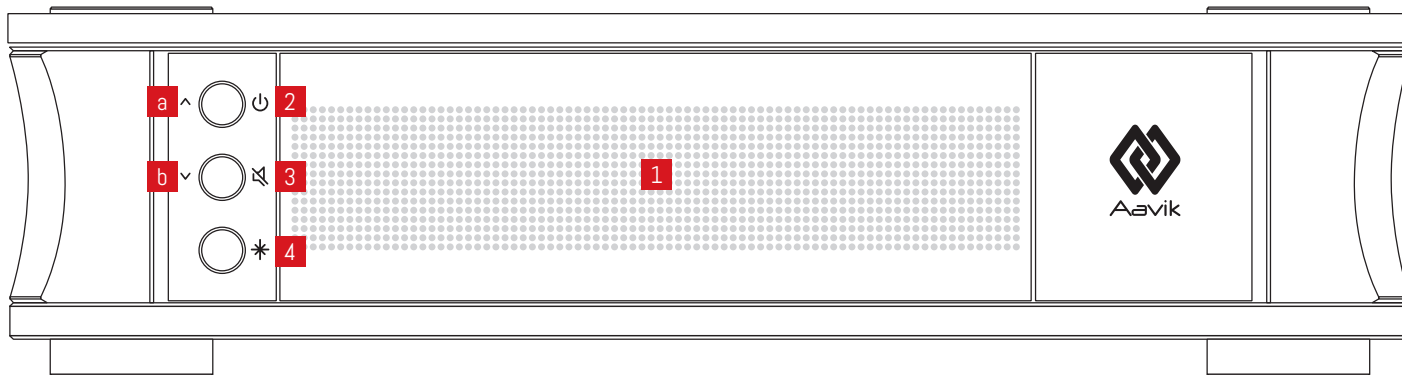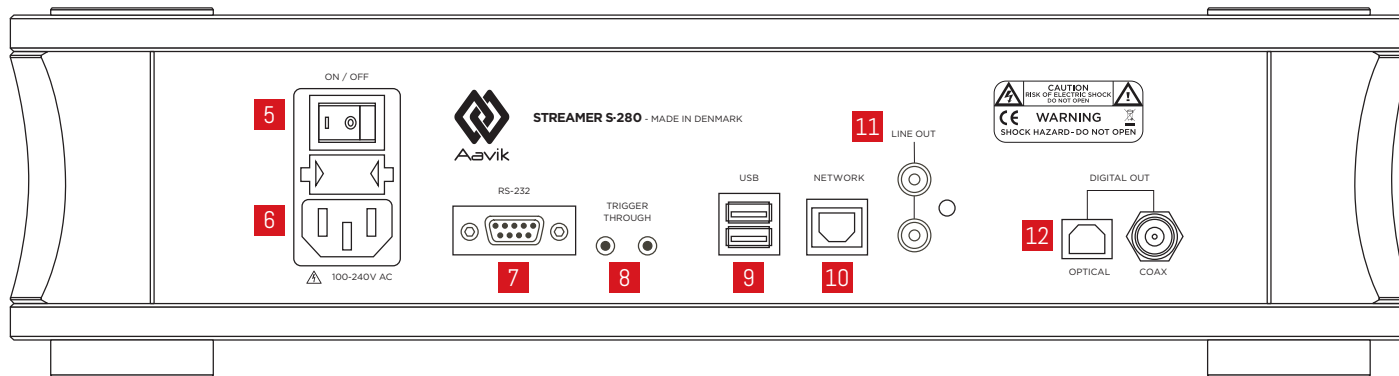# STREAMER

USER GUIDE: S-180 / S-280 / S-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 streamer only with a dry, lint-free cloth. For more thorough cleaning, unplug the streamer 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 that produce heat.

7. Protect the power cord from being walked on or pinched particularly at plugs, conve-nience 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.

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

D. 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.

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 dis-connection 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 STREAMER

CONNECTORS ON THE BACK OF THE STREAMER

ON / OFF

STREAMER S-280 - MADE IN DENMARK

100-240V AC

RS-232

TRIGGER THROUGH

USB

NETWORK

LINE OUT

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CE WARNING
SHOCK HAZARD - DO NOT OPEN

DIGITAL OUT

OPTICAL   COAX

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 playback the display shows the first two lines of metadata -usually the artist and track name. When the streamer is in stop-mode, "Ready" is shown.

