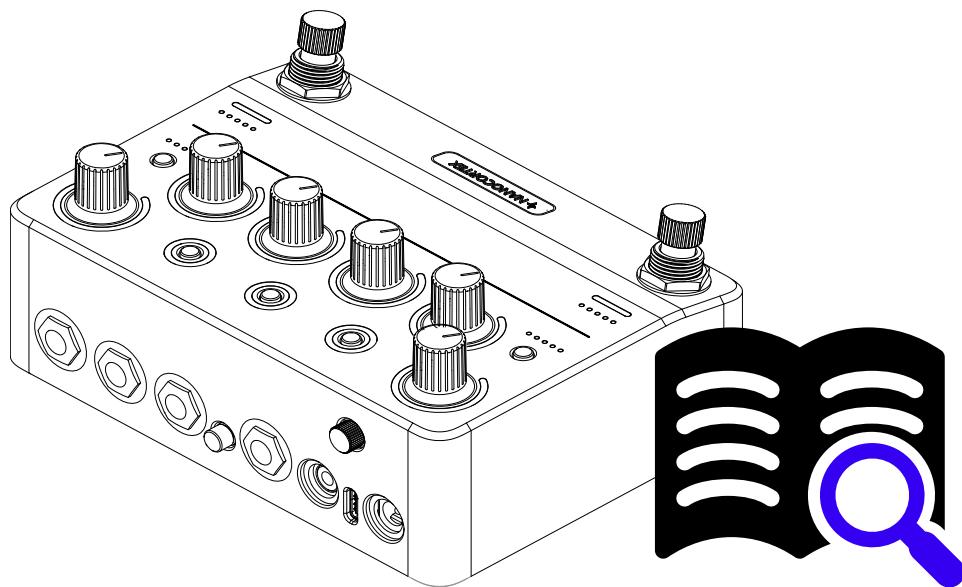


Search

**01**

Welcome to Nano Cortex

Neural DSP® Nano Cortex® User Manual [[NanOS 1.1.0](#)]



Global Features

Neural Capture, one of the hallmark features of Neural DSP's hardware, is integrated into Nano Cortex. This proprietary technology can learn and replicate the sonic characteristics of any physical amplifier, cabinet, or overdrive pedal with unprecedented accuracy.

Build Presets by adding a Neural Capture, an IR Loader, and effects to your signal chain. Deeper Preset customization and additional features are available via the Cortex Cloud app.

- Neural Capture
- 64 Preset slots
- 25 Capture slots organized in 5 banks
- 5 IR slots
- 5 Effect slots that can be used separately or combined
- MIDI support and Bluetooth connectivity
- Access to thousands of Neural Captures on the Cortex Cloud app

Cortex Cloud

Discover Users and Neural Captures using the Cortex Cloud app.

Contact Information

Neural DSP Technologies is happy to provide professional technical support via email to all registered users, absolutely free of charge. Before contacting us, we recommend searching our [knowledge base](#) to see if the answer to your question has already been published.

If you cannot find a solution to your problem, please contact support@neuraldsp.com so we can help you further.

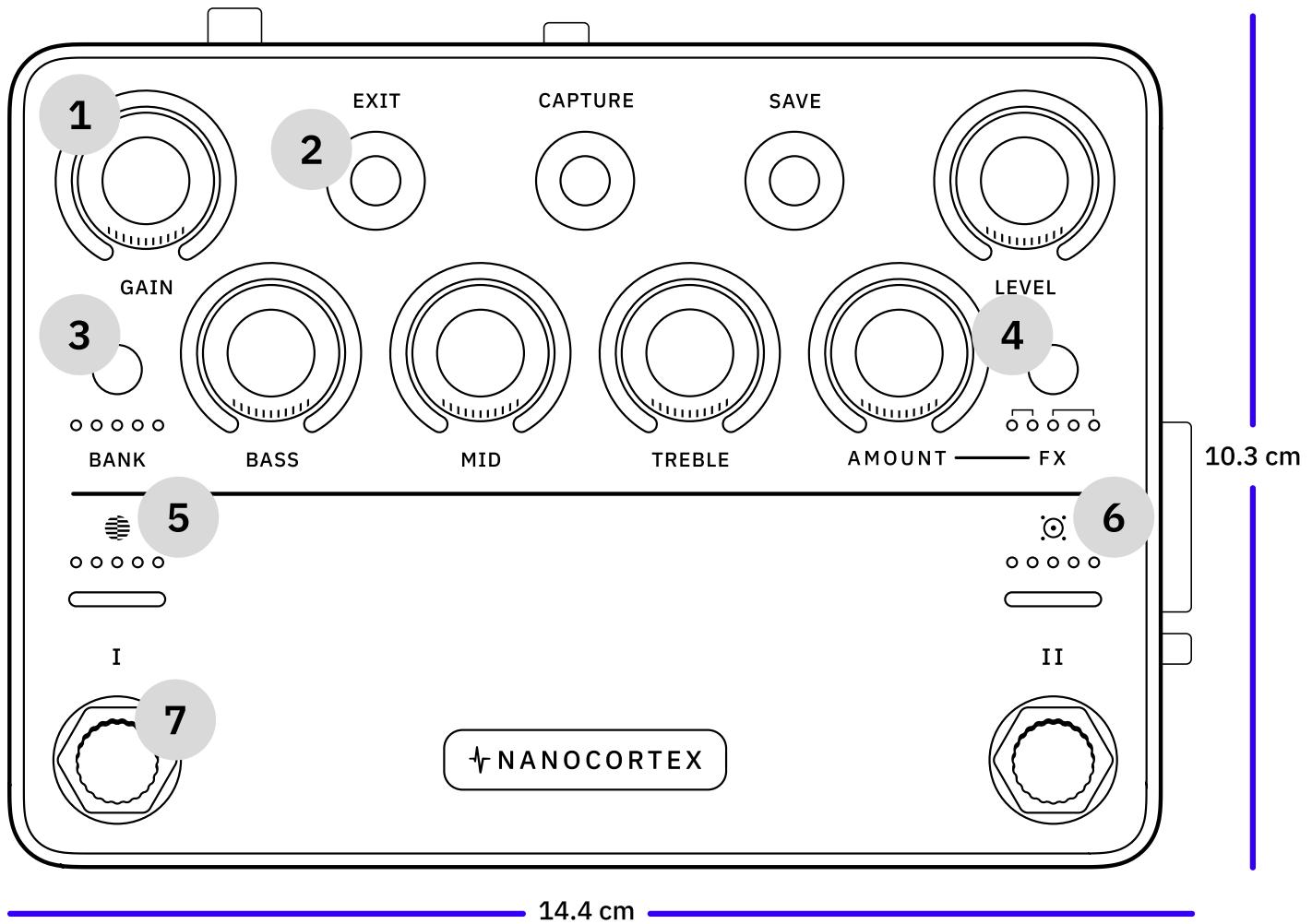
02

Overview

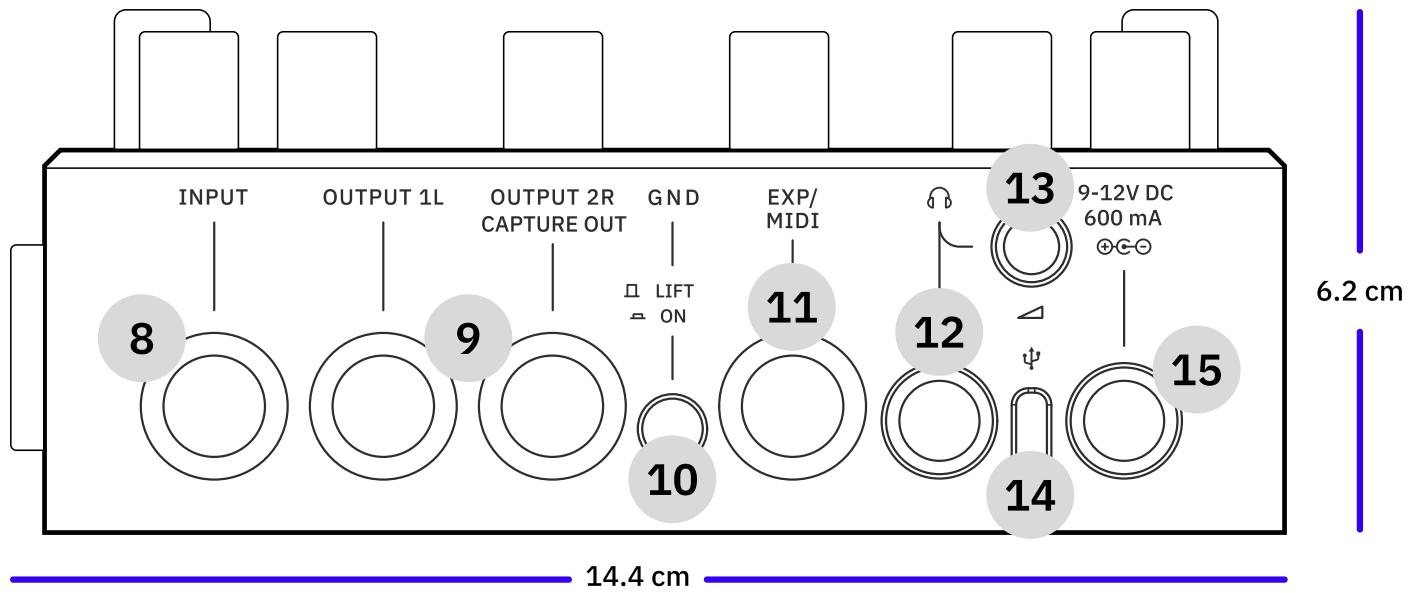
Nano Cortex weighs **620 g / 1.36 lbs** and its dimensions are **14.4 x 10.3 x 6.2 cm / 5.6 x 4.0 x 2.4"**.

Nano Cortex Dimensions

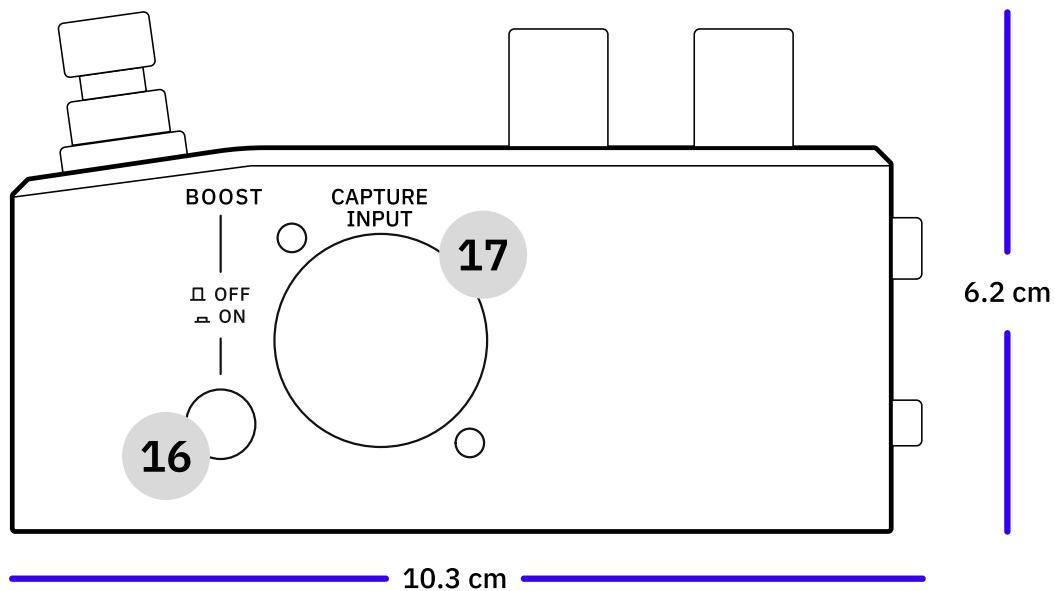
Top View



Rear View

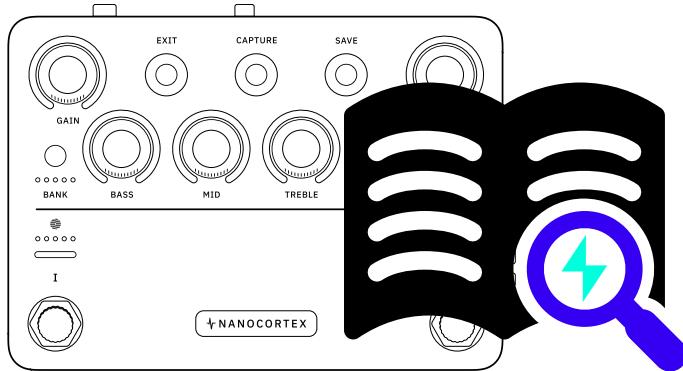


Side View



03

Quick Start Guide

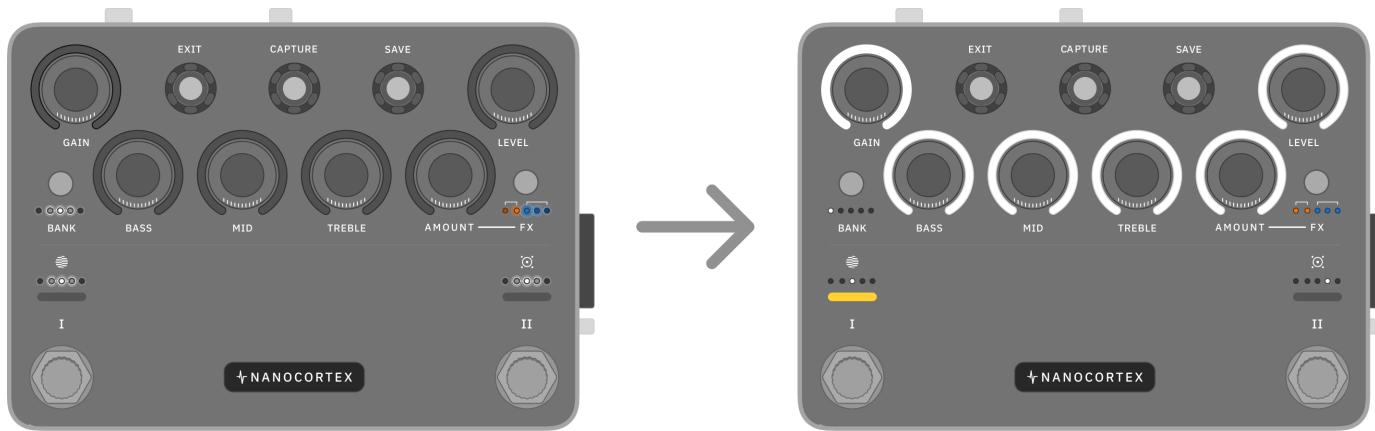


Turning on your Nano Cortex

Connect your Nano Cortex to the power source.



