PHONO STAGE

USER GUIDE | AAVIK R-880

Rev.1.0 ENG

Aavik

CONTENTS

SAFETY INSTRUCTIONS

1. Read and retain these instructions.

2. Follow all warnings and guidelines.

3. Clean the amplifier with a dry, lint-free cloth. For deeper cleaning, unplug it and use a damp cloth. Avoid chemical solvents or cleaners.

4. Do not place near heat sources like radiators, stoves, or heat-producing equipment.

5. Protect the power cord from damage, especially at plugs, outlets, and exit points.

6. Unplug during lightning storms or extended periods of non-use.

7. Do not modify the polarized or grounding plug.

8. Place the device horizontally on a stable surface. If stacking, keep the hottest component (e.g., an amplifier) on top.

9. Only qualified personnel should perform servicing.

10. Servicing is required if the device shows damage, such as:
Exposure to moisture or foreign objects
Liquid spills
Unusual operation, physical damage, or being dropped.

11. Keep liquids and objects away from the device's openings. Avoid dripping or splashing; do not place liquid-filled items (e.g., vases) on it.

12. Use in moderate climates and domestic settings only.

13. Connect only to the specified power supply. Ensure the mains plug is easily accessible for quick disconnection.

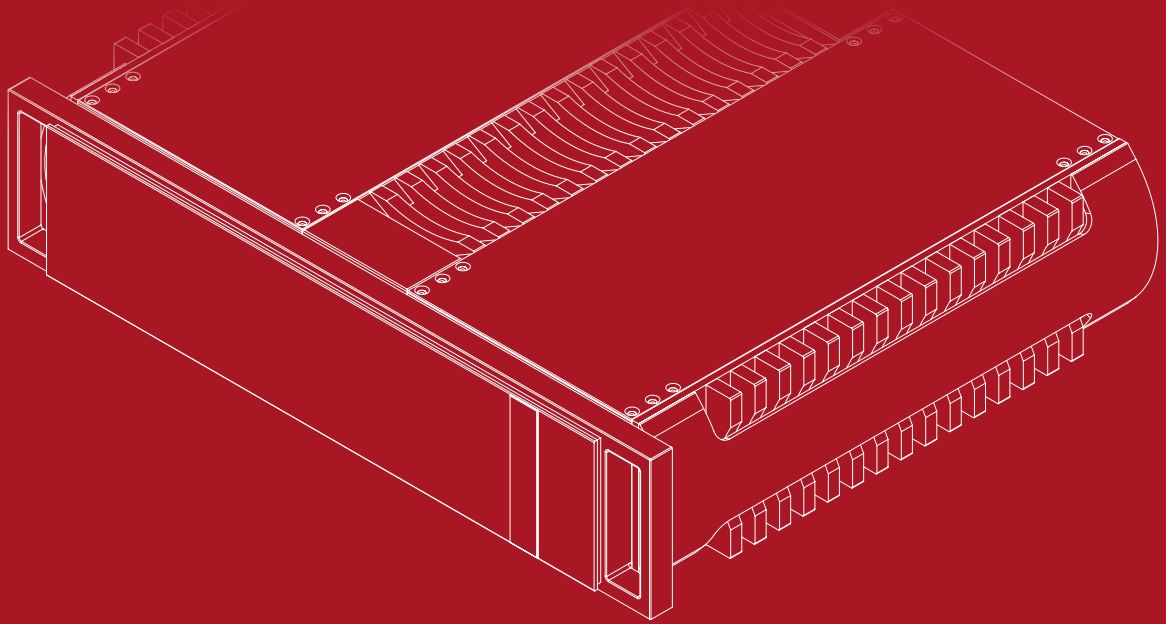
14. If smoke or abnormal odors occur, turn off the device, unplug it, and contact your dealer.

WARNING:

- To reduce fire or shock risk, do not expose the amplifier to rain or moisture.

- The lightning symbol in a triangle alerts users to potentially hazardous voltage inside the device.

- Do not remove the cover or back panel. There are no user-serviceable parts inside. Refer servicing to qualified personnel.



CONGRATULATIONS

The Aavik audio engineering team are thankful for your unique choice of the Aavik R-880 phono stage.

We are convinced that you will enjoy the exquisite music experience just as intimate and close as it was originally performed by the artist themselves.

The unique design is based on the unique collaboration by the engineer and the artist - Michael Børresen and Flemming Erik Rasmussen.

ABOUT THE PRODUCT

Unparalleled Innovation and Sophistication

The Aavik 880 series stands as Aavik's most innovative and sophisticated production to date. In mid-2021, Flemming Erik Rasmussen, the esteemed founder of Gryphon Audio, joined our design and development team, bringing over 35 years of experience and a profound artistic passion for hi-fi equipment. His arrival marked the beginning of a dynamic and productive collaboration, merging Michael Børresen's innovative approach with Flemming Erik Rasmussen's artistic and aesthetic design touch. Together, they embarked on a mission to create a new, groundbreaking Aavik series that would elevate the realm of musical authenticity to unprecedented heights.

