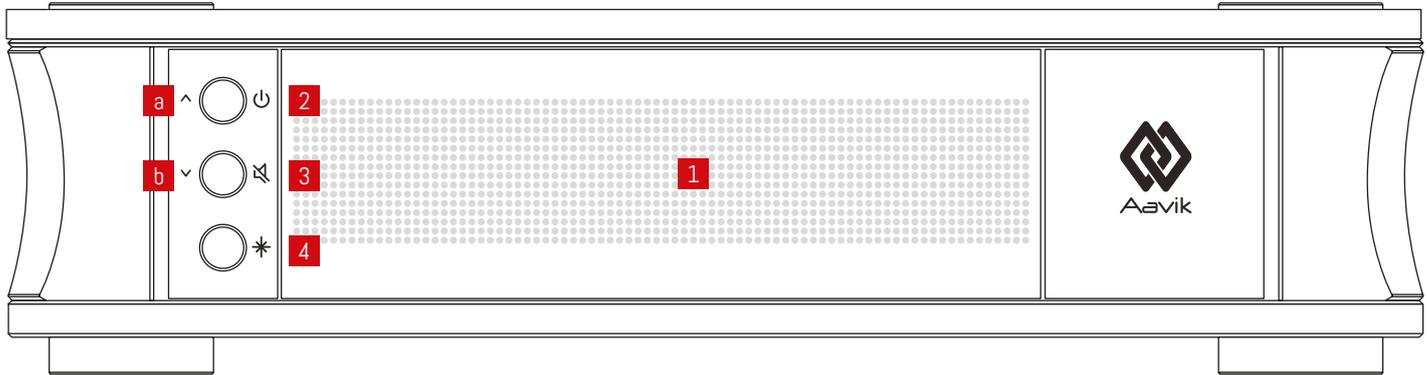
USER GUIDE: P-280 / P-580



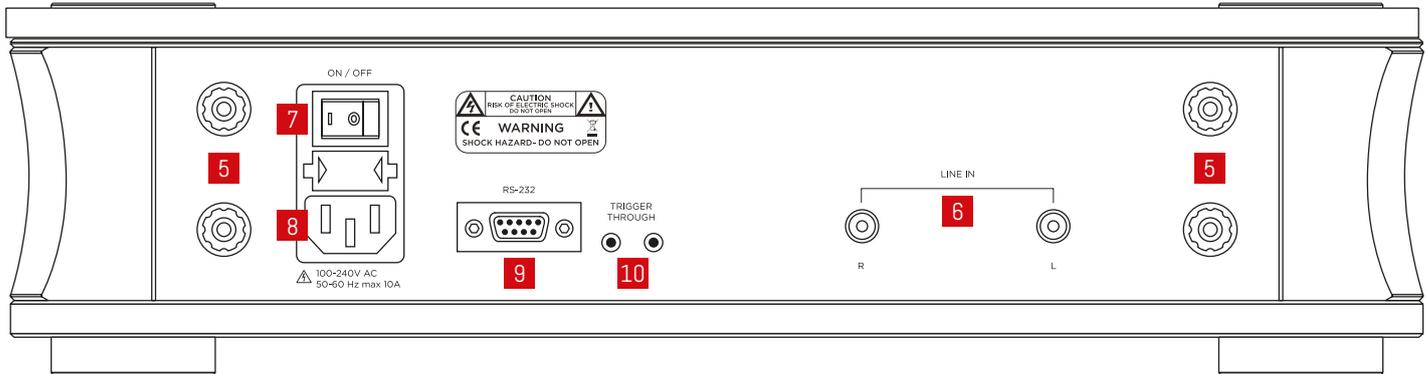
## THE EQUIPMENT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL

1. Read these instructions.
  2. Keep these instructions.
  3. Heed all warnings.
  4. Follow all instructions.
  5. Clean the amplifier only with a dry, lint-free cloth. For more thorough cleaning, unplug the amplifier from the mains supply and go over it lightly with a damp, lint-free cloth. Do not use any type of chemical solvents or other cleaning products for cleaning.
  6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  8. Unplug this apparatus during lightning storms or when unused for long periods of time.
  9. Do not defeat the safety purpose of the polarized or grounding-type plug.
  10. Only place apparatus horizontally and on a suitable table or rack. If more components are stacked. Make sure to place the hottest unit - usually the amplifier, at the top
  11. Refer all servicing to qualified service personnel.
  12. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
1. **WARNING** – Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. The equipment shall not be exposed to dripping or splashing. Liquid-filled objects such as vases should not be placed on the equipment.
  2. The equipment has been designed for use in moderate climates and in domestic situations.
  3. Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment. The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.
  4. If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

## BUTTONS ON THE FRONT OF THE AMPLIFIER



## CONNECTORS ON THE BACK OF THE AMPLIFIER



**CAUTION:** To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

## FRONT PANEL FUNCTIONS

### 1 DISPLAY

During normal operation, the display shows "Aavik".

When changing settings (see "MENU FUNCTIONS" page 6), the display will show the setting being changed.

### 2 STANDBY BUTTON

Press the standby button **2** to place the amplifier in standby mode, or to switch on the amplifier from standby mode. When the amplifier is in standby mode, the only light showing on the amplifier will be a dim LED light in the lower left corner. When you switch on the amplifier, the outputs will be muted, and a line will illuminate at the bottom of the displays, starting in the lower left corner.