After a few seconds, the **BANK**, **CAPTURE**, **FX**, and **IR** LEDs will light up indicating that Nano Cortex is powering on.



Once the booting sequence completes, Nano Cortex will enter Performance Mode.

...

POWER SOURCES

Nano Cortex can be powered by two different sources:

- **EXTERNAL POWER SUPPLY:** Nano Cortex requires a center-negative power supply that provides 9-12V DC and at least 600mA, using a standard 2.1/5.5mm DC connector.
- **USB-C:** Nano Cortex can also be powered via USB-C (5V-1.5A). Connect the unit to your computer or another USB-C compliant power source with the included USB-C cable.

Quad Cortex Power Supply Compatibility

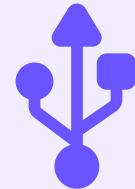
You can also power your Nano Cortex with the Quad Cortex power supply.



USB-C Compliant Power Sources

To ensure optimal performance and safety, please use a USB-C power source that complies with the following specifications:
5V-1.5A.

While connecting Nano Cortex to USB-A ports will allow for data transmission, these ports will not provide sufficient power to fully operate the device..



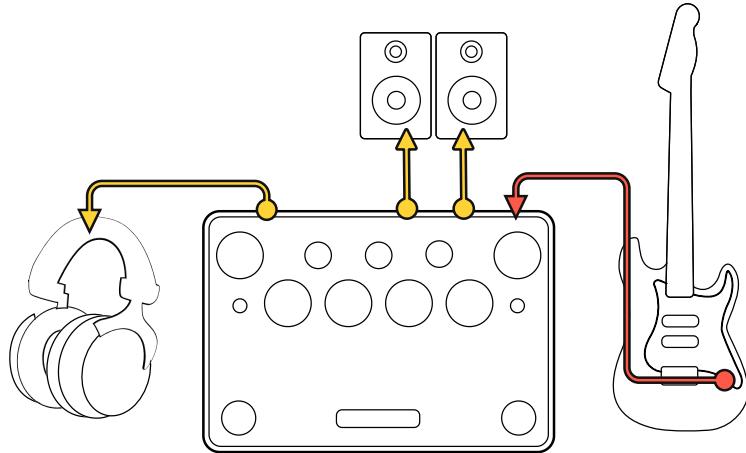
Using USB-A ports or non-compliant USB hubs may result in improper functionality. Always verify that the USB-C source meets these requirements to maintain the longevity and reliability of your device.

Turning off your Nano Cortex



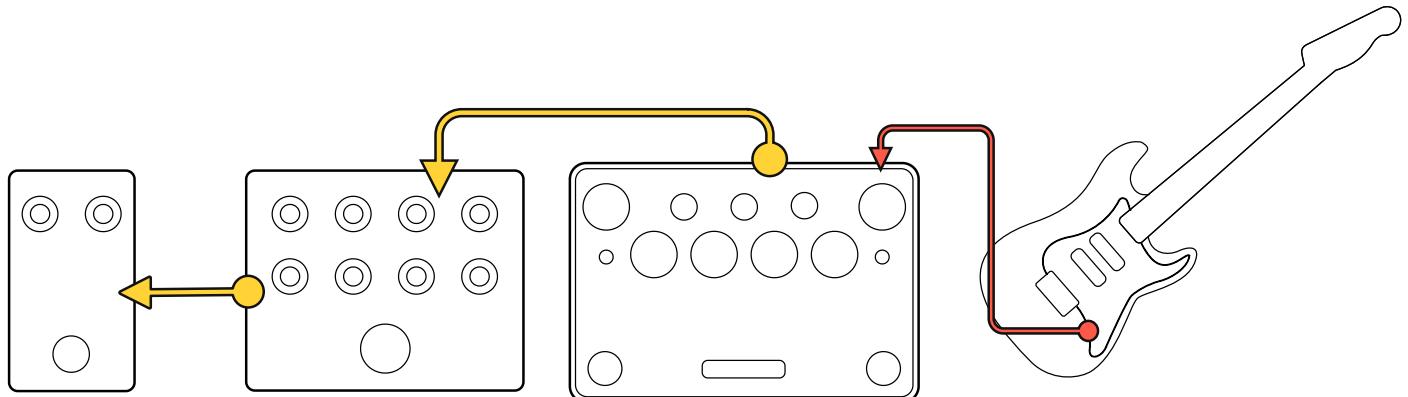
Disconnect the Nano Cortex from the power source to power off the device.

Connecting your Gear



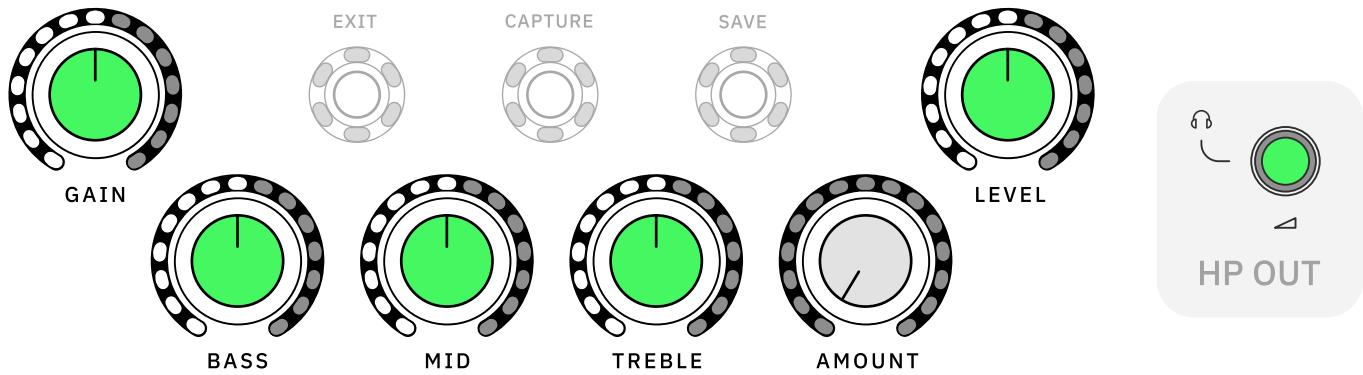
Connect your instrument to **INPUT**.

Connect your studio monitors, PA, or FRFR cabinet to **OUTPUT 1L** and **2R**. Additionally, you can connect your Headphones to **HP OUTPUT**.



If your Nano Cortex is part of a bigger pedalboard setup, use **INPUT** and **OUTPUTS 1L/2R** to place it wherever you need it in the audio chain.

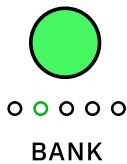
Global Controls



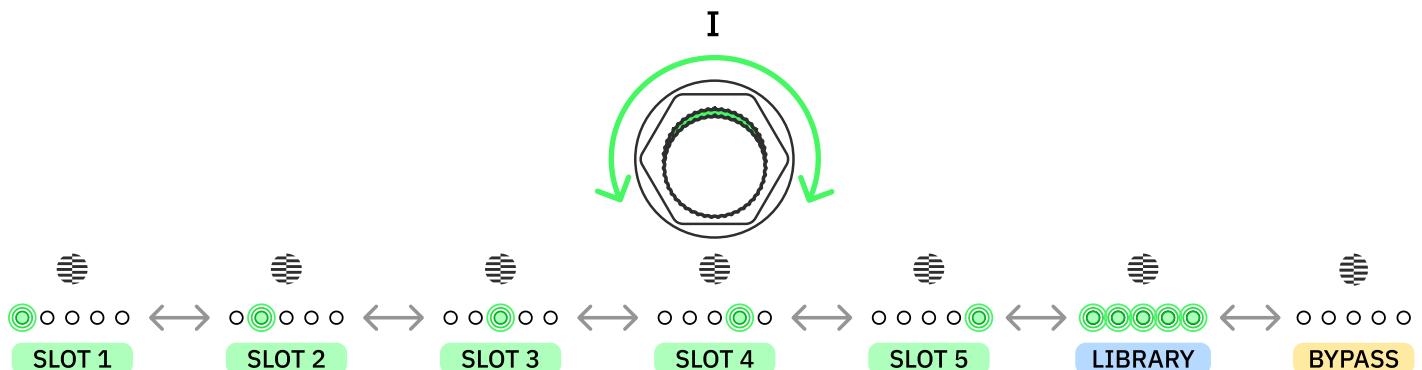
Turn **GAIN**, **BASS**, **MID**, and **TREBLE** knobs clockwise and counterclockwise to control the Capture parameters.

Turn **LEVEL** to control the master output volume (OUTPUT 1L and 2R).

Use the **HP OUT** knob on the back to control the headphones output volume.



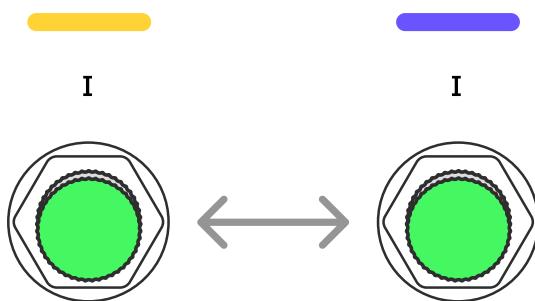
Press **BANK** to cycle through Capture banks.



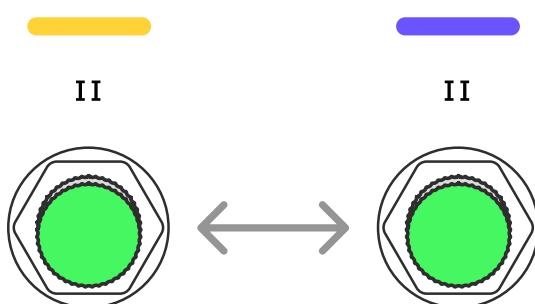
Turn **Footswitch I** clockwise or counterclockwise to navigate Capture slots.

All the LEDs will turn on when using a Neural Capture from the library that is not currently assigned to any slot.

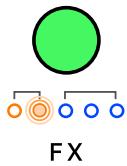
Navigate to the last position, where the LEDs are not lit, to bypass the Neural Capture.



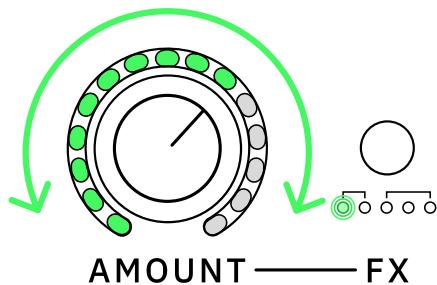
Press **Footswitch I** to toggle between Presets **IA** and **IB**. Different Presets can be assigned on the Cortex Cloud app.



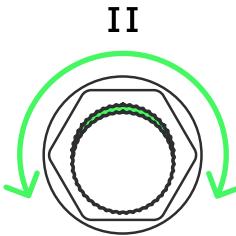
Press **Footswitch II** to toggle between Presets **IIA** and **IIB**. Different Presets can be assigned on the Cortex Cloud app.



Press **FX** to cycle through effect slots. Press-and-hold **FX** to bypass/enable the currently selected effect.



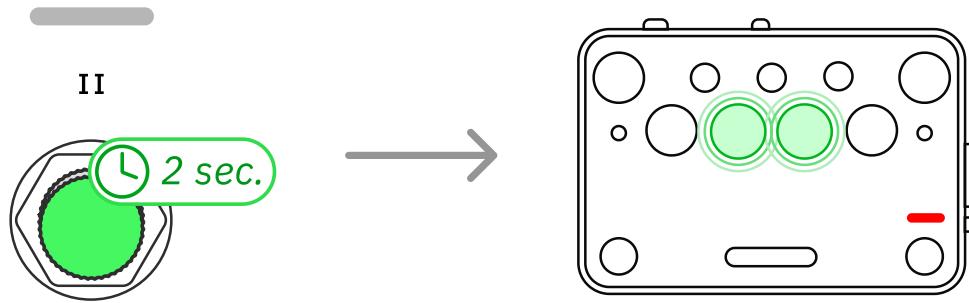
Turn the **AMOUNT** knob clockwise or counterclockwise to change how much of the selected effect is applied.



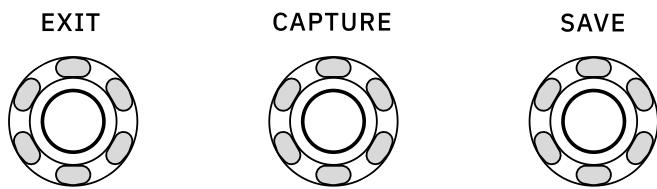
Turn **Footswitch II** clockwise or counterclockwise to navigate IR slots.

All the LEDs will turn on when using an IR from the library that is not currently assigned to any slot.

Navigate to the last position, where the LEDs are not lit, to bypass the IR Loader.