A Harmonious Fusion of Artistry and Purpose

The exquisite exterior design of the Aavik 880 series reflects Flemming Erik Rasmussen's artistic and aesthetic work. However, at the core of his design philosophy has always been the belief that design must serve a purpose. The cabinet of the Aavik 880 series was meticulously crafted to preserve the finest audio characteristics of the electrical design, ensuring the lowest inductance, minimal hysteresis, and exceptional resonance control.

The Sonic Symphony of Copper

Inspired by Flemming Erik Rasmussen's fascination with copper's visual allure and Michael Børresen's profound insight into its sonic properties, this remarkable material became a cornerstone of the design. Thus, the Aavik 880 series features a solid copper enclosure, resulting in a further reduction in hysteresis, lower output impedance, decreased inductance, a positive impact on the damping factor, and enhanced amplifier cooling. These meticulously chosen components work in harmony, enabling the music to be reproduced with heightened energy and power. Furthermore, the amplifier proudly displays Flemming's design signature through cooling elements elegantly integrated on the sides and top.

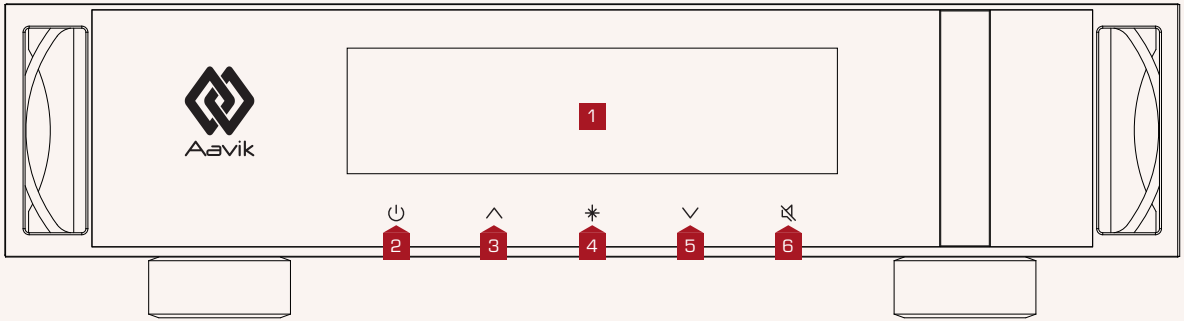
The Perfect Fusion of Functionality and Aesthetics

The choice of materials, as well as the interior and exterior design, are a testament to the fruitful collaboration between Flemming and Michael. Characterized by their unwavering focus on functionality and their innate sense of aesthetic elegance, the Aavik 880 series embodies the harmonious balance of form and purpose.

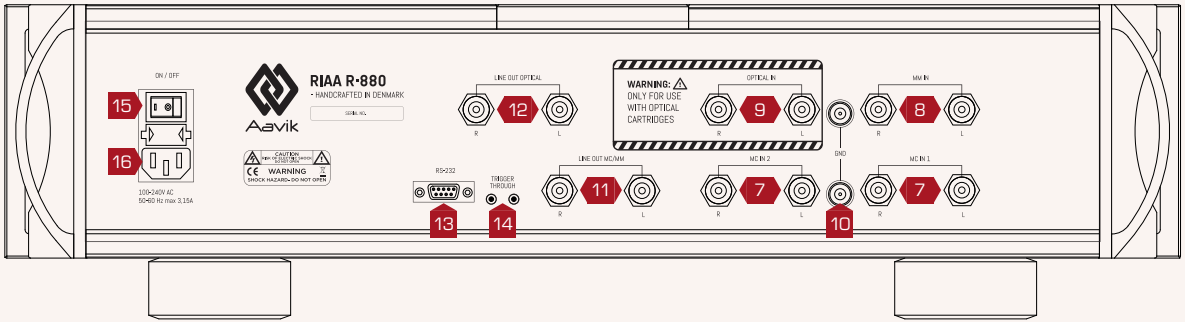
Get ready to immerse yourself in an extraordinary audio experience, where cutting-edge innovation seamlessly intertwines with captivating elegance.

FUNCTIONS

BUTTONS ON THE FRONT OF THE AMPLIFIER



CONNECTORS ON THE BACK OF THE AMPLIFIER



FRONT PANEL FUNCTIONS

1 DISPLAY

During normal operation the display shows the selected input.

It is possible to change the input with the up/down buttons. When changing settings, the display will show the setting being changed.

