INTEGRATED AMPLIFIER

USER GUIDE: I-180 / I-280 / I-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
- 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.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 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.

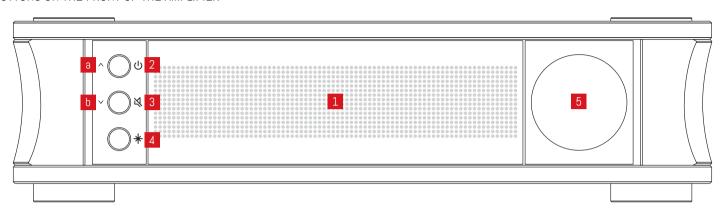
- 10. Only place apparatus horizontally and on a suitable table or rack.
- 11. Refer all servicing to qualified service personnel.
- 12. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

when:

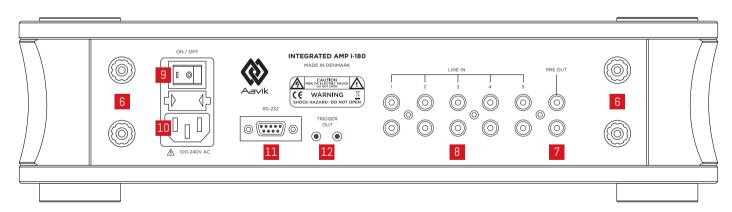
- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the equipment, or
- C. the equipment has been exposed to rain, or
- the equipment does not appear to operate normally or exhibits a marked change in performance, or
- E. the equipment has been dropped or the enclosure damaged.

- 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.
- The equipment has been designed for use in moderate climates and in domestic situations.
- 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.
- 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 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, and any power amp(s) connected to the pre outs will have some time to stabilize. When using trigger cables between the amplifier and power amp(s), the power amp(s) will be switched on and off together with the amplifier.

3 MUTE / REMOTE CONTROL PAIRING BUTTON
The mute button has multiple functions. When you
press this button briefly, it will mute the speaker

outputs of the amplifier, and also the pre outs with the standard configuration (see "MENU FUNCTIONS" page 7). 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 again briefly to go back to normal operation.

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 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.

7 PRE OUT

The amplifier is equipped with a set of pre out (preamplifier output) connections. They can be used for an active sub-woofer, a separate power amplifier or a headphone amplifier.

For some uses, such as in combination with an headphone amplifier, you may need to mute the speaker outputs, but not the pre outs. This can be achieved by changing the "Pre Out Mute" setting. See "MENU FUNCTIONS" for guidance.

8 LINE INPUTS

The amplifier 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.

9 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.

10 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.

11 RS-232, FIRMWARE UPDATE

The amplifier RS-232 terminal is used for firmware updates. You can check for firmware updates on the Aavik Acoustics homepage.

12 TRIGGER OUTPUTS

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



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.
- INPUT +. Press this button, to move to the next input, From Line 1 to Line 2 etc.
- 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 amplifier in standby mode, or to switch the amplifier 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.

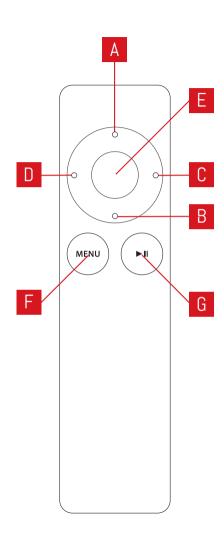
G MUTE

Press the button to mute the outputs of the amplifier. A small light beneath the mute button of the

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 amplifier at the main power switch 9
- Wait 30 seconds
- Press and hold the three front panel buttons 2 3 4
- Switch on the main power using 9, while still holding the front panel buttons
- All LED indicators on the front panel will switch on, and stay on
- \bullet After approx. 8 seconds the LED indicators will switch off again.
- Release the front panel buttons, and switch off the amplifier using the main power switch 9



MENII FUNCTIONS

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

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 too 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.

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 amplifier will return to normal operation once cycled through all the options.

SETTINGS FOR INDIVIDUAL INPUTS

DISPLAY SHOWS

Preamp gain

Using this function you can set the gain of the selected input. The gain number shown, is the gain between the input and pre out. The power amp adds 26dBs of gain.

Balance

Using this function, you can change the left/right balance in 6 1dB steps.

Pre out mute

This setting can be set either on or off. With the default setting (On), the pre out connectors are muted with the speakers, when muting is enabled. With pre out muting off, the pre out connectors will stay on, when the amp is muted. This function can be used e.g. for running a headphone amp on the pre out connectors. With pre out muting off, you can change inputs and volume setting with muting on. When you switch off muting again, the volume will return to the previous setting.

Display brightness

You can change the display brightness in four steps: 10, 40, 70 and 100%

MENU SETTINGS (continued...)

SETTINGS FOR INDIVIDUAL INPUTS **DISPLAY SHOWS** Display dim Using this setting, you can set the display to switch off automatically after 1-5 seconds. The standard setting is off. When the display is off, a single dim LED will be lit in the lower right corner. Temperature This menu option shows the current operating temperature of the power amp. Software version This menu option shows the current firmware version of the amplifier. 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. 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. OdB (full volume) is often used, but any level can be set.

SPECIFICATIONS

	Aavik I-180	Aavik I-280	Aavik I-580
Line:	Gain (line 1 - 4: 5-15dB; maximum input 4.5V RMS Gain (line 5: 1-11dB; maximum input 6.5V RMS Input impedance 10K ohm	Gain (line 1 - 4: 5-15dB; maximum input 4.5V RMS Gain (line 5: 1-11dB; maximum input 6.5V RMS Input impedance 10K ohm	Gain (line 1 - 4: 5-15dB; maximum input 4.5V RMS Gain (line 5: 1-11dB; maximum input 6.5V RMS Input impedance 10K ohm
Pre-amp. Output:	1 pair of RCA output Max output: 7,5Vrms Distortion, line stage: <0,005% (THD at 1kHz, 1V input) Output impedance: 50 ohms	1 pair of RCA output Max output: 7,5Vrms Distortion, line stage: <0,005% (THD at 1kHz, 1V input) Output impedance: 50 ohms	1 pair of RCA output Max output: 7,5Vrms Distortion, line stage: <0,005% (THD at 1kHz, 1V input) Output impedance: 50 ohms
Volume control:	76 1dB steps	76 1dB steps	76 1dB steps
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)	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)
Aavik noise reduction:	Active Tesla Coils: 36 Active Square Tesla Coils: 96 Dither circuitry: 5 Anti Areal Resonance Coils: 4	Active Tesla Coils: 72 Active Square Tesla Coils: 168 Dither circuitry: 8 Anti Areal Resonance Coils: 4	Active Tesla Coils: 108 Active Square Tesla Coils: 240 Dither circuitry: 11 Anti Areal Resonance Coils: 4
Power consumption:	Standby: <0.5W Idle: <50W	Standby: <0.5W Idle: <50W	Standby: <0.5W Idle: <50W
Dimensions:	102 x 384 x 400 mm	102 x 384 x 400 mm	102 x 384 x 400 mm
Weight:	8,8 kg	9,0 kg	10,7 kg



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9000 Aalborg Denmark http://www.aavik-acoustics.com