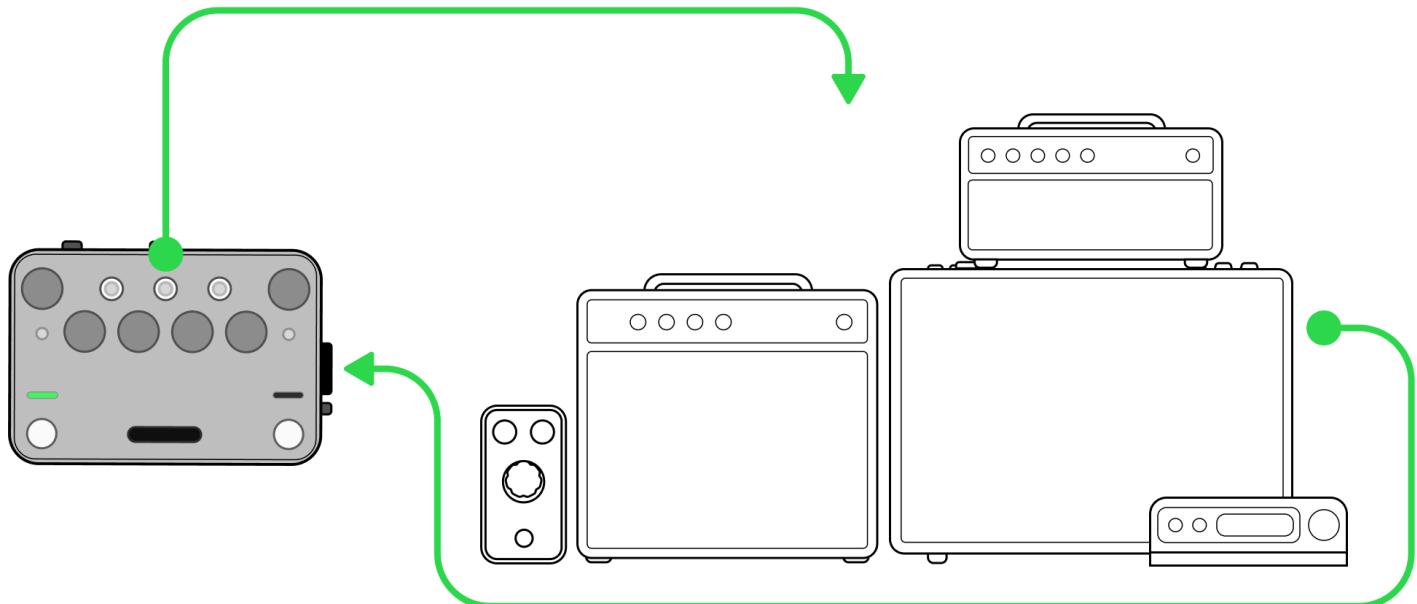


Press-and-hold **Footswitch II** for 2 seconds to access the Tuner. Press **Footswitch II** to exit the Tuner.



EXIT, **CAPTURE**, and **SAVE** buttons are reserved for the Neural Capture process, Preset saving, and Bluetooth pairing.

Neural Capture Quick Guide



Neural Capture is a powerful tool that can learn and replicate the sonic characteristics of any amplifier, cabinet, or overdrive pedal with unprecedented accuracy and realism.

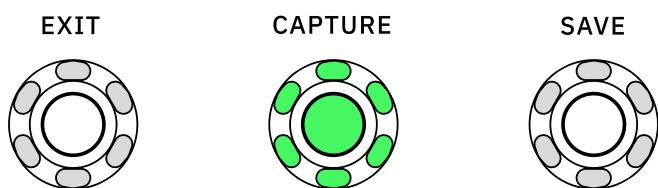
To create a Neural Capture, connect Nano Cortex to an overdrive pedal, a mic'd up cabinet, or an amplifier via a reactive load box.

Neural Capture Full Guide

Click to access a deeper overview of the Neural Capture process.

...

Quick Connection Diagram



Press **CAPTURE** to access Capture Mode. In this mode, the CAPTURE LED ring will stay on.

01 REFERENCE INSTRUMENT

Connect your instrument to **INPUT**.

02 MONITORING DEVICES

Connect your headphones to **HP OUTPUT** or your Monitor Speaker to **OUTPUT 1L**.

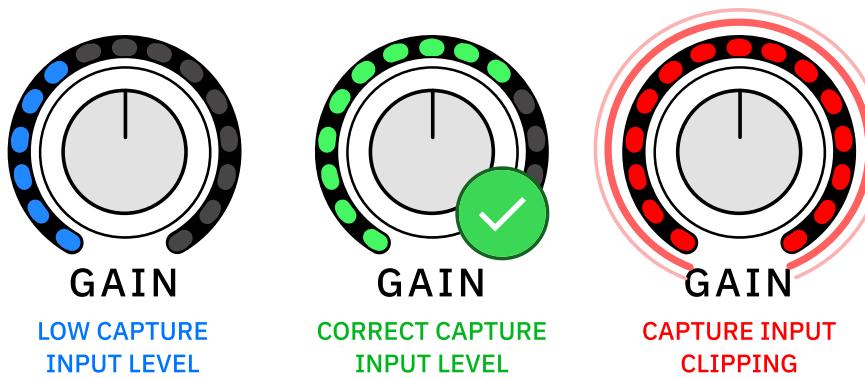
03 TARGET DEVICE

Connect the Nano Cortex's **OUTPUT 2R (CAPTURE OUT)** to the target device's input.

04 RETURN TO NANO CORTEX

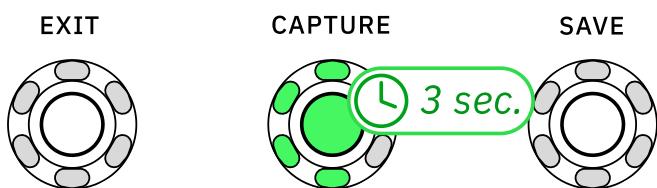
Connect the target device's output to the Nano Cortex's **CAPTURE INPUT**.

05 CAPTURE INPUT GAIN



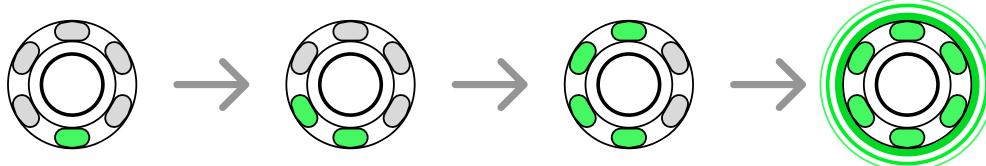
Set the CAPTURE INPUT level by adjusting the GAIN knob.

06 CAPTURE



Press-and-hold **CAPTURE** for 3 seconds to begin the Capture process.

CAPTURE

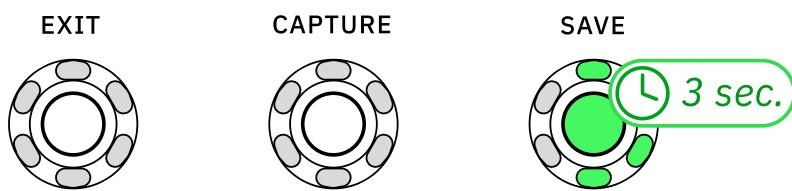


The CAPTURE LED ring will light up progressively as soon as the process begins.

07 TEST & SAVE

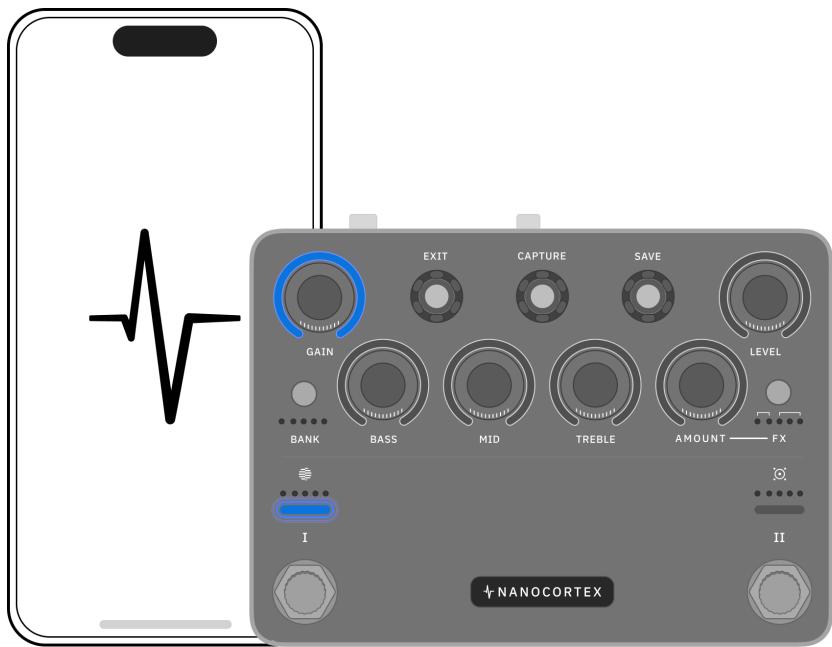


Press **Footswitch I** to toggle between the **Neural Capture** and the **Target Device**.



Press **SAVE** to store the recently created Capture. Choose a BANK, a Capture Slot, and press-and-hold **SAVE** for 3 seconds to store your Neural Capture.

Cortex Cloud App Pairing



Deeper Preset customization and additional features are available via the **Cortex Cloud app**.

Cortex Cloud App

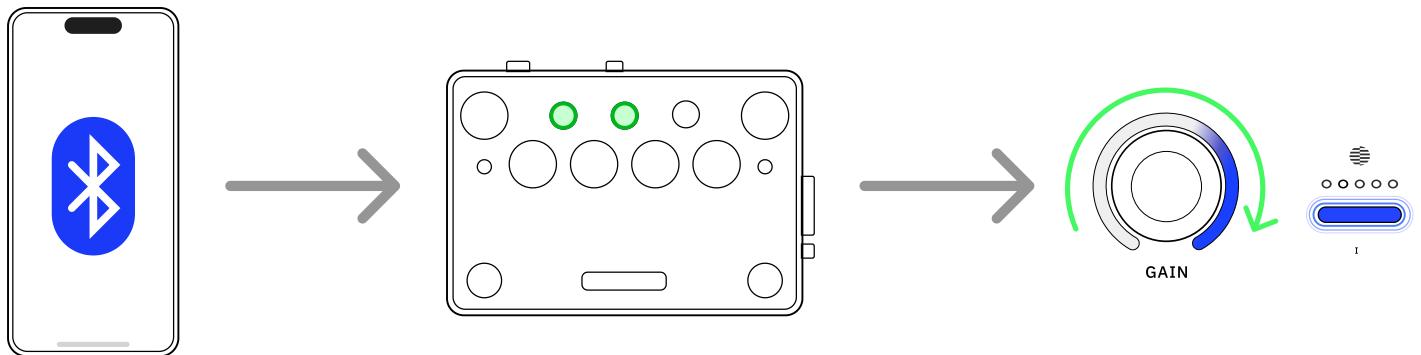
Click to access a deeper overview of the Bluetooth Pairing process.

...

BLUETOOTH PAIRING



Open the Cortex Cloud app on your smartphone, access the **Devices** menu, and tap **Add New**. Your smartphone will start searching for nearby Nano Cortex units.

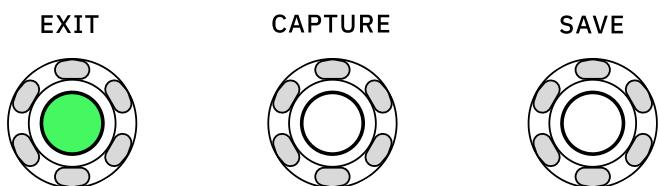


Press-and-hold **EXIT** and **CAPTURE** for 1 second to put your Nano Cortex into Pairing Mode.

The GAIN LED ring will illuminate clockwise and the Footswitch I's LED will blink slowly, indicating that Nano Cortex is in pairing mode.



Once paired, the app will show the current Nano Cortex configuration.



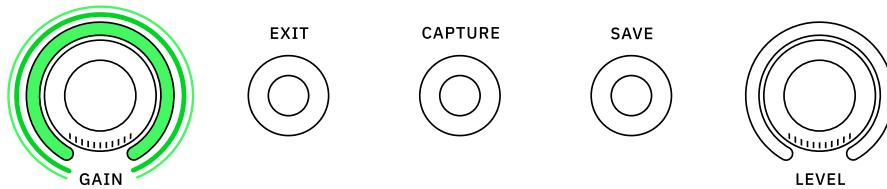
During Pairing Mode, press **EXIT** to return to Performance Mode.

I/O Clipping Alert

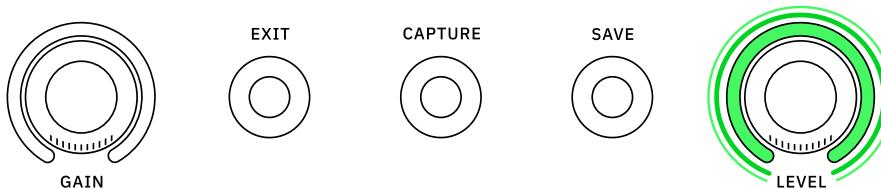
The **GAIN** and **LEVEL** knobs will indicate whenever inputs or outputs are clipping.

• • •

PERFORMANCE MODE

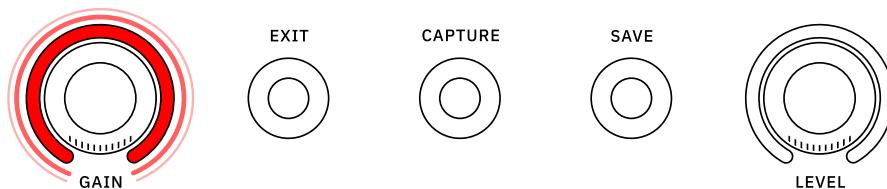


The **GAIN** Knob will blink 3 times whenever **INPUT** detects signal clipping.

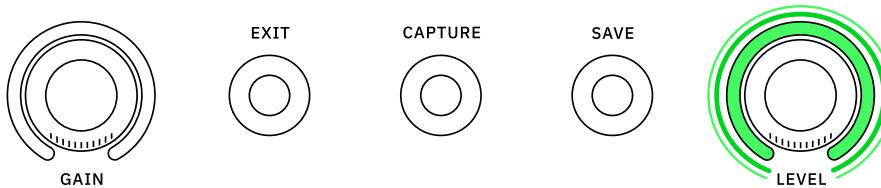


The **LEVEL** Knob will blink 3 times whenever **OUTPUTS 1L/2R** detect signal clipping.