2 STANDBY

Press the standby button to place the phono stage in standby mode, or to switch on from standby mode. When the phono stage is in standby mode, the only light showing on the front panel will be a dim LED illuminating the standby button. When you switch on the phono stage, 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 will stabilize. When using trigger cables between the phono stage and amplifier, the phono stage will be switched on and off together with the amplifier.

3 UP BUTTON

The up button is used for switching inputs, and for changing menu options, when in the menu. See "Menu Functions" on page 9.

4 MENU BUTTON

The menu button is used for accessing the menu. See "Menu Functions" on page 9.

5 DOWN BUTTON

The down button is used for switching inputs, and for changing menu options, when in the menu. See "Menu Functions" on page 9.

6 MUTE

When you press this button briefly, it will mute the outputs of the phono stage. The display will show "Mute" in the bottom line. Press the button again to switch the outputs back on.

REAR PANEL FUNCTIONS

7 MC INPUTS

The phono stage is equipped with two RCA MC phono inputs. The inputs are fully balanced with floating ground. The ground reference is found on the ground terminal (10). To ensure the best performance, use a phono cable with a separate ground wire. The MC inputs use the RIAA equalisation curve, and are suitable for most low to high output MC cartridges. The cartridge load resistance is adjustable in 18 steps from 50 Ohm to 10 kOhm. Please see "Menu Functions" on page 9 for guidance.

8 MM INPUT

The phono stage is equipped with one RCA MM phono input. The input is fully balanced with floating ground. The ground reference is found on the ground terminal (10). To ensure the best performance, use a phono cable with a separate ground wire. The MM input uses the RIAA equalisation curve, and is suitable for most MM/MI and high output MC cartridges. The cartridge load resistance and capacitance is adjustable. Please see "Menu Functions" on page 9 for guidance.

9 OPTICAL INPUT

The phono stage is equipped with one RCA input for DS Audio optical cartridges. The ground reference is found on the ground terminal (10). To ensure the best performance, use a phono cable with a separate ground wire. The input uses equalisation tailored for optical cartridges, and is suitable for all current DS Audio cartridges. The low- and high cut-off frequencies are adjustable. Please see "Menu Functions" on page 9 for guidance.

Warning: This input is only for optical cartridges. If you connect an MM or MC cartridge to the optical input, it WILL be damaged beyond repair!

10 GROUND TERMINALS

These terminals are meant for ground connections to the turntable(s). They accept spade lugs, bare wires and banana plugs.

11 12 LINE OUTS

The DAC is equipped with two line outputs. One is for the MM and MC section, and the other is for the optical cartridge section.

13 RS-232, SOFTWARE UPDATE

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

14 TRIGGER CONNECTIONS

The phono stage is equipped with two DC trigger connectors. These can be used to power-on the phono stage, when the amplifier is switched on. Connect one of the connectors to the amplifier. The second connector can be used to switch on a further piece of equipment.

The phono stage will switch on when 5-15VDC is applied to a trigger input.

15 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and stand-by mode. When the phono stage is in standby mode, the power consumption is less than 1W. When it is on, the power consumption is less than 100W.

16 POWER INLET (CAUTION!)

The phono stage 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.

REMOTE CONTROL

B STANDBY, Press this button to place the device in standby mode, or to switch the device on from standby mode.

C INV, Used to invert the phase when playing back from the MM or MC inputs. This allows compensation for recordings that have inverted polarity. Default setting “Positive”: A positive sine wave at the input remains positive at the output. Inverted setting: A positive sine wave at the input is negative or inverted at the output. When the setting is inverted, an “Inverted phase” is shown in the display of the phono stage.

When using the optical input, the button selects between inverting the left or the right channel. The outputs from an optical cartridge are out of phase, so one channel has to be inverted. As for the MM/MC inputs, the setting allows compensation for recordings that have inverted polarity.

E MENU, Use this button to enter the menu, or switch back to normal operation. Use the ARROW RIGHT and LEFT buttons to cycle through the menu, and the ARROW UP and ARROW DOWN buttons to change a setting. See “MENU FUNCTIONS” for details.

F i, Use this button to show information about the device.

G ARROW UP/ARROW DOWN, Press these buttons for menu navigation.

H ARROW RIGHT/LEFT, Press these buttons, to move to the next/previous input. The arrow buttons are also used for menu navigation.

I VOLUME DOWN, Press this button to decrease the volume setting of an Aavik amplifier.

J MUTE, Press the button to mute the outputs of the phono stage, the display will show ”Mute”. Pressing the button again will reactivate the outputs of the device.

K VOLUME UP, Press this button to increase the volume setting of an Aavik amplifier.

A A, Used to select the amplifier mode of the remote control.