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 streamer in standby mode, or to switch on the streamer from standby mode. When the streamer is in standby mode, the only light showing on the streamer will be a dim LED light in the lower left corner. When you switch on the streamer, a line will illuminate at the bottom of the displays, starting in the lower left corner. The start-up time depends on the type of network used.

[3] MUTE / REMOTE CONTROL PAIRING BUTTON
The mute button has multiple functions. When you press this button briefly, it will pause playback. The display will show ''Ready'' and 'Paused''. Press the button again to re-start playback.

If you are using an Apple remote, you can pair the streamer with one specific remote. In order to pair your remote control with the streamer, press and hold the front panel mute button [3] for more than one second.

When the streamer is ready to pair, the display will flash slowly. To pair, press a button on your remote control facing it toward the streamer. 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 DAC 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.

[4] NAVIGATION/MENU BUTTON
The navigation button is used for accessing the menu. See ''MENU FUNCTIONS'' page 7.

5 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and the power consumption is less than 1W. When the streamer is on, the power consumption is less than 20W.

6 POWER INLET (CAUTION!)

The streamer 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.

7 RS-232, FIRMWARE UPDATE

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

8 TRIGGER CONNECTIONS

The streamer is equipped with two DC trigger connectors. These can be used to power-on the streamer, 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 streamer will switch on when 5-15VDC is applied to a trigger input.

9 USB

The streamer is equipped with two USB 2.0 sockets. They can be used for a WiFi dongle and a USB flash drive.

10 NETWORK

The streamer is equipped with an Ethernet 100BASE-TX network interface.
Connect to a 100Mb or 1Gb network for best performance. A 10Mb network will not support high-res streaming.

11 LINE OUT

The streamer is equipped with an analogue line output. This can be fixed level or variable. Use fixed level for best quality playback.

12 DIGITAL OUT

The streamer is equipped with two digital S/P-DIF outputs. One electrical (BNC) and one optical (Toslink). Both support sample rates up to 192kHz.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

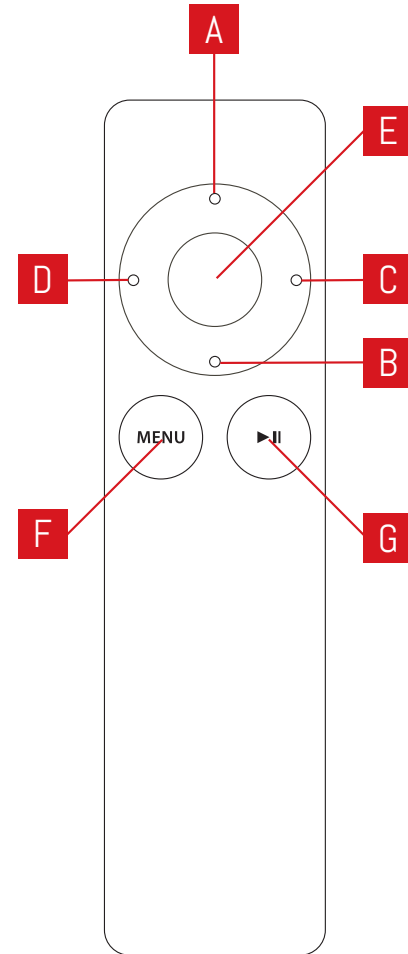WARNING
SHOCK HAZARD - DO NOT OPEN

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

APPLE REMOTE

A VOLUME UP, Used for changing menu settings.

B VOLUME DOWN, Used for changing menu settings.

C INPUT +, Used for changing menu settings.

D   INPUT -, Used for changing menu settings.

E STANDBY, Press this button to place the streamer in standby mode, or to switch the
streamer 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 this button to pause playback, and press it again to re-start playback.

FACTORY RESET

You can reset all settings back to factory defaults. This will erase all settings. To do this, proceed as follows:

• Switch off the streamer 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
• After approx. 8 seconds the LED indicators will switch off again.
• Release the front panel buttons, and switch off the streamer using the main power switch 9

MENU FUNCTIONS

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

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

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

When you enter the menu, the display brightness setting will be shown on the display. The top line of the display shows the current option ("Display brightness" when you enter the menu), and the bottom line shows the current setting.
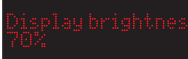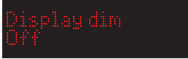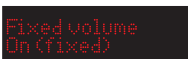
Using the remote, you can cycle through the options using the INPUT + C and INPUT - D buttons.

