

PRE AMPLIFIER

USER GUIDE: C-280 / C-580



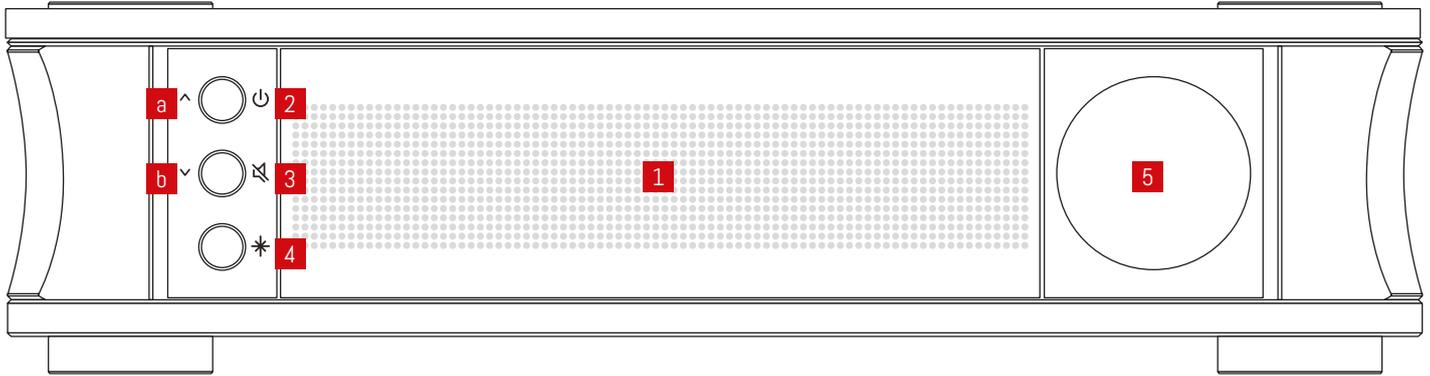
Aavik



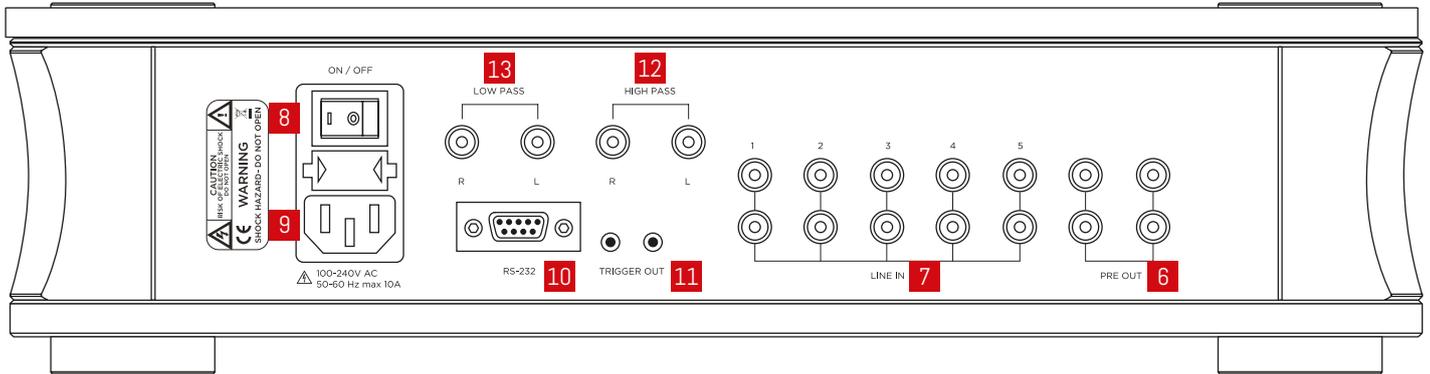
THE EQUIPMENT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL

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 left side of the display shows the selected source, and the right side shows the volume setting.

It is possible to change the source with the rotating knob **5** and/or the up/down buttons **a** / **b** when navigation mode is activated. When changing settings (see "MENU FUNCTIONS" page 7), the display will show the setting being changed.

2 STANDBY

Press the standby button **2** to place the preamp in standby mode, or to switch on the preamp from standby mode. When the preamp is in standby mode, the only light showing on the front will be a dim LED light in the lower left corner. When you switch on the preamp, 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, and the power amp(s) connected to the pre outs will have some time to stabilize. When using trigger cables between the preamp and power amp(s), the power amp(s) will be switched on and off together with the preamp.

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

3 MUTE / REMOTE CONTROL PAIRING BUTTON

The mute button has multiple functions. When you press this button briefly, it will mute the outputs of the amplifier. The display will show "Mute" instead of the volume setting.

If you are using an Apple remote, you can pair the amplifier with one specific remote. In order to pair your remote control with the amplifier, press and hold the front panel mute button **3** for more than one second. When the amplifier is ready to pair, the display will flash slowly. To pair, press a button on your remote control facing it toward the amplifier. The display will show "Paired". Press the front panel mute button **3** again briefly to go back to normal operation.

