

PHONO STAGE

USER GUIDE | AAVIK R-188 / R-288 / R-588

Rev.1.0 ENG



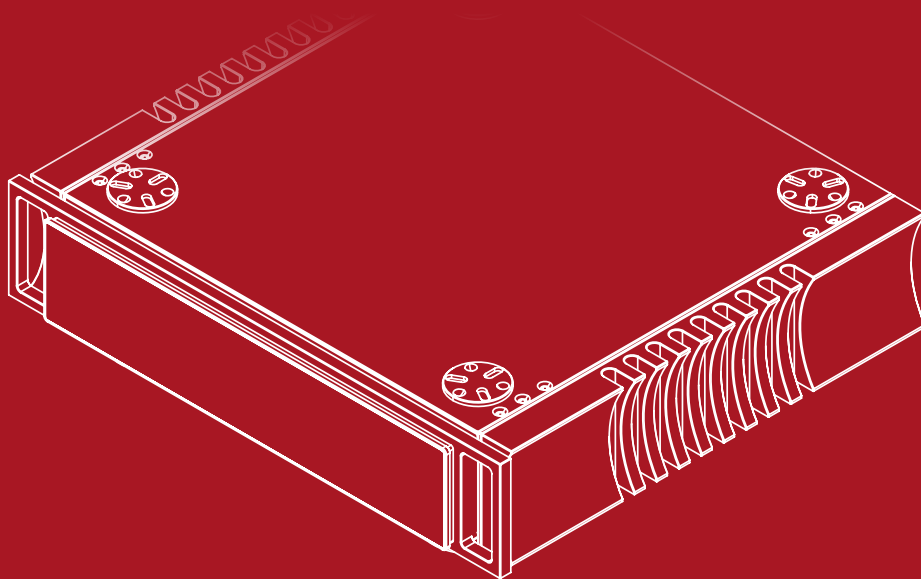
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- 10 SPECIFICATIONS

Safety instructions

1. Read and retain these instructions.
 2. Follow all warnings and guidelines.
 3. Clean the phono stage 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 phono stage 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.





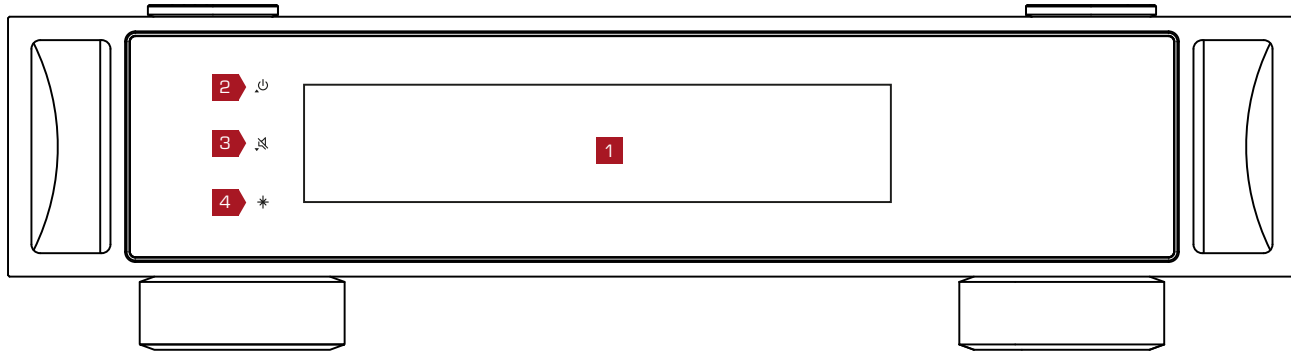
Congratulations

Congratulations on your selection of the Aavik R-x88 product! We are thrilled that you have chosen Aavik as your new piece of electronic, hand crafted in Denmark, ready to lift your performance.