CAPTURE MODE



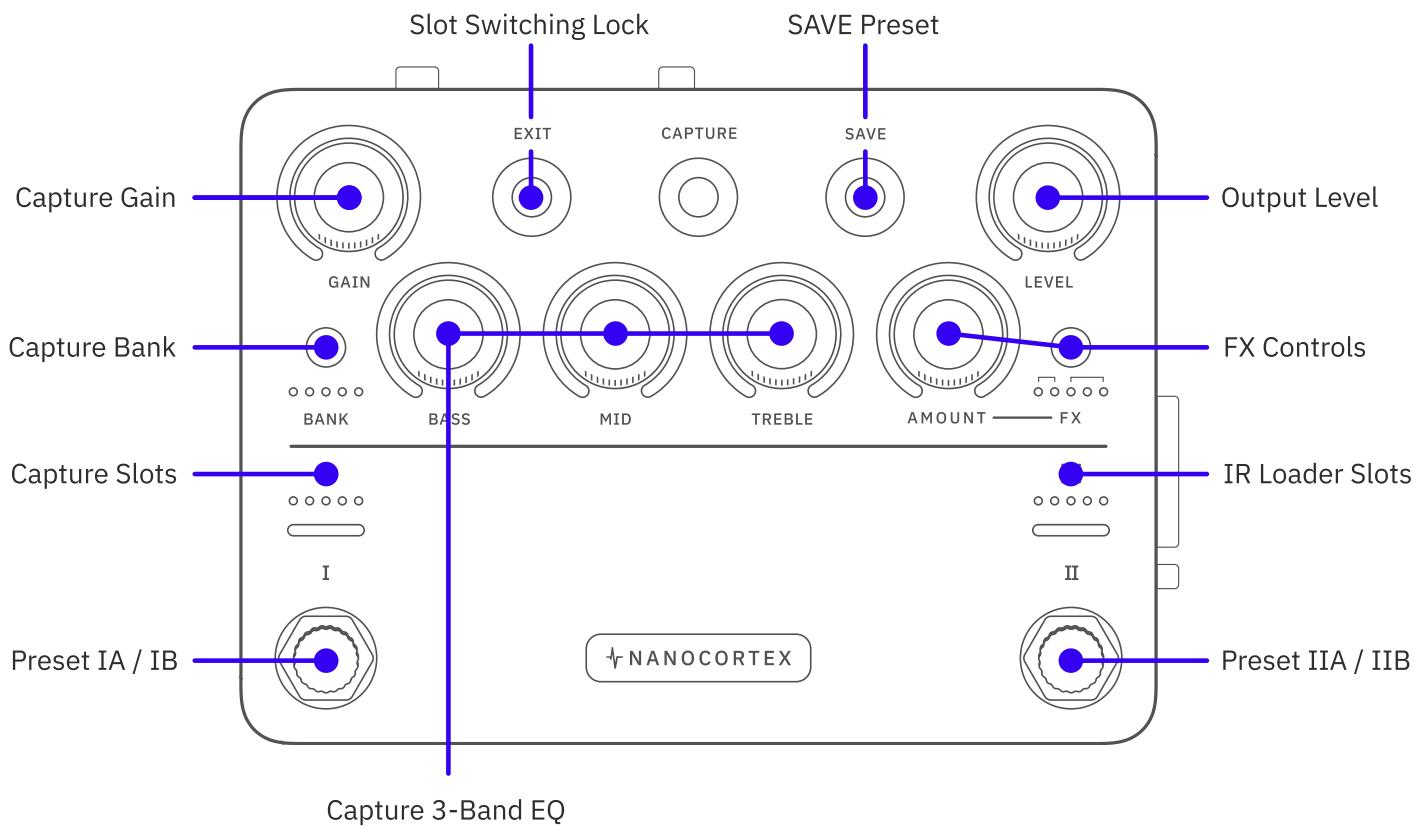
The **GAIN** Knob will turn red whenever **CAPTURE INPUT** detects signal clipping.



The **LEVEL** Knob will blink 3 times whenever **OUTPUTS 1L/2R** detect signal clipping.

04

Performance Mode

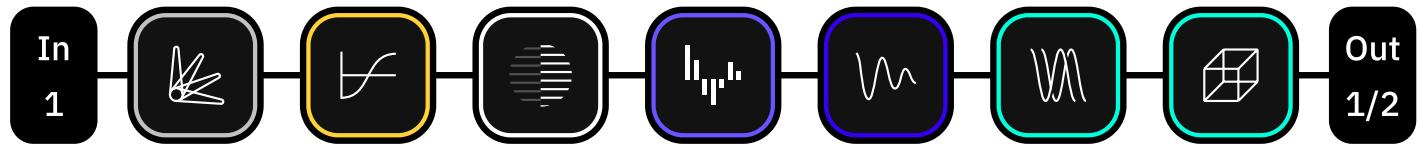


Performance Mode Access

Performance Mode allows you to play with your instrument and process your signal. Nano Cortex will access Performance Mode automatically after booting up.

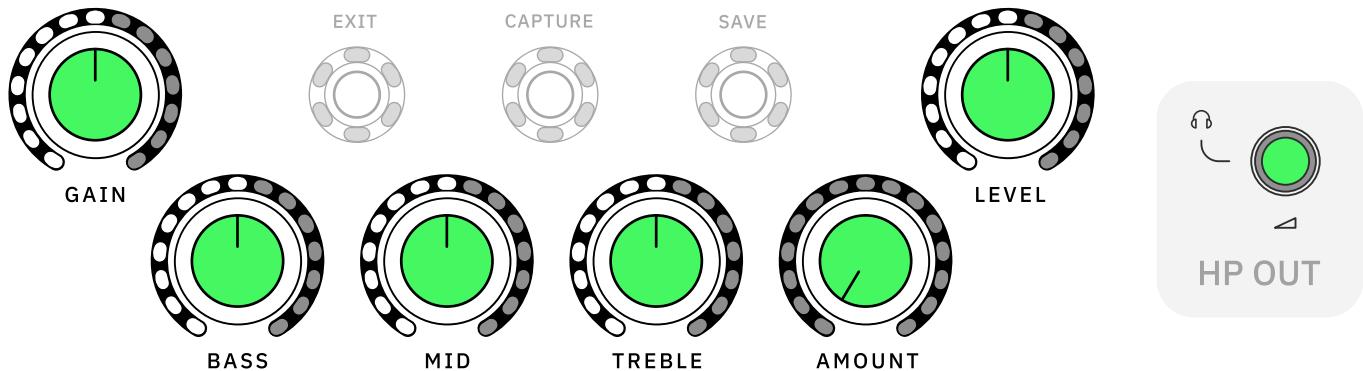
Signal Path

Nano Cortex processes your signal through a fixed audio chain consisting of different slots that can be used separately or combined.



- 2 Pre-effect slots
- 1 Neural Capture slot
- 1 IR Loader slot
- 3 Post-effect slots

Performance Mode Controls



- **GAIN**: Sets the amount of gain for the current Neural Capture.
- **BASS**: Sets the amount of bass frequencies for the current Neural Capture.
- **MID**: Sets the amount of middle frequencies for the current Neural Capture.
- **TREBLE**: Sets the amount of high frequencies for the current Neural Capture.
- **AMOUNT**: Controls the amount of the active effect that is added to the direct signal.
- **LEVEL**: Controls the master output volume (OUTPUTS 1L and 2R).

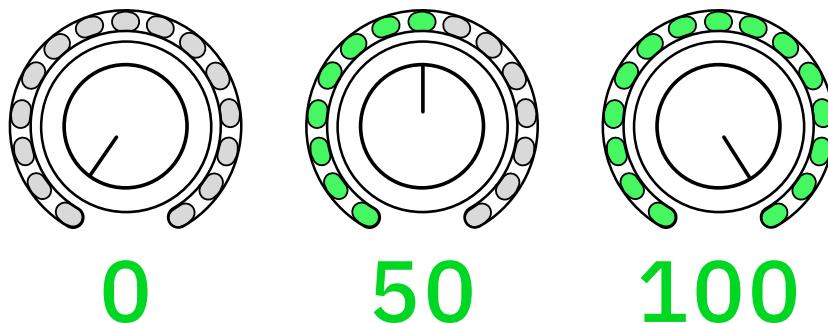


- **HP OUT**: Headphones output volume control.

...

KNOB OPERATION MODES

Turn the knobs clockwise or counterclockwise to change their values.



Nano Cortex's knobs are surrounded by LED rings, indicating their actual values regardless of the knobs' current positions.

By default, the Nano Cortex knobs adjust parameters immediately when turned. If the '**Catching Knobs Instantly**' setting is disabled on the Cortex Cloud app, Nano Cortex will operate in **Latching Mode**, where the knobs' position must match the values indicated by the LED rings before they start adjusting parameters.

Knob Operation Modes

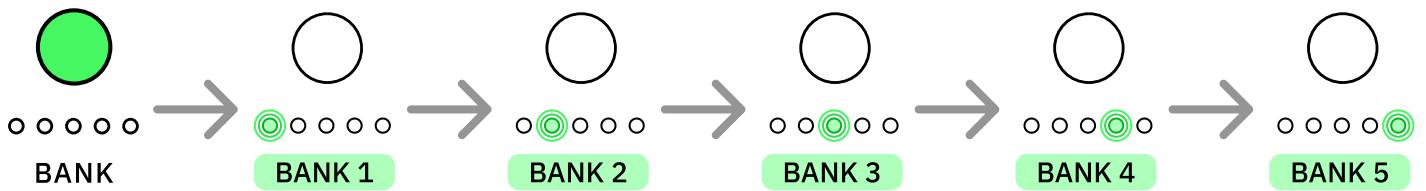
Change the knobs behavior in the Cortex Cloud settings.

Capture Library

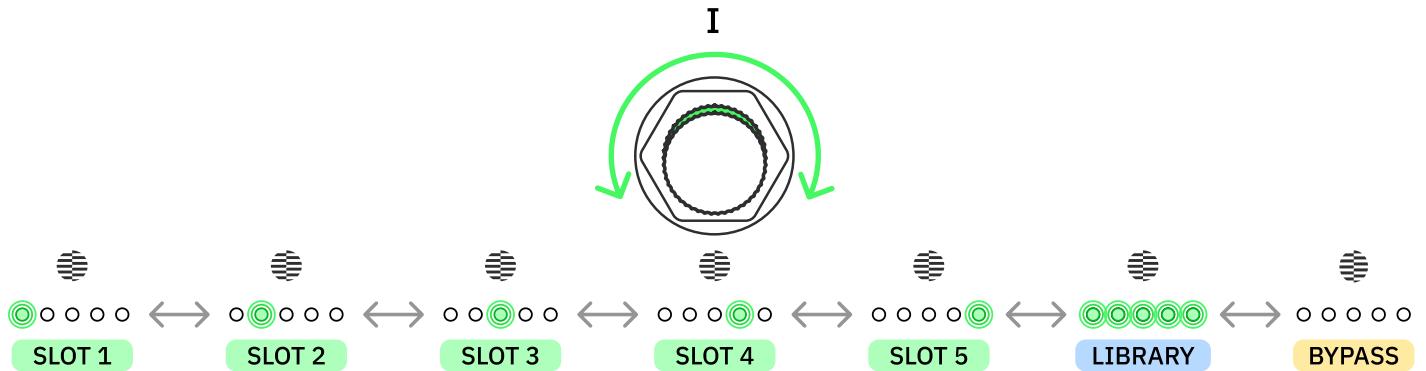
Nano Cortex includes **25 Factory Neural Captures** organized in 5 banks. Each bank can store up to 5 Neural Captures.

...

BANK/SLOT NAVIGATION



Press **BANK** to cycle Capture Banks. The LEDs will light up according to the bank selected.



Turn **Footswitch I** clockwise or counterclockwise to navigate Capture slots. The LEDs will light up according to the slot selected.

All the LEDs will turn on when using a Neural Capture from the library that is not currently assigned to any slot.

Navigate to the last position, where the LEDs are not lit, to bypass the Neural Capture.

CORTEX CLOUD LIBRARY

In addition to the 25 Factory Neural Captures, Nano Cortex can store up to **256 User Neural Captures** that can be managed via the Cortex Cloud app.

Downloading Content

Download Neural Captures and IR files via Cortex Cloud.

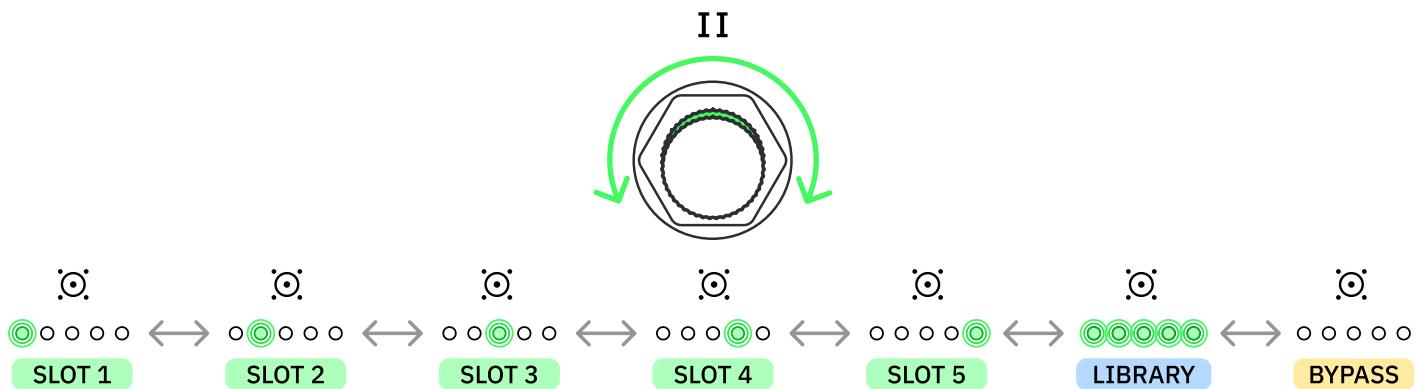


IR Loader

Nano Cortex includes Factory Impulse Responses available via the 5 IR Loader slots.

...

IR NAVIGATION



Turn **Footswitch II** clockwise or counterclockwise to navigate IR Slots. The LEDs will light up according to the slot selected.

All the LEDs will turn on when using an IR from the library that is not currently assigned to any slot.

Navigate to the last position, where the LEDs are not lit, to bypass the IR Loader.

