

# AAVIK C-880

USER GUIDE | CONTROL AMPLIFIER



## 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 device only with a dry, lint-free cloth. For more thorough cleaning, unplug the device from the mains supply and go over it lightly with a damp 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.

## CAUTION

**WARNING:** To reduce the risk of fire or electric shock, do not expose the device 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.

**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.

**HEAVY PRODUCT:** Please note that this product exceeds recommended load for lifting and handling. Place on a surface that supports the weight.

**Max ambient operating temperature:** 40° Celsius

CE



## CONGRATULATIONS

The Aavik audio engineering team are thankful for your unique choice of the Aavik C-880 Control Amplifier. 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.

Handwritten signatures of Michael Børresen and Flemming Erik Rasmussen.

## CONTENTS

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<b>4</b>	<b>ABOUT THE PRODUCT</b>	<b>10</b>	<b>MENU FUNCTIONS</b>
<b>7</b>	<b>FRONT PANEL FUNCTIONS</b>	<b>12</b>	<b>SPECIFICATIONS</b>
<b>8</b>	<b>REAR PANEL FUNCTIONS</b>	<b>12</b>	<b>FACTORY RESET</b>
<b>9</b>	<b>REMOTE</b>		

## 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 Avik 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.

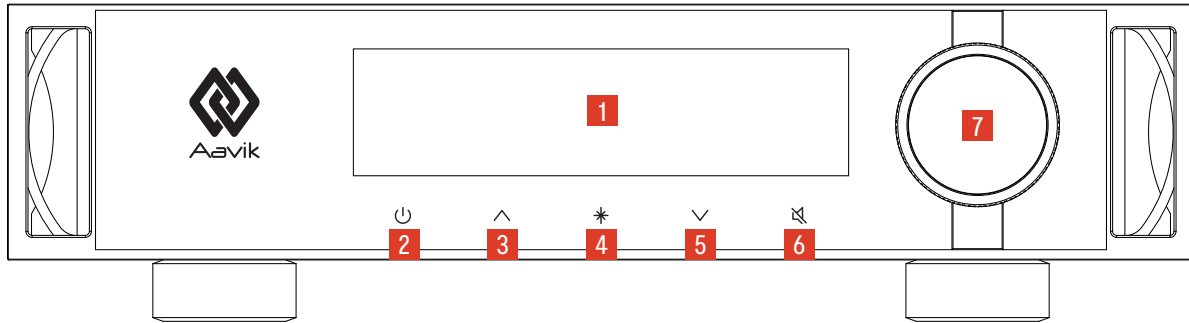
## The Perfect Fusion of Functionality and Aesthetics

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 Avik 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.

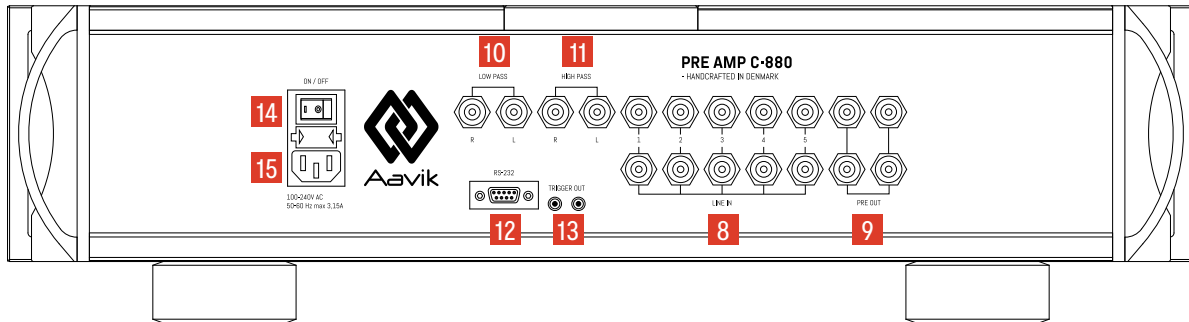


# FUNCTIONS

## BUTTONS ON THE FRONT OF THE AMPLIFIER



## CONNECTORS ON THE BACK OF THE AMPLIFIER



## FRONT PANEL FUNCTIONS

### 1 DISPLAY

During normal operation the 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 up/down buttons. When changing settings, the display will show the setting being changed.

### 2 STANDBY

Press the standby button 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 illuminating the standby button. 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 control amplifier and power amp(s), the power amp(s) will be switched on and off together with the control amplifier.