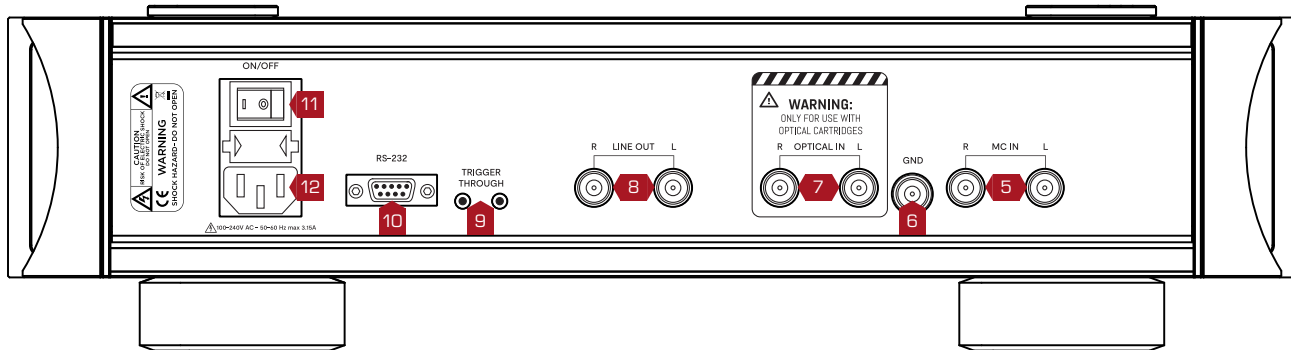
Prepare to be blown away from your music once again and get closer to artist more than ever before.

Functions

BUTTONS ON THE FRONT OF THE PHONO STAGE



CONNECTORS ON THE BACK OF THE PHONO STAGE



Front panel functions

1 DISPLAY

During normal operation the active input is shown.

When changing settings (See "Menu Functions" on page 8), 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 the phono stage from standby mode.

When the phono stage is in standby mode, the only light showing on the device will be a dim LED in the lower left corner of the display. 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 of the unit will initialise.

When using trigger cables between the phono stage and an amplifier, the phono stage will be switched on and off together with the amplifier.

3 MUTE

When you press this button briefly, it will mute the analogue outputs of the phono stage. The display will show "Mute" next to the active input name. Press mute again, to disable mute.

4 INPUT SELECT/MENU BUTTON

The input select button lets you select the desired source. Pressing the button briefly will activate input selection. The display will flash, while still showing the selected input. Pressing the standby and mute buttons lets you select the desired source.

Press the input select button again to deactivate input selection mode.

Press and hold the menu button for 3 seconds to enter the menu. You can change setting using the standby and mute buttons, and then press the menu button to step to the next setting. For more information, See "Menu Functions" on page 8.

Rear panel functions

5 MC INPUTS

The phono stage is equipped with one RCA MC phono inputs. The input is fully balanced with floating ground. The ground reference is found on the ground terminal (6). To ensure the best performance, use a phono cable with a separate ground wire. The MC input use the RIAA equalisation curve, and is 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 8 for guidance.

6 GROUND TERMINAL

This terminal is meant for ground connections to the turntable(s). It accepts spade lugs, bare wires and banana plugs.

7 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 (6). 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 8 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!

8 LINE OUT

The phono stage is equipped with one line output.

9 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.

10 RS-232, SOFTWARE UPDATE

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

11 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and standby 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 40W.

12 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.

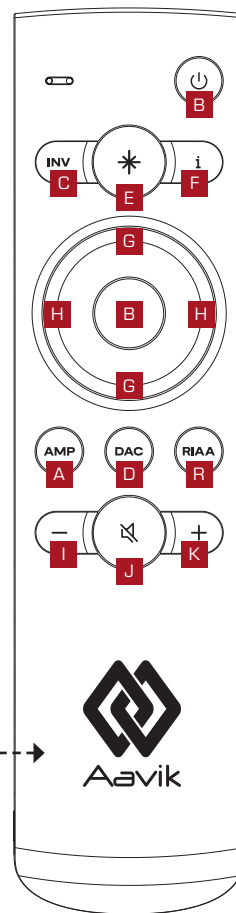
D **D**, Used to select the DAC mode of the remote control.

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 **F** 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 (**G** / **I**) 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

INPUT LOADING

Using this function, you can set the loading resistance on the current MC input. The range is 50 ohms to 10 kOhms.



Input loading
100 Ohm

GAIN

Using this function you can set the gain of the current input. The possible settings are 58dB and 64dB.