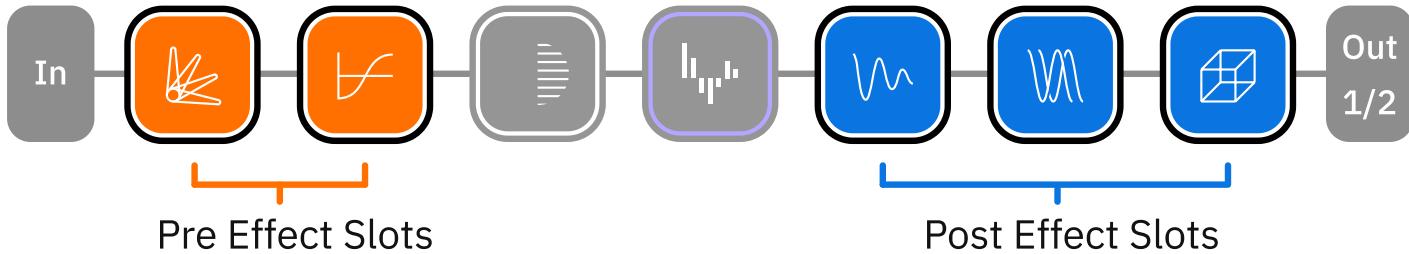
CORTEX CLOUD LIBRARY

In addition to the 10 Factory Impulse Responses, Nano Cortex can store up to **256 User Impulse Responses** that can be added via the Cortex Cloud website. Uploaded IR files will be stored in the "User Impulse Responses" folder.

Downloading Content

Download Neural Captures and IR files via Cortex Cloud.

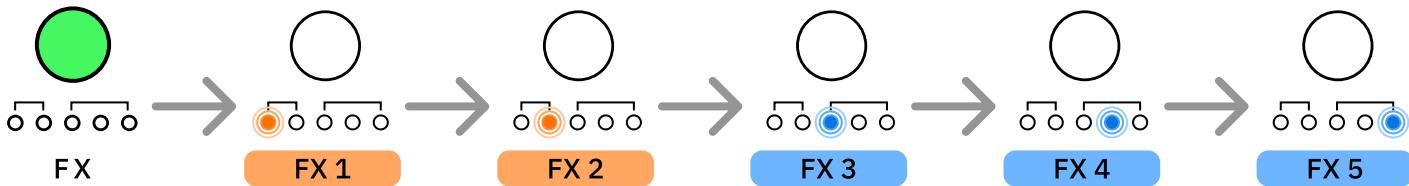
Effects



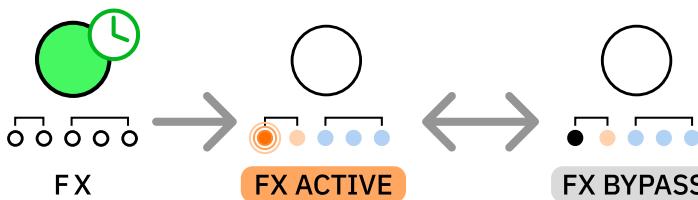
Nano Cortex includes **5 effect slots** that can be used separately or combined.

...

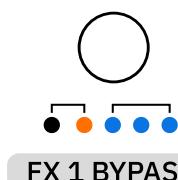
EFFECT SLOTS NAVIGATION



Press **FX** to cycle through effects slots. LEDs will blink indicating the slot that is currently selected.



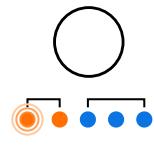
Press-and-hold **FX** to bypass/engage the currently selected effect slot. The LEDs will turn on/off reflecting their current state:



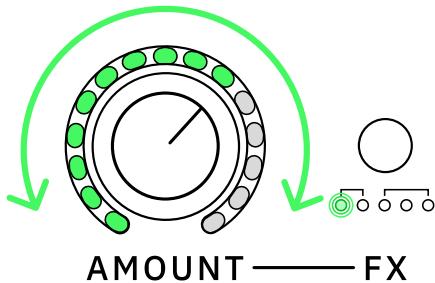
Bypassed effect slots will be turned off.



Engaged effect slots will be turned on.



The **currently selected effect slot** will blink.



Turn the **AMOUNT** knob clockwise or counterclockwise to change how much of the selected effect is applied.

...

AMOUNT KNOB BEHAVIOR

Depending on the effect slot selected, the AMOUNT knob will control different parameter values:

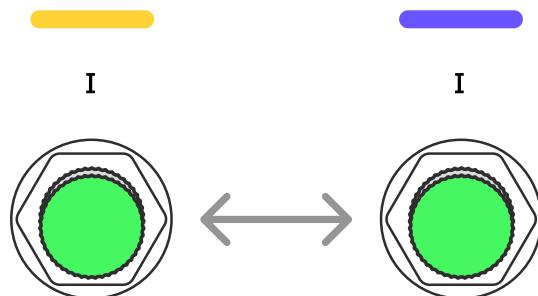
- **EFFECT 1:** Noise Gate. The AMOUNT knob will control the NOISE REDUCTION value.
- **EFFECT 2:** Transpose. The AMOUNT knob will control the SEMITONE value.
- **EFFECT 3:** Modulation. The AMOUNT knob will control the MIX value.
- **EFFECT 4:** Delay. The AMOUNT knob will control the MIX value.
- **EFFECT 5:** Reverb. The AMOUNT knob will control the MIX value.

Switching & Saving Presets

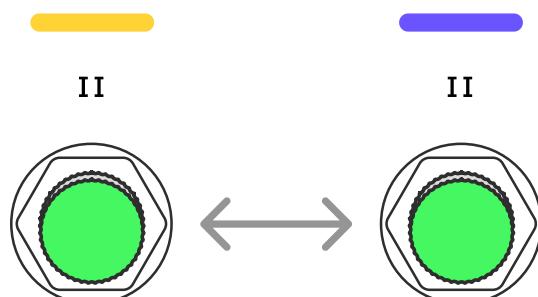
By default, Nano Cortex offers quick access to four Presets that can be customized without using the Cortex Cloud app.

• • •

SWITCHING PRESETS



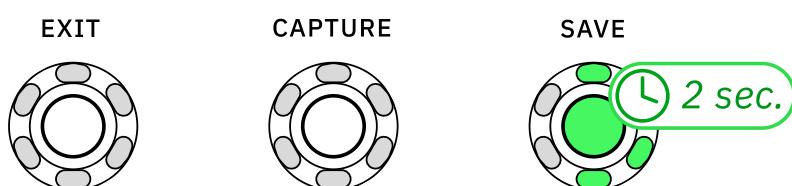
Press **Footswitch I** to toggle between Presets **IA** and **IB**.



Press **Footswitch II** to toggle between Presets **IIA** and **IIB**.

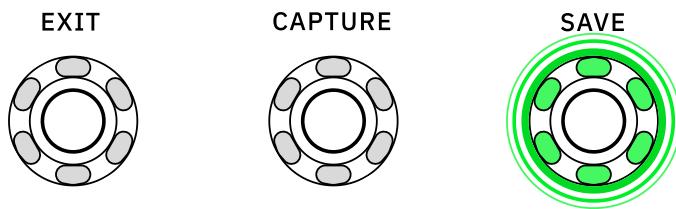
Neural Capture, IR Loader, and Effect slots will update their values accordingly. Different Presets can be configured on the Cortex Cloud app.

SAVING PRESETS

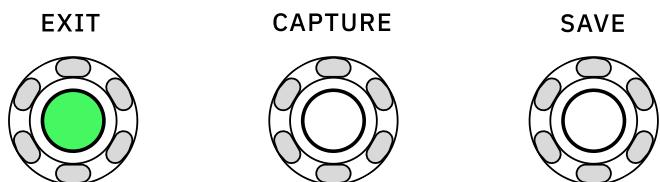


Press-and-hold **SAVE** for 2 seconds to overwrite the current Preset settings.

UNSAVED CHANGES



The **SAVE** LED ring will blink slowly whenever the current active Preset has unsaved changes.



Press **EXIT** to undo unsaved changes.

Footswitch Assignments

Customize and assign Presets on the Cortex Cloud app.

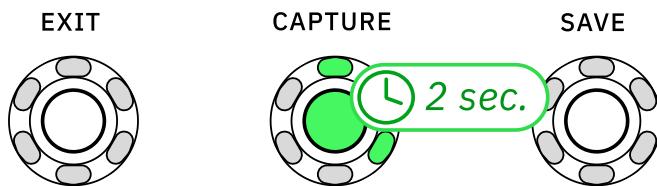


Preset Operation Modes

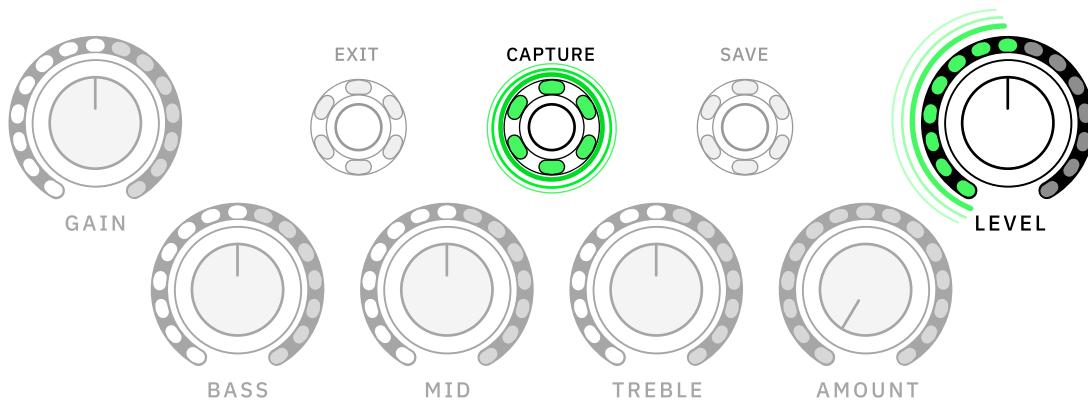
Switch between 4-Preset and 2-Preset modes via Cortex Cloud.



Capture Volume

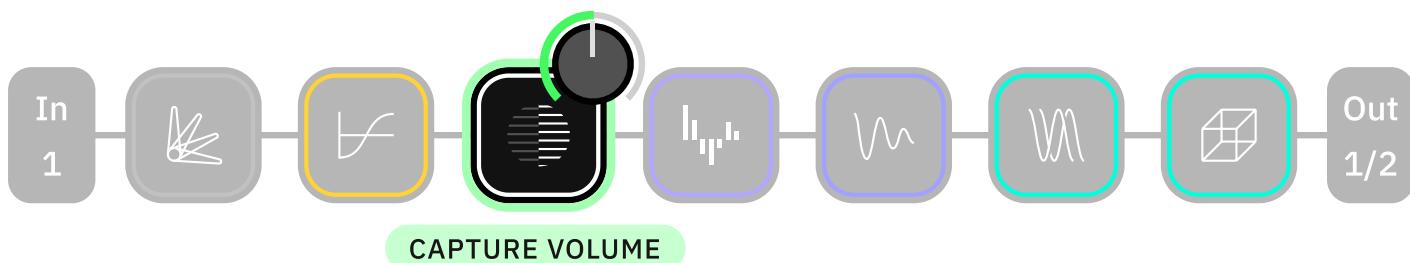


Press-and-hold **CAPTURE** for 2 seconds to enter Capture Volume Mode.



In this mode, the **CAPTURE** and **LEVEL** LED rings blink slowly.

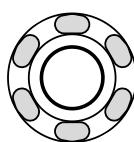
LEVEL KNOB BEHAVIOR



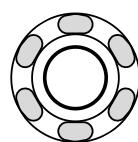
Turn the **LEVEL** knob to control the output volume of the Capture in the signal chain from -24dB to +12dB (0.0dB by default).

The **LEVEL** knob will operate in **Latching Mode**. Its position must match the value indicated by its LED ring before it starts adjusting the volume.

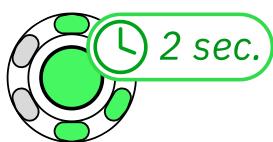




EXIT

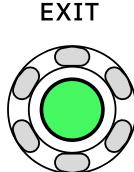


CAPTURE



SAVE

Press-and-hold **SAVE** for 2 seconds to overwrite the current Preset settings.



EXIT



CAPTURE

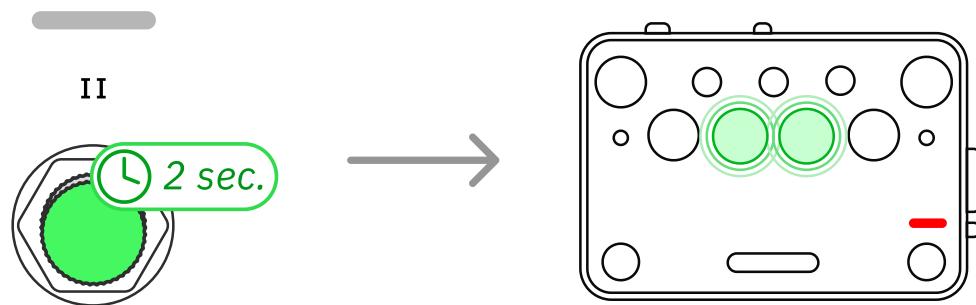


SAVE

Press **EXIT** to deactivate Capture Volume Mode.

Tuner

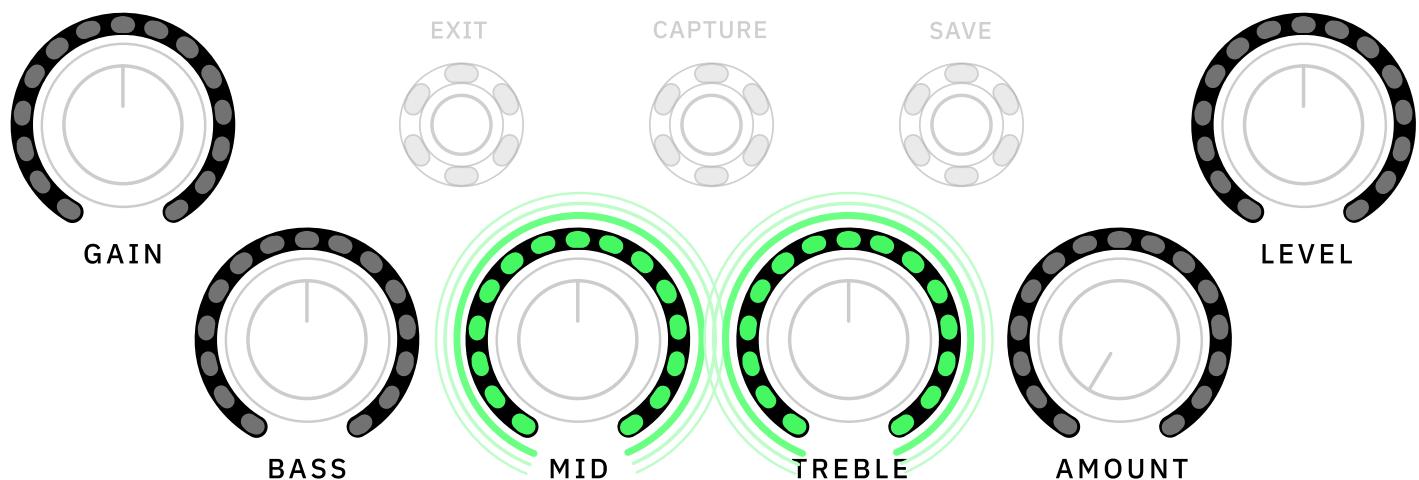
Nano Cortex features a chromatic tuner. It works by detecting the note being played and then displaying its pitch deviation on the LED rings.