### 3 UP BUTTON

The up button is used for switching inputs, and for changing menu options, when in the menu. See "MENU FUNCTIONS".

### 4 MENU BUTTON

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

### 5 DOWN BUTTON

The down button is used for switching inputs, and for changing menu options, when in the menu. See "MENU FUNCTIONS".

### 6 MUTE

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"). The display will show "Mute" instead of the volume setting.

### 7 VOLUME CONTROL (ROTATING KNOB)

Use the rotating knob to change the volume or menu settings.

## REAR PANEL FUNCTIONS

### 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 15dB 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 PRE OUT

The amplifier is equipped with two sets of pre out (preamplifier output) connections. They can be used for power amplifiers, an active sub-woofer, or a head-  
phone amplifier.

### 10 LOW PASS OUTPUTS

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

### 11 HIGH PASS OUTPUTS

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

### 12 RS-232, SOFTWARE UPDATE

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

### 13 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.

### 14 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 15W.

### 15 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.

## REMOTE

**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 digital audio (streamer or DAC). An 'i' will be added to the source display, when the DAC is in inverting mode. Not used in amplifier mode.

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 "i" is shown in the display of the Aavik device.

**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, or the currently playing audio.

**G** **ARROW UP/ARROW DOWN**, Press this button to increase/decrease the volume setting.

**H** **ARROW RIGHT/LEFT**, Press this button, 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 amplifier, 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.

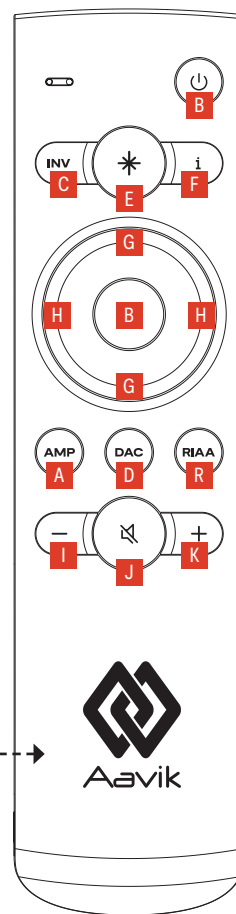
**D** **D**, Used to select the Streamer DAC mode of the remote control.

**R** **R**, Used to select the RIAA mode of the remote control.

### INSTALLING/REPLACING BATTERIES

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 amplifier in standby mode by pressing the stand by button (B / 2).

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

Using the remote, press the “Menu” button to enter or exit the menu. Using the front panel, press and hold the menu 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 + and INPUT – buttons.

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

Use the VOLUME UP and VOLUME DOWN buttons of the remote, the up and down front panel buttons (3 / 5) or the rotary knob 7 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 amplifier will return to normal operation once cycled through all the options.

### SETTINGS

#### 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.

#### 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.

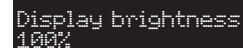
### DISPLAY SHOWS



Preamp Gain  
15dB



Balance  
L:0dB R:0dB



Display brightness  
100%



Display dim  
Off

# MENU FUNCTIONS

## SETTINGS

## DISPLAY SHOWS

### 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 th. bypass  
Disabled
```

### 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.

```
Home th. byp. level  
0dB
```

### HIGH PASS FREQUENCY

Use this setting to change the crossover frequency of the high pass output.

```
High pass freq.  
100Hz
```

### LOW PASS FREQUENCY

Use this setting to change the crossover frequency of the low pass output.

```
Low pass freq.  
100Hz
```

### 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.

```
Low pass level  
0000000dB
```

### SOFTWARE VERSION

This menu option shows the current firmware version of the amplifier.