Gain
58dB

OPTICAL INPUT SETTINGS

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.



High cut
16kHz

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 (for more bass output) is also possible.



Low cut
50Hz

DISPLAY SHOWS

DISPLAY SHOWS

Menu functions

COMMON SETTINGS

DISPLAY BRIGHTNESS

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

DISPLAY SHOWS

A screenshot of a monochrome display showing the text "Display brightness" on the first line and "70%" on the second line.

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.

A screenshot of a monochrome display showing the text "Display dim" on the first line and "Off" on the second line.

SOFTWARE VERSION

This menu option shows the current software version of the phono stage.

A screenshot of a monochrome display showing the text "Software version" on the first line and "1.0.0" on the second line.

FACTORY RESET

Press the ARROW UP button to reset all settings to factory default. When the reset is complete, the phono stage will switch off.

A screenshot of a monochrome display showing the text "Factory reset" on the first line and "Press ^ to reset" on the second line.

Specifications

	R-188	R-288	R-588
MC INPUTS	Floating RCA (1 set) Max input: 5mVrms Gain: 58dB or 64dB @ 1 kHz Input load resistance adjustable from 50 ohm to 10k ohm	Floating RCA (1 set) Max input: 5mVrms Gain: 58dB or 64dB @ 1 kHz Input load resistance adjustable from 50 ohm to 10k ohm	Floating RCA (1 set) Max input: 5mVrms Gain: 58dB or 64dB @ 1 kHz Input load resistance adjustable from 50 ohm to 10k ohm
FREQUENCY RESPONSE (MC)	58dB: +0.1/-0.4dB (20Hz-20kHz), 64dB: +0.1/-1.1dB (20Hz-20kHz)	58dB: +0.1/-0.4dB (20Hz-20kHz), 64dB: +0.1/-1.1dB (20Hz-20kHz)	58dB: +0.1/-0.4dB (20Hz-20kHz), 64dB: +0.1/-1.7dB (20Hz-20kHz)
OPTICAL INPUT	RCA (1 set) Max input: 500mVrms Gain: 26dB	RCA (1 set) Max input: 500mVrms Gain: 26dB	RCA (1 set) Max input: 500mVrms Gain: 26dB
FREQUENCY RESPONSE (OPTICAL)	+0.1/-0.3dB (20Hz-20kHz)	+0.1/-0.3dB (20Hz-20kHz)	+0.1/-0.3dB (20Hz-20kHz)
OUTPUT	1 pair of RCA outputs. Distortion: <0.05% (THD at 1kHz, nominal input) Output impedance: 70 ohms	1 pair of RCA outputs. Distortion: <0.05% (THD at 1kHz, nominal input) Output impedance: 70 ohms	1 pair of RCA outputs. Distortion: <0.05% (THD at 1kHz, nominal input) Output impedance: 70 ohms

	R-188	R-288	R-588
AAVIK NOISE REDUCTION	Active Tesla Coils: 36 Active Square Tesla Coils: 72 Dither circuitry: 3	Active Tesla Coils: 72 Active Square Tesla Coils: 144 Dither circuitry: 6	Active Tesla Coils: 108 Active Square Tesla Coils: 216 Dither circuitry: 9
POWER CONSUMPTION	Standby: <1W On: <15W	Standby: <1W On: <15W	Standby: <1W On: <40W
DIMENSIONS	440 x 430 x 116mm / 17,3 x 16,9 x 4,6 inches	440 x 430 x 116mm / 17,3 x 16,9 x 4,6 inches	440 x 430 x 116mm / 17,3 x 16,9 x 4,6 inches
WEIGHT	21kg / 46lbs	21kg / 46lbs	21kg / 46lbs
MAINS VOLTAGE AND CURRENT	100-240V AC - 50-60 Hz max 3,15A	100-240V AC - 50-60 Hz max 3,15A	100-240V AC - 50-60 Hz max 3,15A
ENCLOSURE CLASSIFICATION	IP10	IP10	IP10



Aavik

Support & Contact

For any questions, technical guidance, or assistance with setup and system optimization, our support team is available to help you achieve the full potential of your system.

Mail: info@audiogroupdenmark.com

audiogroupdenmark.com