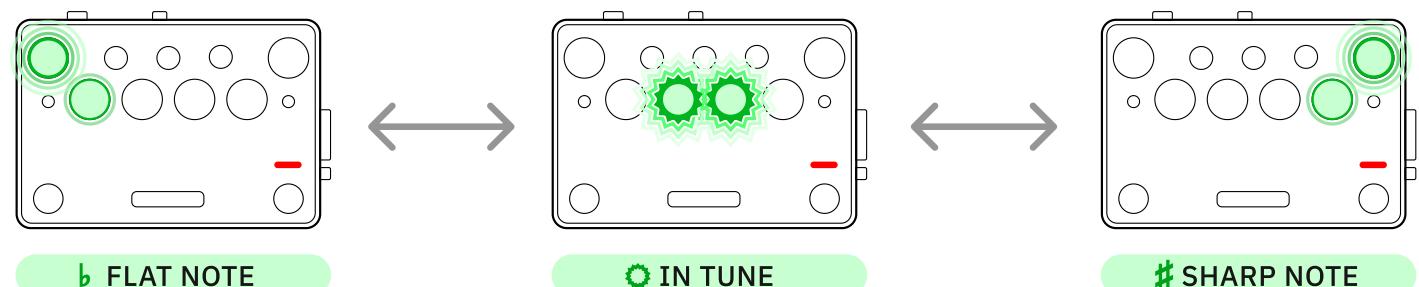
While in Performance Mode, press-and-hold **Footswitch II** to access the Tuner.

...

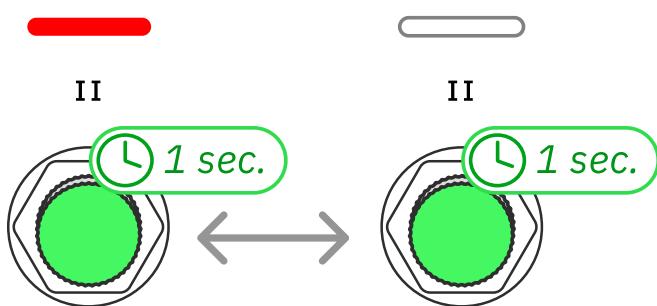
TUNING DISPLAY



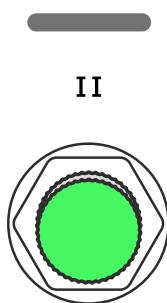
The **GAIN**, **BASS**, **MID**, **TREBLE**, **AMOUNT**, and **LEVEL** LED rings will illuminate when a note is played, creating a crossfade animation that reflects the current pitch of the note (-/+ 50 cents).



The crossfade moves towards the left when the note is flat and to the right when it is sharp. When the note is in tune, **MID** and **TREBLE** will blink quickly.



Press-and-hold **Footswitch II** for 1 second to **mute/unmute** the input signal when the Tuner is engaged.



Press **Footswitch II** to exit the Tuner.

Tuner Synchronization

When the Tuner is engaged on the Nano Cortex, it will automatically display on the Cortex Cloud app. Similarly, opening the Tuner on the Cortex Cloud app will activate it on the Nano Cortex.



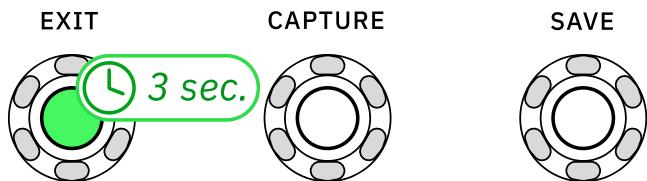
Tuner Display on the Cortex Cloud App

Click to check how the Tuner works on the Cortex Cloud app.

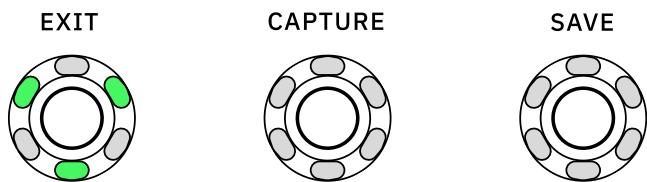


Parameter Lock

It's possible to temporarily disable the rotary functionality of knobs and footswitches to avoid unwanted parameter switching when performing.



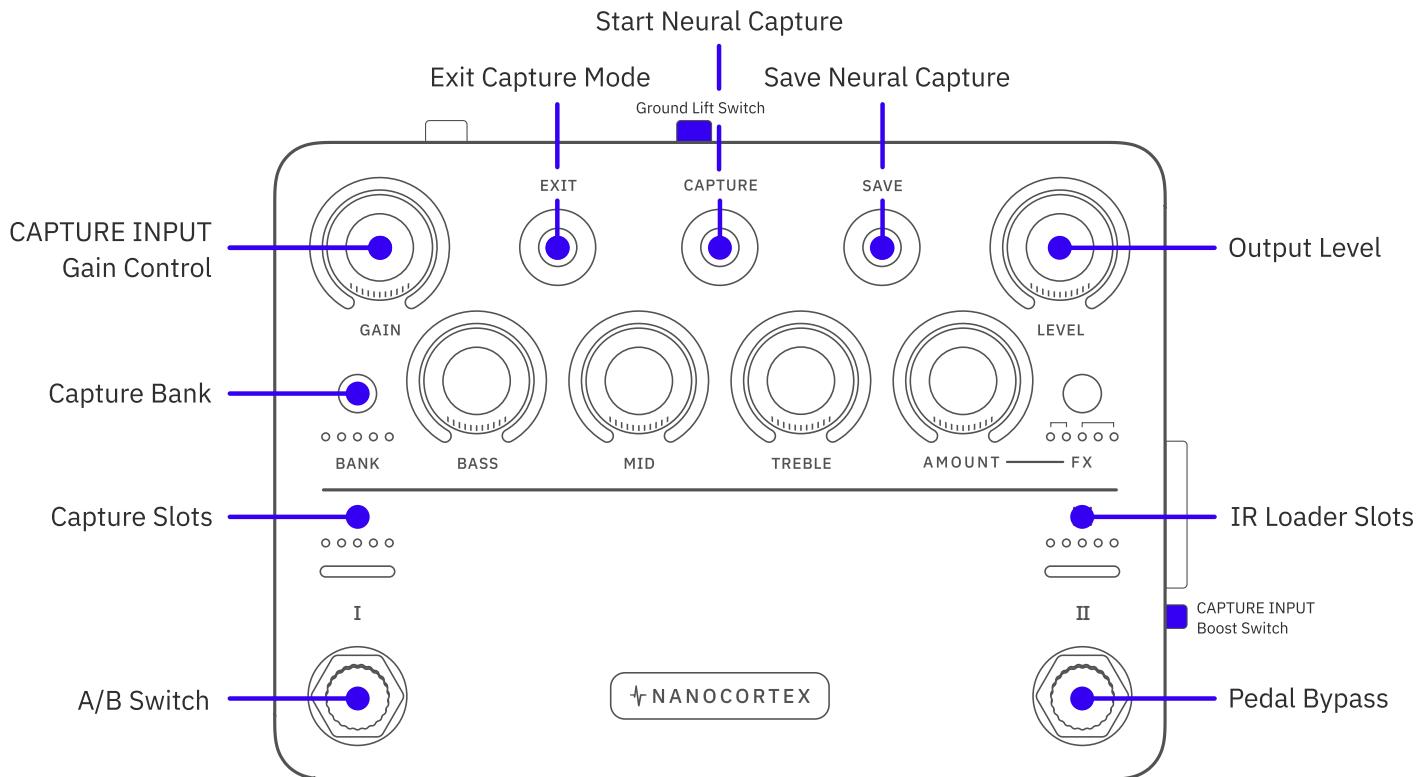
Press-and-hold **EXIT** for 3 seconds to toggle the Parameter Lock.



The **EXIT** LED ring will indicate when the Parameter Lock is enabled.

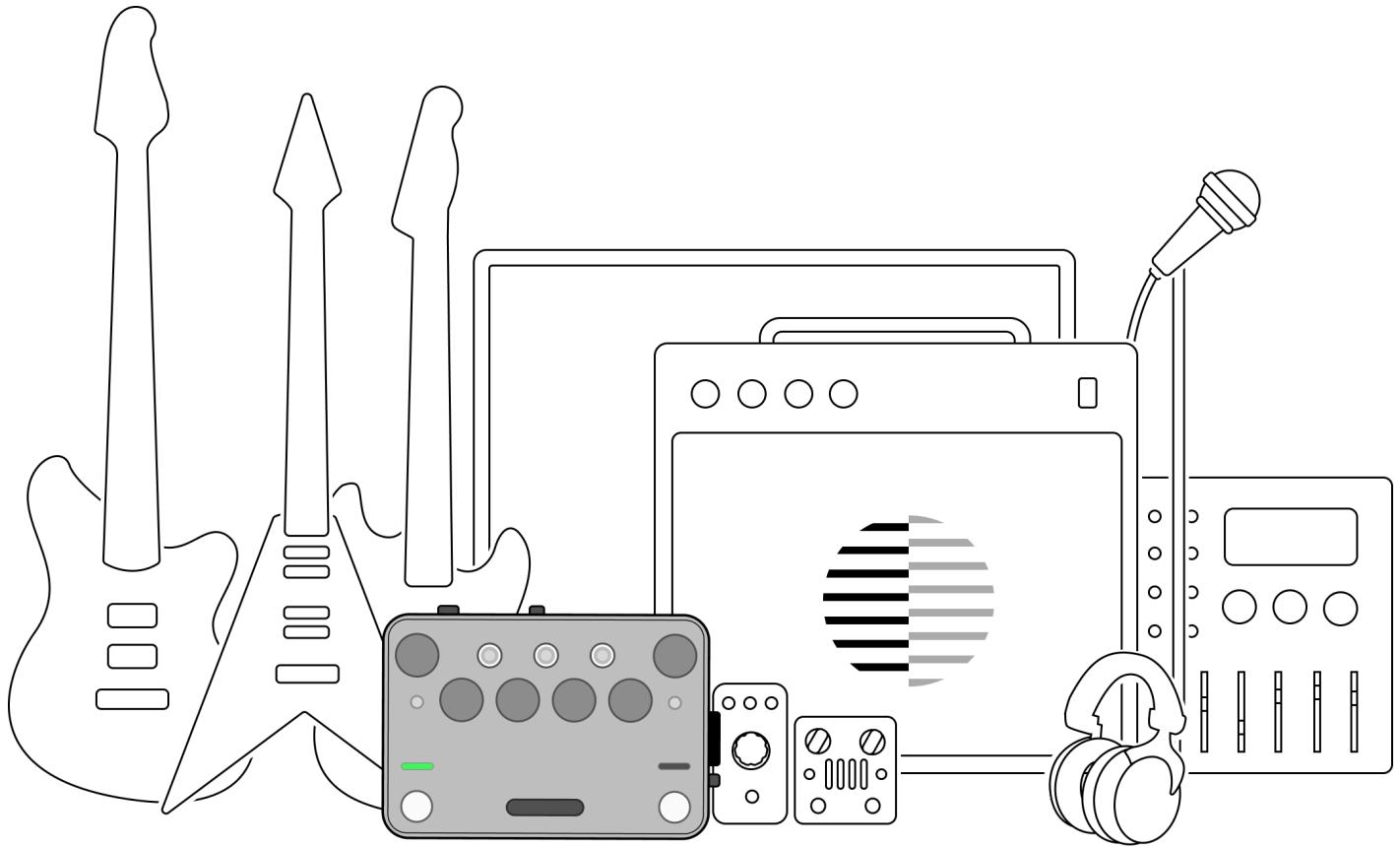
05

Capture Mode



What is Neural Capture?

Neural Capture is a powerful tool that can learn and replicate the sonic characteristics of any amplifier, cabinet, or overdrive pedal with unprecedented accuracy and realism.



Creating a new Neural Capture is a procedure that can be completed on Nano Cortex without using the Cortex Cloud app.

To create a Neural Capture, you need to be able to connect an overdrive pedal, mic up a cabinet, or connect an amplifier via a reactive load box.

Neural Capture is a snapshot of a real device setup including the microphone, therefore the placement of the microphone with respect to the cabinet is also something you need to consider.

Nano Cortex's CAPTURE INPUT supports **dynamic microphones**. Condenser microphones will need an external preamp to be powered.

TUBE AMPLIFIER WARNING

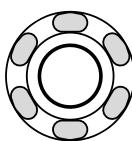
Connecting the speaker output of a tube amplifier straight to Nano Cortex could **damage** both devices. Ensure you either use:

- A **D. I. Out** and your amplifier is still connected to a cabinet.
- A **Reactive Load Box** between the target device and Nano Cortex.

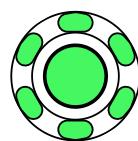


Capture Mode Access

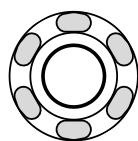
EXIT



CAPTURE

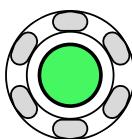


SAVE

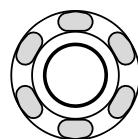


Press **CAPTURE** to access Capture Mode. In this mode, the CAPTURE LED ring will stay on.