```
Software version  
1.0.0
```

## SPECIFICATIONS

<b>LINE:</b>	Gain (line 1 – 4): 5–15dB; maximum input 4.5Vrms Gain (line 5): 1–11dB; maximum input 6.5Vrms Input impedance 10K ohm
<b>PRE-AMP. OUTPUT:</b>	2 pairs of RCA outputs Max output: 7.5Vrms Distortion, line stage: <0.005% (THD at 1kHz, 1V input) Output impedance: 50 ohms
<b>VOLUME CONTROL:</b>	76 1dB steps
<b>AAVIK NOISE REDUCTION:</b>	Active Tesla Coils: 132 Active Square Tesla Coils: 311 Dither circuitry: 18 Active zirconium anti aerial resonance Tesla coils: 20 Active zirconium cable anti aerial resonance Tesla coils: 4
<b>POWER CONSUMPTION:</b>	Standby: <1W Idle: <15W
<b>DIMENSIONS:</b>	580,0 x 510,0 x 155,0 mm / 22,8 x 20,1 x 6,1 inch
<b>WEIGHT:</b>	35kg / 77,2 lbs
<b>MAINS VOLTAGE AND CURRENT:</b>	100–240V AC – 50–60 Hz max 3,15A
<b>ENCLOSURE CLASSIFICATION:</b>	IP10

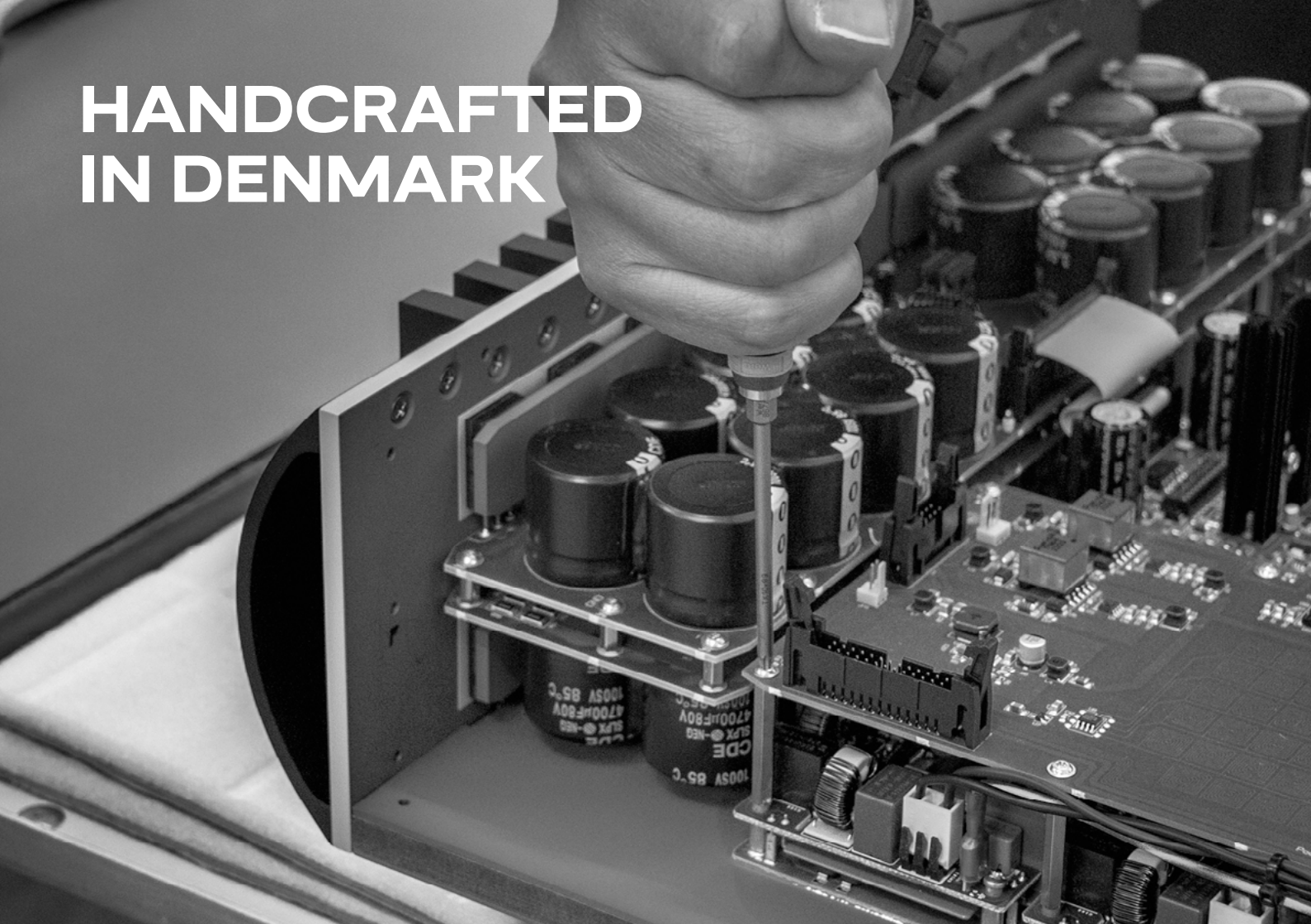
## FACTORY RESET

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 on the amplifier using the standby button **2** or the remote control.
- Press and hold the up and down front panel buttons **3** and **5** simultaneously.

The display will show “Restoring default settings ...” and then “Shutting down”. The amp will switch off, and you can turn it back on using the front panel button **2**.

**HANDCRAFTED  
IN DENMARK**

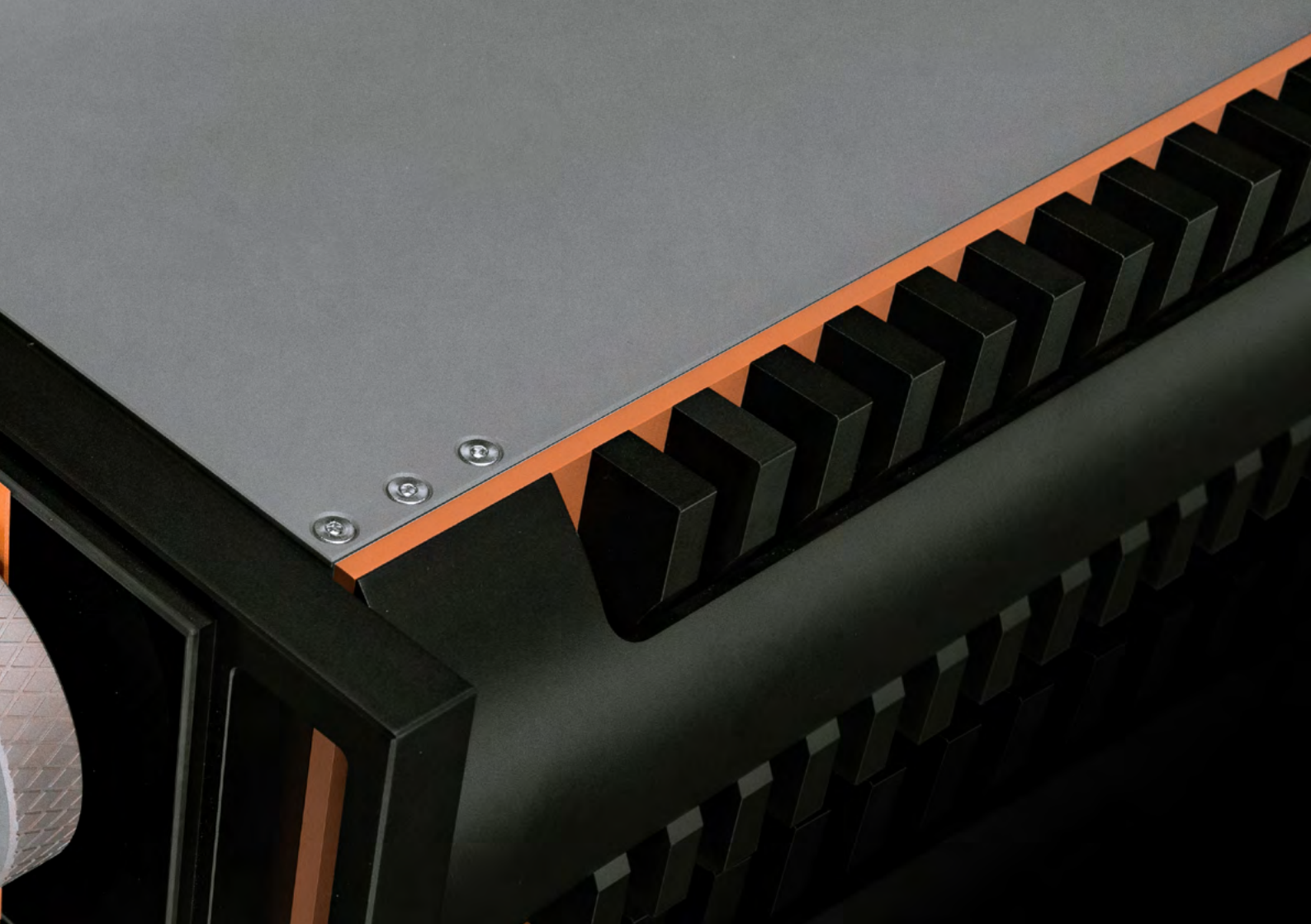


NAVIG C-880



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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.

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