During the start-up cycle, the circuits of the amp will stabilize. When using trigger cables between the power amp and a preamp, the power amp will be switched on and off together with the preamp.

**Note:** When using the power amp without a trigger cable, remember to switch on the preamp before switching on the power amp, and switch off the power amp before switching off the preamp.

### 3 MUTE

When you press the mute button briefly, it will mute the speaker outputs of the amplifier. The display will show "Mute" instead of the the standard "Aavik".

### 4 MENU BUTTON

The menu button is used for accessing the menu. See "MENU FUNCTIONS" page 6.

## FACTORY RESET

You can reset all settings back to factory defaults. This will erase gain settings and display settings. To do this, proceed as follows:

1. Switch off the amplifier at the main power switch **7**
2. Wait 30 seconds
3. Press and hold the three front panel buttons **2**, **3**, and **4**
4. Switch on the main power using **7**, while still holding the front panel buttons
5. All LED indicators on the front panel will switch on and stay on
6. After approximately 8 seconds the LED indicators will switch off again
7. Release the front panel buttons, and switch off the amplifier using the main power switch **7**

## REAR PANEL FEATURES

### 5 SPEAKER TERMINALS

The amplifier accepts speaker cables terminated with spade connectors and 4 mm banana plugs.

To connect speaker wires terminated with spades, loosen the isolation knob and insert the spade between the isolator and terminal. Tighten the isolation knob to secure the spade.



To connect speaker wires terminated with banana plugs, insert the banana plug into the center hole of the terminal.

### 6 LINE INPUTS

The amplifier is equipped with a set of single-ended, RCA line inputs.

The gain of the amp can be changed to equalize the volume in a system with multiple power amps. The range is between 24 and 34dB in 1dB steps.

The default gain is 32dB. Please see "MENU FUNCTIONS" for guidance.

### 7 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and standby mode. When the amplifier is in standby mode, the power consumption is less than 1W. When the amplifier is on and idling, the power consumption is less than 65W.

### 8 POWER INLET (CAUTION!)

The amplifier accepts mains voltages from 100 to 240VAC 50-60Hz.

The power inlet accepts power cables with an IEC 60320-C13 female connector.

To ensure the best performance, please consult your Aavik Acoustics dealer for a suitable mains cable.

### 9 RS-232, FIRMWARE UPDATE

Only for the use by qualified service personnel.

### 10 TRIGGER OUTPUTS

The amplifier is equipped with two DC trigger connectors. These can be used to power-on the amp when the preamp is switched on. Connect one of the connectors to the preamp. The second connector can be used to switch on a further piece of equipment. The amp will switch on when 5-15VDC is applied to a trigger input.



**WARNING:** To reduce the risk of fire or electric shock, do not expose the amplifier to rain or moisture.

The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

## MENU FUNCTIONS

To enter the menu, press and hold the navigation button **4** for 3 seconds.

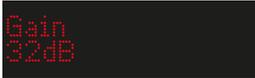
When entering the menu, the gain setting will be shown on the display.

The top line of the display shows the current option ("Gain" when entering the menu), and the bottom line shows the current setting.

Press the navigation button **4** to cycle through the options.

Use the up and down front panel buttons (**a** / **b**) to change the settings.

Once in the menu you can cycle through the options in the order shown in the diagram below. The amplifier will return to normal operation once cycled through all the options.

SETTINGS	DISPLAY SHOWS
<p>Gain Using this function, you can set the gain of the amplifier. The default setting is 32dB.</p>	
<p>Display brightness You can change the display brightness in four steps: 10, 40, 70 and 100%</p>	
<p>Display dim Using this setting, you can set the display to switch off automatically after 1-5 seconds. The standard setting is "dim off". When the display is off, a single dim LED will be lit in the lower right corner.</p>	
<p>Temperature This menu option shows the current operating temperature of the power amp.</p>	
<p>Software version This menu option shows the current firmware version of the amplifier.</p>	

## SPECIFICATIONS

	Avik P-280	Avik P-580
Line:	Gain 24-34dB Input impedance 10K ohm Input sensitivity (32dB gain) 1.23Vrms	Gain 24-34dB Input impedance 10K ohm Input sensitivity (32dB gain) 1.23Vrms
Output:	2 x 300W 8 ohm, 2 x 600W 4 ohm Distortion (THD+N): <0,006% (1-100W, 1kHz, 8 ohm) IMD: <0,002% (1-100W, 4 ohm) TIM: <0,008% (1-100W, 4 ohm)	2 x 300W 8 ohm, 2 x 600W 4 ohm Distortion (THD+N): <0,006% (1-100W, 1kHz, 8 ohm) IMD: <0,002% (1-100W, 4 ohm) TIM: <0,008% (1-100W, 4 ohm)
Avik noise reduction:	Active Tesla Coils: 72 Active Square Tesla Coils: 168 Dither circuitry: 10 Anti Areal Resonance Coils: 4	Active Tesla Coils: 108 Active Square Tesla Coils: 240 Dither circuitry: 13 Anti Areal Resonance Coils: 4
Power consumption:	Standby: <0.5W Idle: <50W	Standby: <0.5W Idle: <50W
Dimensions:	102 x 384 x 400mm	102 x 384 x 400mm
Weight:	9,0 kg	10,7 kg







Aavik Acoustics  
Rebslagervej 4  
9000 Aalborg  
Denmark

[aavik-acoustics.com](http://aavik-acoustics.com)