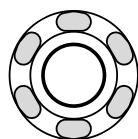
EXIT



CAPTURE



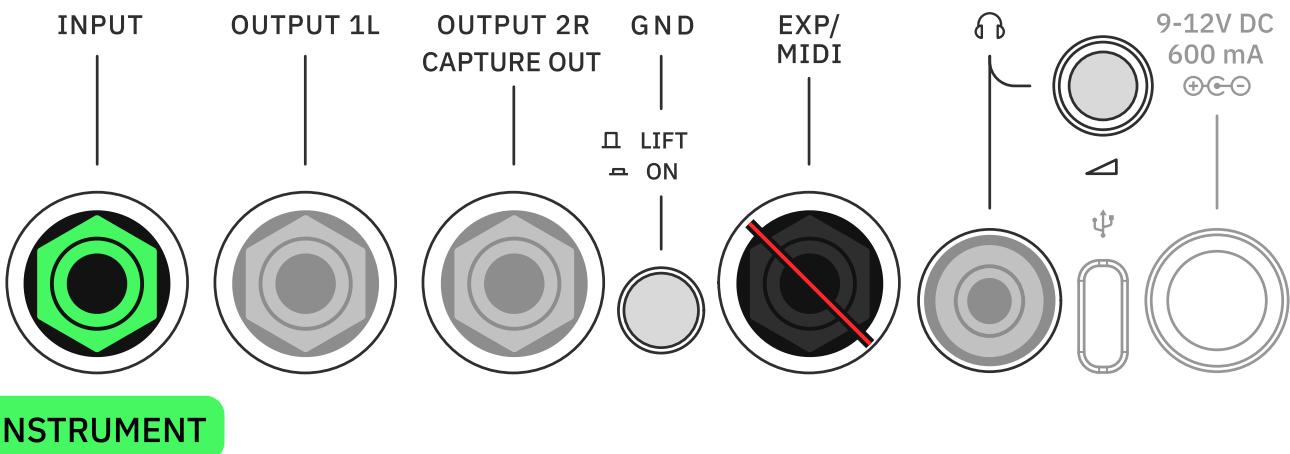
SAVE



Press **EXIT** to return to Performance Mode.

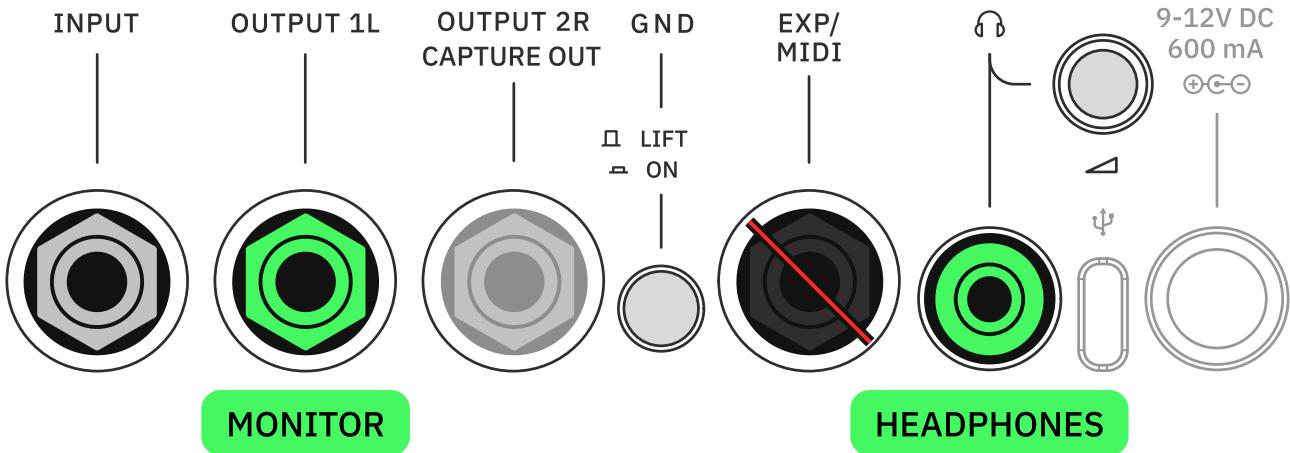
Connection Diagram

01 REFERENCE INSTRUMENT



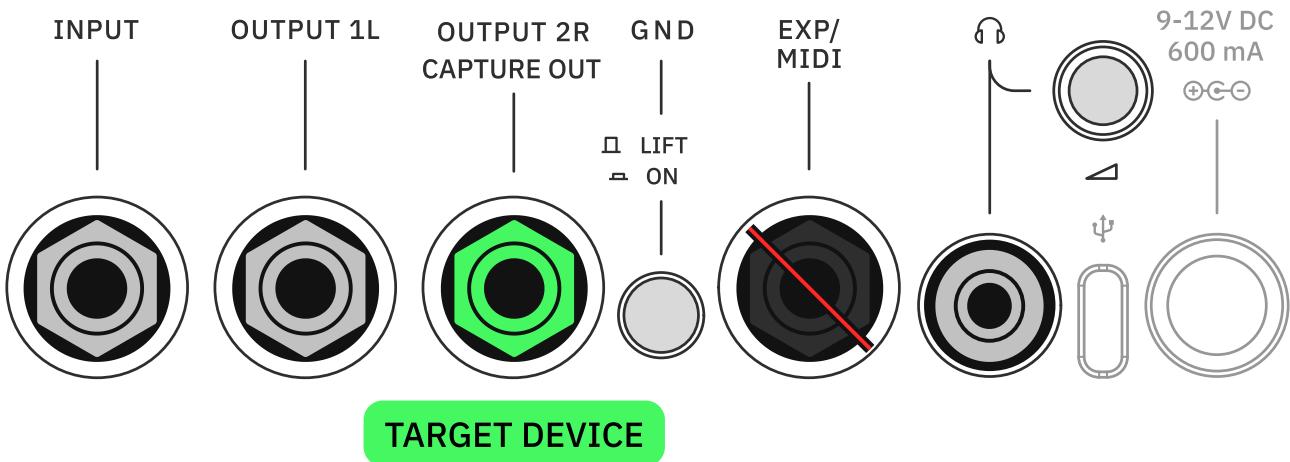
Connect your instrument to **INPUT 1**.

02 MONITORING DEVICES



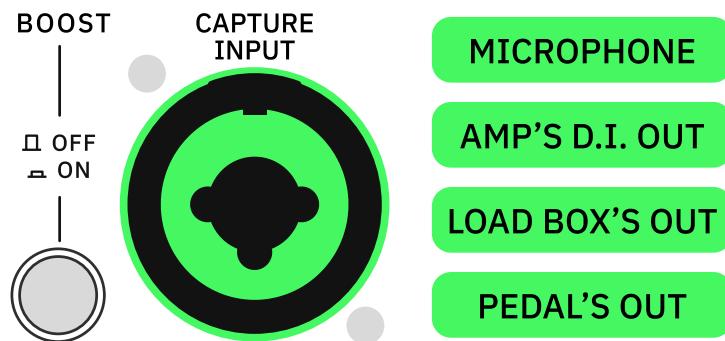
Connect your headphones to **HP OUTPUT** or your Monitor Speaker to **OUTPUT 1L**.

03 TARGET DEVICE

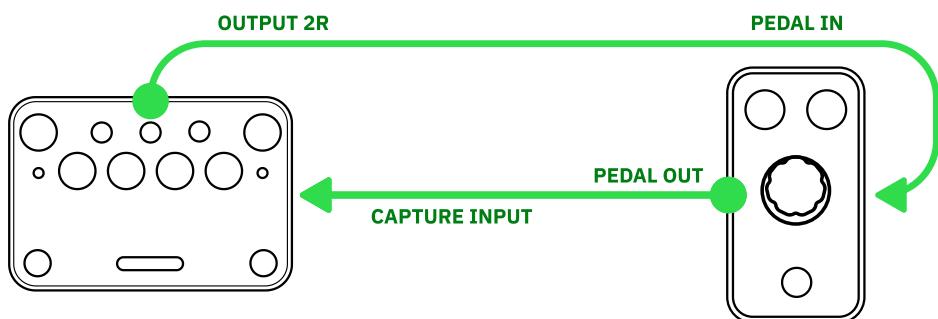


Connect the Nano Cortex's **CAPTURE OUT** (OUTPUT 2R) to the target device's input.

04 RETURN TO NANO CORTEX

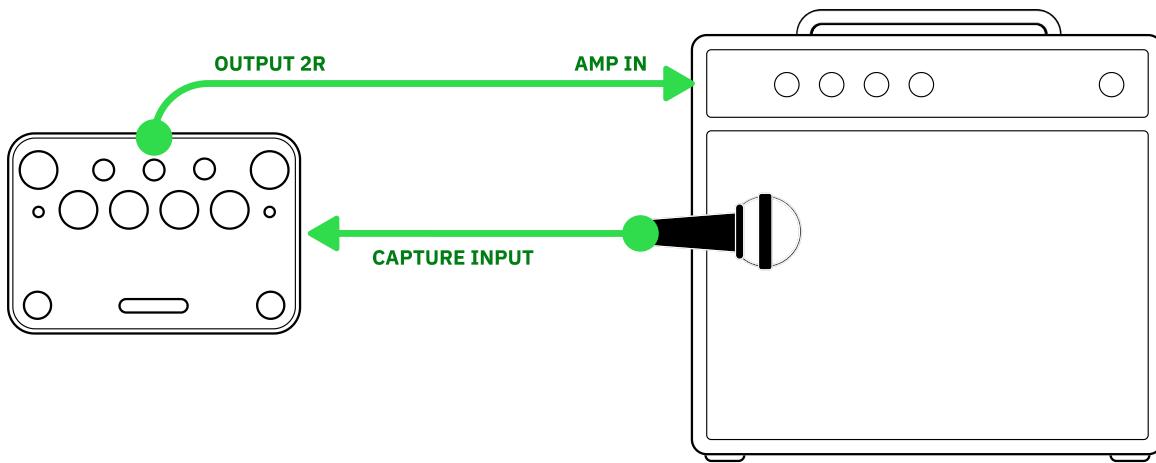


OVERDRIVE PEDAL



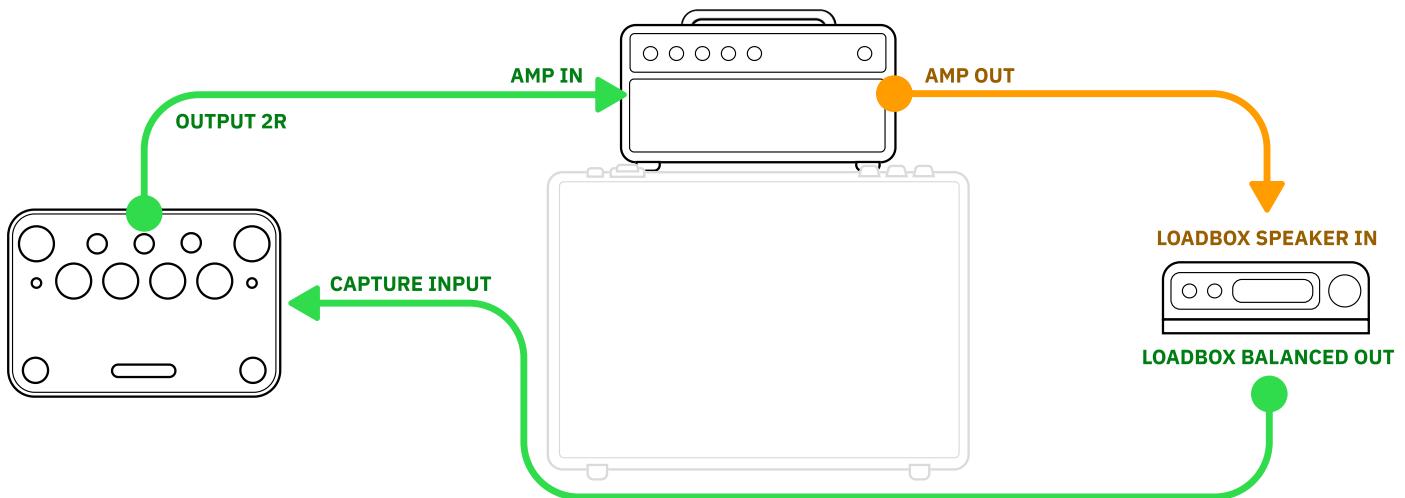
If you are capturing an overdrive pedal, connect its output directly to the Nano Cortex's **CAPTURE INPUT**.

AMP+CAB / COMBO AMP



Position a microphone in front of the speaker cabinet and connect it to Nano Cortex's CAPTURE INPUT. Nano Cortex's **CAPTURE INPUT** supports dynamic microphones. Condenser microphones need an external preamp to be powered.

AMP HEAD (NO SPEAKER)



If you are capturing an amplifier without built-in speakers or just an amp head, connect the amp's 'Speaker Output' to a **Reactive Load Box**. Then, connect the Load Box's balanced output to the Nano Cortex's **CAPTURE INPUT**.

05 SETUP REVIEW

Once everything is connected correctly, you can proceed with the calibration settings.

Neural Capture Calibration Settings

Capture Mode will give you access to the calibration settings.

Ensure the microphone position (if you are using a microphone in front of a speaker cabinet) and the target device's settings are set as desired, and the **GAIN** knob on the Nano Cortex is at the minimum position (0%).

...

MAIN CONTROLS

- **GAIN**: Turn it clockwise to increase the CAPTURE INPUT gain up to +24dB. Its LED ring is a meter that measures the CAPTURE INPUT
- **LEVEL**: Controls the overall output volume of the Nano Cortex (OUTPUT 1L and 2R).
- **FOOTSWITCH II**: Turn it clockwise or counterclockwise to navigate IR slots. The LEDs will light up according to the slot selected. Navigate to the last position, where the LEDs are not lit, to bypass the IR Loader.
- **CAPTURE**: Press-and-hold for 3 seconds to begin the Capture process.

ADDITIONAL CONTROLS

- **HP LEVEL**: Headphones output volume control.
- **GND SWITCH**: Toggles ON/OFF the ground lift on OUTPUTS 1L and 2R. This feature helps to reduce unwanted noise by interrupting the ground loops coming from external sources.
- **BOOST SWITCH**: Toggles ON/OFF the analog boost circuit. When enabled, it boosts the CAPTURE INPUT +26dB.

...

GAIN KNOB BEHAVIOR

In Capture Mode, the GAIN LED ring is a meter that measures the CAPTURE INPUT.