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) 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 streamer will return to normal operation once you have cycled through all the options.

SETTING	DISPLAY SHOWS
Playback info This displays information about the stream currently playing. The top line displays the active source, and the bottom line the codec and sample rate. This menu item can only be accessed using the remote control.	Source: DLNA FLAC 44.1kHz
Display brightness You can change the display brightness in four steps: 10, 40, 70 and 100%	Display brightnes 70%
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.	Display dim Off
Fixed volume You can select between having fixed output volume, or variable output volume on the analogue line output. Use fixed volume for best possible sound quality, and adjust the volume on your amplifier. The digital outputs are not affected by this setting.	Fixed volume On (fixed)
Gapless playback With gapless playback off, the streamer will insert small breaks between tracks. This is needed by some DACs.	Gapless playback On
MQA unfolding If your DAC does not support MQA unfolding (decoding), use the setting "On (in streamer)". If your DAC does support MQA (including Aavik DACs and most Aavik amps), use the setting "In DAC" or "Off". The setting "In DAC" will inform some streaming services, that MQA decoding is on, although the streamer is not performing the decoding step.	MQA unfolding In DAC

SETTING	DISPLAY SHOWS

DSD output mode
If your DAC supports DoP (DSD over PCM) on it's S/P-DIF input, use the "DoP" setting. Most DACs do not, and the the PCM setting should be used. If the internal DAC of the streamer is used, use the PCM setting. Otherwise you will only hear low-level noise when playing back DSD data.

> DSD output mode
> PCM

Network status
This will show if either LAN (wired Ethernet) or WiFi (wireless network) is connected. If both is available, the wired connection is selected.

> Network status
> LAN connected

Stream firmware
This can be updated over the network.

> Stream firmware
> 03.07.68

Software version
This can be updated through the RS-232 port.

> Software version
> 1.0.0

WiFi signal level
This displays the signal level between 0 and 100%. If your streamer does not have an active WiFi connection, "0%" will be shown.

> WiFi signal level
> 0%

Scan WiFi network
If you want to connect to a WiFi network, and have a supported WiFi dongle installed in the top USB socket, you can scan for available networks.
Press the ▲ button to scan. After the scan, you can browse through networks using the ▼ and ▲ buttons.
Connecting to a WiFi network, can only be done using the remote - not through the front panel.
Select the network using the centre button of the remote (E).
To enter the password of the network, browse through letters and numbers using the ▼ and ▲ buttons.
To move to the next character, press the ▶ button.
When you have selected the final character, do not press the ▶ button, but press the centre button of the remote (E) to enter the password.
If the connection fails, you can enter the password again.

> Scan WiFi network
> Press ▲ to scan

> Scan WiFi network
> scanning ...

> Scan complete
> Networks: 5

> Select network
> 1: YOURS

> Enter WiFi key:
> Password1234

Firmware update
Press the ▲ button to check, if a firmware update is available. If it is, you can install it by pressing the v button. The update takes a few minutes - progress is shown on the display. If will stay at "0%" while the update is downloaded. DO NOT switch off the power while the streamer is updating.

> Firmware update
> Press ▲ to check

SPECIFICATIONS

	Aavik S-180	Aavik S-280	Aavik S-580
Streaming:	DLNA 1.5 UPnP AV 1.0	DLNA 1.5 UPnP AV 1.0	DLNA 1.5 UPnP AV 1.0
Output:	1 pair of RCA line outputs 1 x BNC S/P-DIF (32 - 192 k-samples, 24-bit 1 x TOSLINK optical (32 – 192 k-samples, 24-bit	1 pair of RCA line outputs 1 x BNC S/P-DIF (32 - 192 k-samples, 24-bit 1 x TOSLINK optical (32 – 192 k-samples, 24-bit	1 pair of RCA line outputs 1 x BNC S/P-DIF (32 - 192 k-samples, 24-bit 1 x TOSLINK optical (32 – 192 k-samples, 24-bit
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: <0.5W On: <20W	Standby: <0.5W On: <20W	Standby: <0.5W On: <20W
Dimensions:	102 x 384 x 380 mm	102 x 384 x 380 mm	102 x 384 x 380 mm
Weight:	5,2 kg	5,4 kg	7,0 kg