You can remove the pairing, so that the amp will stop responding to the remote again, by pressing the front panel mute button for more than five seconds. When the five seconds have passed, the displays will flash fast. Press a button on the remote, to complete the procedure. The display will show "Unpaired". Press the front panel mute button **3** again briefly to go back to normal operation.

Note: Settings, including remote control pairing, are stored when your Aavik device is switched to standby. So remember to switch your device to standby, before removing power.

4 NAVIGATION/MENU BUTTON

The navigation button lets you select the desired source. Pressing the navigation button **4** briefly will activate input selection. The display will flash, while still showing the selected input. Turning the volume control knob **5** either clockwise or counter-clockwise, or pressing the up/down buttons **a** / **b** lets you select the desired source. Press the navigation button again to deactivate input selection mode.

The navigation button is also used for accessing the menu. See "MENU FUNCTIONS" page 7.

5 VOLUME CONTROL (ROTATING KNOB)

Use the rotating knob **5** to change the volume, source or other settings.

REAR PANEL FEATURES

6 PRE OUT

The preamp is equipped with two sets of pre out (preamplifier output) connections. They can be used for power amplifiers, active sub-woofers or headphone amplifiers.

7 LINE INPUTS

The preamp is equipped with five single-ended, RCA line inputs. The gain of the line inputs can be changed to equalize the volume of different signal sources. The range is between 5 and 15 dB for input 1-4, and between 1 and 11 dB for input 5. The default gain for all inputs is 9dB. Please see "MENU FUNCTIONS" for guidance.

8 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and standby mode. When the preamp is in standby mode, the power consumption is less than 1W. When the preamp is on, the power consumption is less than 12W.

9 POWER INLET (CAUTION!)

The preamp 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.

10 RS-232, FIRMWARE UPDATE

Only for the use by qualified service personnel.

11 TRIGGER OUTPUTS

The preamp is equipped with two DC trigger outputs. These can be used to power-on power amps, sub-woofers and other equipment together with the preamp. When the preamp is switched on (not in standby mode), the trigger outputs will supply 12VDC. They can supply up to 80mA total.

ACTIVE CROSSOVER MODULE

Your preamp can be fitted with the optional active crossover module. If this is fitted, there are two additional sets of line outputs. This module can be used for driving the bass section of a speaker with a separate amplifier, or for use with subwoofers.

You can use the high pass and low pass outputs together with the regular outputs, so you can supply the main speakers with the full frequency range, and only supply the low frequency part of the audio to the subwoofer for instance. The crossover frequency can be set (independently for the high- and low pass sections) between 60 and 160Hz.

12 HIGH PASS OUTPUTS (OPTIONAL)

This set of outputs can be used, if you have a separate power amp for the midrange/treble range.

13 LOW PASS OUTPUTS (OPTIONAL)

This set of outputs can be used, if you have a separate power amp for the bass range, or for driving an active subwoofer.

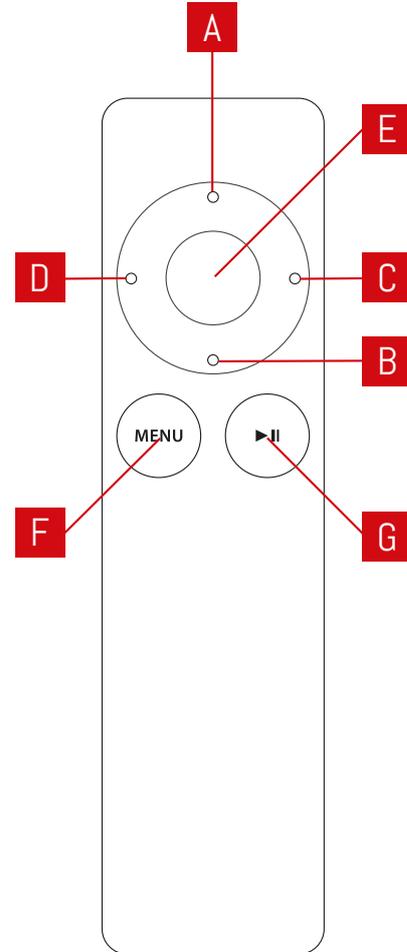


WARNING: To reduce the risk of fire or electric shock, do not expose the amplifier to rain or moisture.

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.

REMOTE

- A** VOLUME UP, Press this button to increase the volume setting.
- B** VOLUME DOWN, Press this button to decrease the volume setting.
- C** INPUT +, Press this button, to move to the next input. From Line 1 to Line 2 etc.
- D** INPUT -, Press this button, to move to the previous input. From Line 2 to Line 1 etc.
- E** STANDBY, Press this button to place the preamp in standby mode, or to switch the preamp on from standby mode.
- F** MENU, Use this button to enter the menu, or switch back to normal operation. Use the INPUT + and INPUT - buttons to cycle through the menu, and the VOLUME UP and VOLUME DOWN buttons to change a setting. See "MENU FUNCTIONS" for details.
- G** MUTE
Press the button to mute the outputs of the preamp, the display will show "mute". Pressing the button again will reactivate the outputs of the preamp.