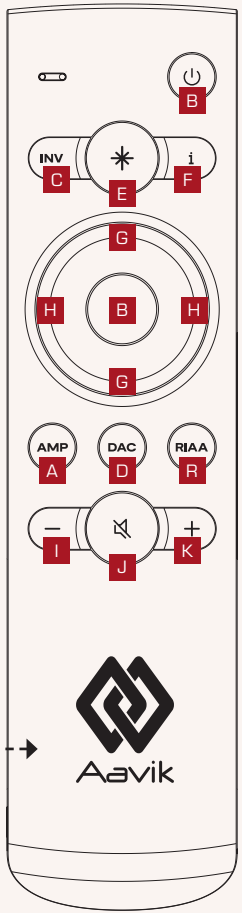
D D, Used to select the DAC mode of the remote control.

R R, Used to select the phono stage mode of the remote control.

INSTALLING/REPLACING BATTERY

To remove the backplate, apply slight pressure and move it downwards to release it. Install one AAA battery as indicated in the battery compartment.

Remove the battery if you are not going to use the remote for an extended period of time.



MENU FUNCTIONS

Note: In order to save your settings, set the phono stage in standby mode by pressing the standby button (B / 2).

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

Using the remote, press the "Menu" button E to enter or exit the menu. Using the front panel, press and hold the menu button 4 for 3 seconds.

When entering the menu using the remote, the first setting of the current input will be shown. When entering through the front panel button, the last setting of the current input will be shown. The top line of the display shows the current option, and the bottom line shows the current setting.

Using the remote, cycle through the options using the ARROW RIGHT/LEFT buttons H.

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

Use the ARROW UP and ARROW DOWN buttons of the remote, the up and down front panel buttons (3 / 5) to change the settings.

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

MC INPUT SETTINGS	DISPLAY SHOWS
INPUT LOADING Using this function, you can set the loading resistance on the current MC input. The range is 50 ohms to 10 kOhms.	
GAIN Using this function you can set the gain of the current input. The possible settings are 47dB, 58dB and 69dB. The lowest gain is suitable for high output MC cartridges.	

MM INPUT SETTINGS	DISPLAY SHOWS
CAPACITIVE LOADING Using this function, you can set the capacitive loading on the MM input. The range is 20 to 200pF.	
RESISTIVE LOADING Using this function, you can set the loading resistance on the MM input. The range is 36 to 58 kOhms or 1 kOhms. The 1k setting is suitable for high output MC cartridges.	

MENU FUNCTIONS

OPTICAL INPUT SETTINGS	DISPLAY SHOWS
HIGH CUT Using this function, you can enable a soft high cut filter. Some optical cartridges have a rising output at high frequencies, and using this filter you can flatten the response. The settings are off, 11kHz, 16kHz or 35kHz.	
LOW CUT Using this function, you can change the cut-off frequency of the built-in low cut filter. Optical cartridges are flat all the way to 0Hz (DC), so a low cut (subsonic filter) is necessary. The standard setting is 50Hz, but 30Hz or 40Hz (for more bass output), or 70Hz (for less bass output) is also possible.	

COMMON SETTINGS	DISPLAY SHOWS
DISPLAY BRIGHTNESS You can change the display brightness in four steps: 10, 40, 70 and 100%	
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, only the logo and touch buttons will be dimly lit.	
SOFTWARE VERSION This menu option shows the current software version of the phono stage.	

SPECIFICATIONS

MC INPUTS	Floating RCA (2 sets) Max input: 5mVrms Gain: 47dB, 58dB or 69dB @ 1 kHz Input load resistance adjustable from 50 ohm to 10k ohm
MM INPUT	Floating RCA (1 sets) Max input: 25mVrms Gain: 35dB, 46dB or 57dB @ 1 kHz Input load resistance: 1k ohm or 36-58k ohm Input load capacitance: 20-200pF
OPTICAL INPUT	RCA (1 set) Max input: 500mVrms Gain: 25dB
FREQUENCY RESPONSE	+/-0.1dB (50Hz-20kHz), +0.1/-1dB (20Hz-20kHz)
OUTPUT	2 pairs of RCA outputs. One for MM/MC, and one for optical. Distortion: <0.02% (THD at 1kHz, nominal input) Output impedance: 70 ohms
AAVIK NOISE REDUCTION	Active Tesla Coils: 66 | Active Square Tesla Coils: 132 Dither circuitry: 8 | Active zirconium anti aerial resonance Tesla coils: 2
POWER CONSUMPTION	Standby: <1W On: <100W
DIMENSIONS	580 x 510 x 155mm / 22.8 x 20.1 x 6.1 inch
WEIGHT	35kg / 77.2lbs
MAINS VOLTAGE AND CURRENT	100-240V AC - 50-60 Hz max 3.15A
ENCLOSURE CLASSIFICATION	IP10

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We would love to hear about your experience with this product.
Don't hesitate to contact us with feedback or questions.

info@audiogroupdenmark.com

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