REMOTE CONTROL PAIRING

Please see "MUTE/REMOTE CONTROL PAIRING BUTTON" on page 4.

FACTORY RESET

You can reset all settings back to factory defaults. This will erase gain settings, the balance setting and the remote pairing settings. To do this, proceed as follows:

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

MENU FUNCTIONS

Using the front panel or remote control, you can change many settings of the preamp.

Using the remote, press the "Menu" button **F** to enter or exit the menu.

Using the front panel, press and hold the navigation button **4** for 3 seconds.

When entering the menu, the gain setting of the current input will be shown on the display. The top line of the display shows the current option ("Preamp gain" when entering the menu), and the bottom line shows the current setting.

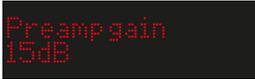
Using the remote, cycle through the options using the INPUT + **C** and INPUT - **D** buttons.

Using the front panel, press the navigation button **4** to cycle through the options.

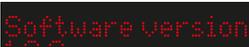
Use the VOLUME UP **A** and VOLUME DOWN **B** buttons of the remote, the up and down front panel buttons (**a** / **b**) or the rotary knob **5** to change the settings.

Once in the menu, using the remote, you can cycle through all options in the order shown in the diagram below.

Using the front panel, the preamp will return to normal operation once cycled through all the options.

SETTINGS	DISPLAY SHOWS
<p>Preamp gain (settings for individual inputs) Using this function you can set the gain of the selected input.</p>	
<p>Balance Using this function, you can change the left/right balance in 6 1dB steps.</p>	
<p>Display brightness You can change the display brightness in four steps: 10, 40, 70 and 100%</p>	

MENU SETTINGS (continued...)

SETTINGS	DISPLAY SHOWS
<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>	 A black rectangular area with red text that reads "Display dim" on the first line and "Off" on the second line.
<p>Home theatre bypass Using the home theatre bypass function, you can setup one of the inputs to use a fixed volume setting. Choose the input you want to use, or "Disabled" to use all inputs as regular inputs.</p>	 A black rectangular area with red text that reads "Home th. bypass" on the first line and "Disabled" on the second line.
<p>Home theatre bypass level If you have setup one of the inputs as a home theatre bypass input, you can set the fixed volume level using this menu option. 0dB (full volume) is often used, but any level can be set.</p>	 A black rectangular area with red text that reads "Home th. bypass level" on the first line and "0dB" on the second line.
<p>High pass frequency This setting, and the following two settings, are only shown if the optional active crossover module is fitted. Use this setting to change the crossover frequency of the high pass output</p>	 A black rectangular area with red text that reads "High pass freq." on the first line and "100Hz" on the second line.
<p>Low pass frequency Use this setting to change the crossover frequency of the low pass output.</p>	 A black rectangular area with red text that reads "Low pass freq." on the first line and "100Hz" on the second line.
<p>Low pass level Using this setting, you can trim the output level of the low pass output in 0.25dB steps. The range is +/-6dB.</p>	 A black rectangular area with red text that reads "Low pass level" on the first line and "000000dB" on the second line.
<p>Software version This menu option shows the current firmware version of the preamp.</p>	 A black rectangular area with red text that reads "Software version" on the first line and "1.0.0" on the second line.

SPECIFICATIONS

	Aavik C-280	Aavik C-580
Line:	Gain (line 1 - 4): 5-15dB; maximum input 5V RMS Gain (line 5): 1-11dB; maximum input 8V RMS Input impedance 10K ohm	Gain (line 1 - 4): 5-15dB; maximum input 5V RMS Gain (line 5): 1-11dB; maximum input 8V RMS Input impedance 10K ohm
Preamp output:	1 pair of RCA output Max output: 8,5Vrms Distortion, line stage: <0,005% (THD at 1kHz, 1V input) Output impedance: 50 ohms	1 pair of RCA output Max output: 8,5Vrms Distortion, line stage: <0,005% (THD at 1kHz, 1V input) Output impedance: 50 ohms
Volume control:	76 1dB steps	76 1dB steps
Aavik noise reduction:	Active Tesla Coils: 72 Active Square Tesla Coils: 156 Dither circuitry: 7	Active Tesla Coils: 108 Active Square Tesla Coils: 228 Dither circuitry: 10
Power consumption:	Standby: <1W Operating: <12W	Standby: <1W Operating: <12W
Dimensions:	102 x 384 x 400mm	102 x 384 x 400mm
Weight:	6,1 kg / with crossover: 6,2 kg	8,1 kg / With crossover: 8,2 kg
Active crossover (optional module):	Crossover frequency: 60-160Hz High pass slope: 12dB/octave Low pass slope: 24dB/octave	Crossover frequency: 60-160Hz High pass slope: 12dB/octave Low pass slope: 24dB/octave



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