LOW CAPTURE INPUT LEVEL



CORRECT CAPTURE INPUT LEVEL



CAPTURE INPUT CLIPPING

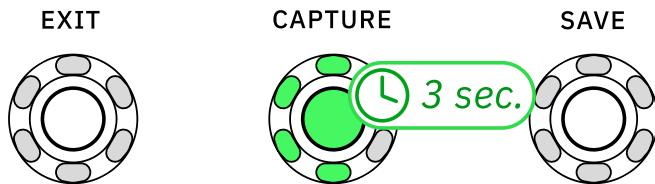
- The GAIN LED ring will turn **green** when the CAPTURE INPUT level is healthy.
- The GAIN LED ring will turn **blue** when the CAPTURE INPUT level is too low. Increase the GAIN or turn on the BOOST switch to compensate for the low level.
- The GAIN LED ring will turn **red** and blink when the CAPTURE INPUT level is clipping. Turn off the BOOST switch or reduce the output level of the target device until the signal level is correct (Green LEDs).

ANALOG BOOST WARNING

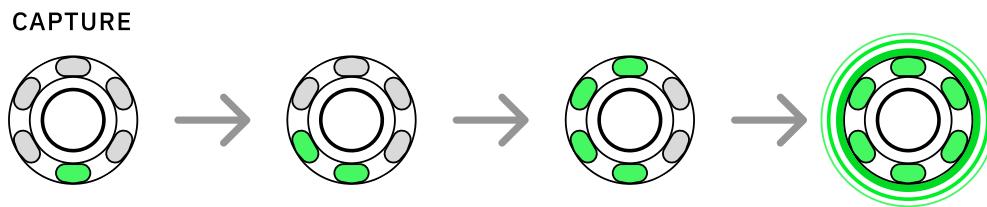
Ensure the **GAIN** knob is set to its **minimum position (0%)** before engaging the BOOST switch.



Capture Process



Press-and-hold **CAPTURE** for 3 seconds to begin the Capture process. Alternatively, press **EXIT** to return to Performance Mode.



The CAPTURE LED ring will light up progressively as soon as the process begins. The Capture process takes around **5 minutes**.

The Nano Cortex will measure the latency of the target device and deliver recorded signals that will be used for modeling. After the sanity check, Nano Cortex will train a neural network to emulate the tone and dynamic response of the target device.

Once the training process is complete, you will be able to test and save your Neural Capture.

Testing & Saving a Neural Capture

Once the Capture is completed, you can A/B compare the Capture and the target device.

Neural Capture Metadata

Add metadata to your Neural Captures on the Cortex Cloud app.

...

Neural Capture Testing



A/B SWITCHING

Press **Footswitch I** to toggle between the **Neural Capture** and the **Target Device**.

Footswitch I's LED bar turns green indicating that you are playing through the recently created Neural Capture. Footswitch I's LED bar turns off indicating that you are playing through the target device.

IR LOADER

When auditioning a recently created Neural Capture, turn **Footswitch II** clockwise or counterclockwise to navigate IR slots. The LEDs will light up according to the slot selected.

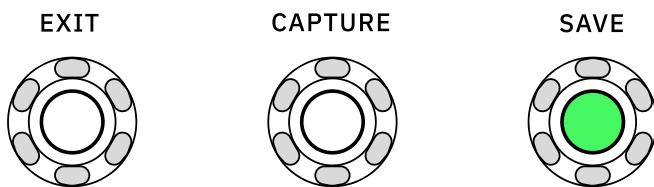
Navigate to the last position, where the LEDs are not lit, to bypass the IR Loader (*Recommended when auditioning a Capture that includes a speaker cabinet*).

PEDAL BYPASS

Press **Footswitch II** to bypass the Nano Cortex.

...

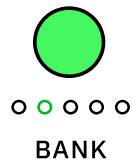
Saving a Neural Capture



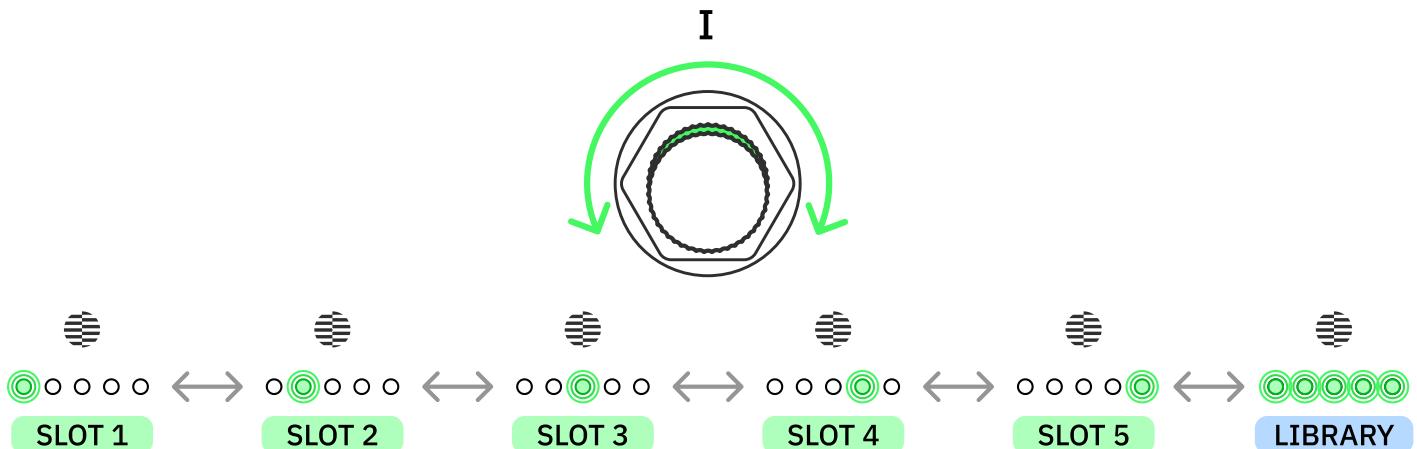
Press **SAVE** to store the recently created Capture.

SAVING DESTINATION

The **BANK** and **Capture Slots** LEDs will blink indicating that you can select a slot to store your recently created Capture.

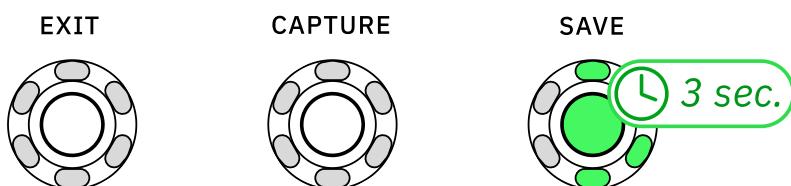


Press **BANK** to cycle Capture banks.



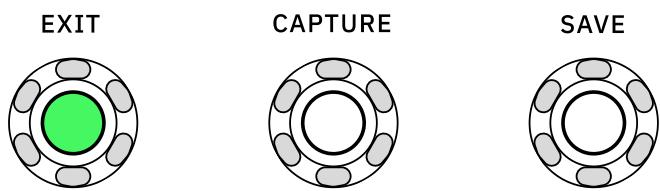
Turn **Footswitch I** clockwise or counterclockwise to navigate Capture slots.

The position where all LEDs are lit corresponds to the **User Library**. Choose this location to save the recently created Neural Capture without assigning it to any slot.



Press-and-hold **SAVE** for 3 seconds to store your Neural Capture in the selected slot.

RETURN TO CALIBRATION SETTINGS

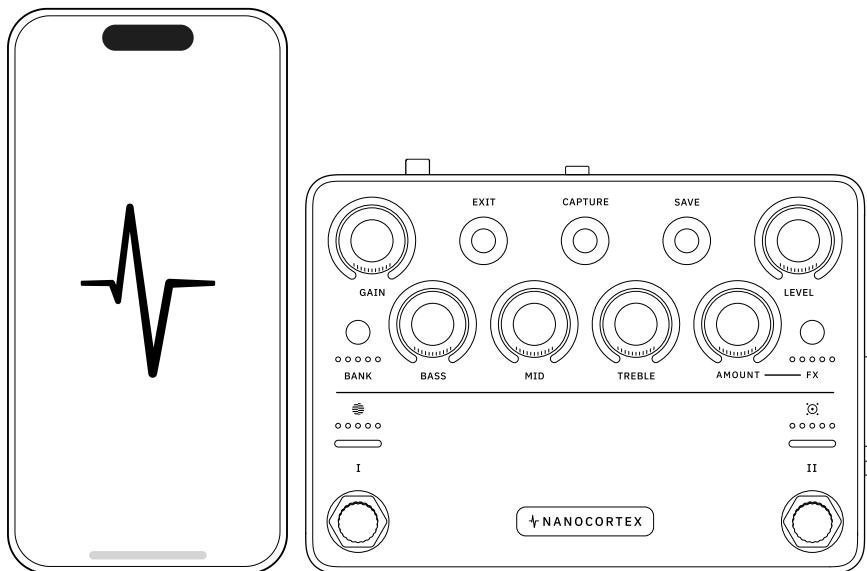


Press **EXIT** to return to the calibration settings and start a new Capture process.

Press **EXIT** again to return to Performance Mode.

06

Cortex Cloud App



Cortex Cloud Features

Deeper Preset customization and additional features are available via the Cortex Cloud app:

- Deeper Preset customization
- Additional Preset slots
- Additional IR Loader settings
- Impulse Responses Library
- Neural Capture metadata
- Thousands of Neural Captures from the community

Bluetooth Pairing

BLUETOOTH ACCESS

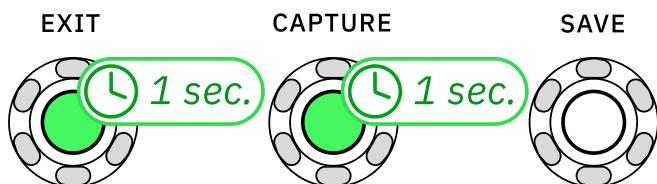
Cortex Cloud uses Bluetooth to pair with your Nano Cortex. First, allow Bluetooth access for the Cortex Cloud app in your smartphone's settings.

...

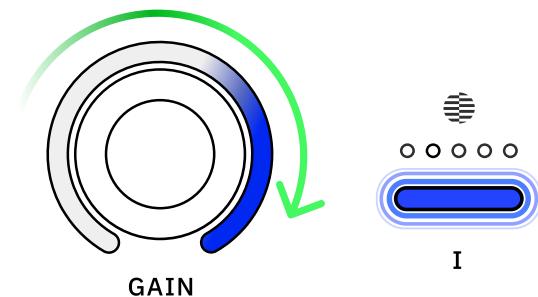
PAIRING DEVICES



Open the Cortex Cloud app on your smartphone, access the **Devices** menu, and tap **Add New**. Your smartphone will start searching for nearby Nano Cortex units.



Press-and-hold **EXIT** and **CAPTURE** for 1 second to put your Nano Cortex into Pairing Mode.



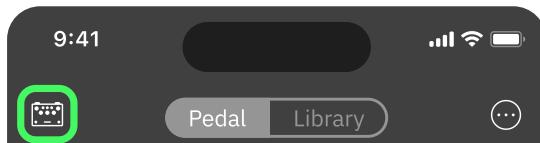
The GAIN LED ring will illuminate clockwise and Footswitch I's LED will blink slowly, indicating that Nano Cortex is in Pairing Mode.



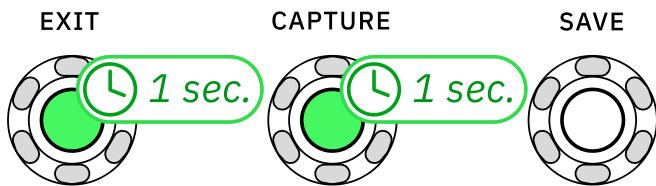
Once paired, the app will show the current Nano Cortex configuration.

• • •

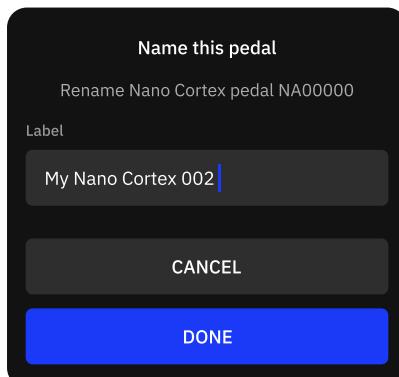
PAIRING A SECOND NANO CORTEX



Go to the **Devices** menu and tap **Add New**. Your smartphone will start searching for nearby Nano Cortex units.



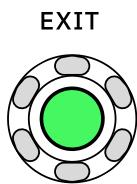
Press-and-hold **EXIT** and **CAPTURE** for 1 second to put your Nano Cortex in Pairing Mode.



Once paired, you can **rename** your Nano Cortex unit for future reference.

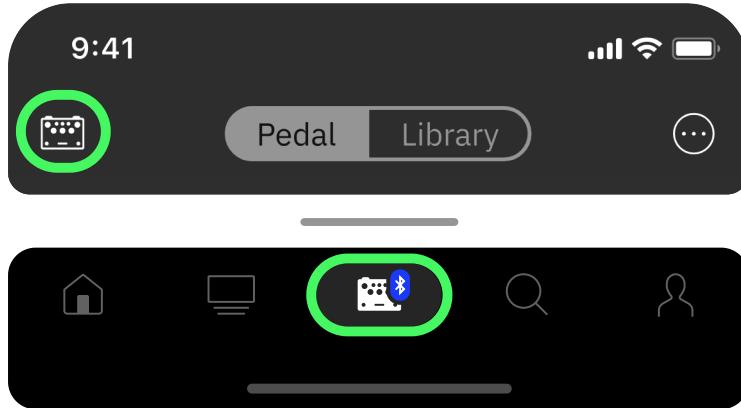


After that, the app will show the current Nano Cortex configuration.



During Pairing Mode, press **EXIT** to return to Performance Mode if you no longer want to pair your device.

Devices Screen



Select the Neural DSP device you are currently using. Cortex Cloud will show only content compatible with your selection:

- **QUAD CORTEX**: Cortex Cloud will show Quad Cortex-compatible content, such as Presets, Neural Captures, and Users.
- **NANO CORTEX**: Cortex Cloud will show Nano Cortex-compatible content, such as Neural Captures and Users.

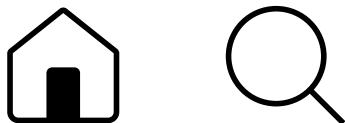
Downloading Content



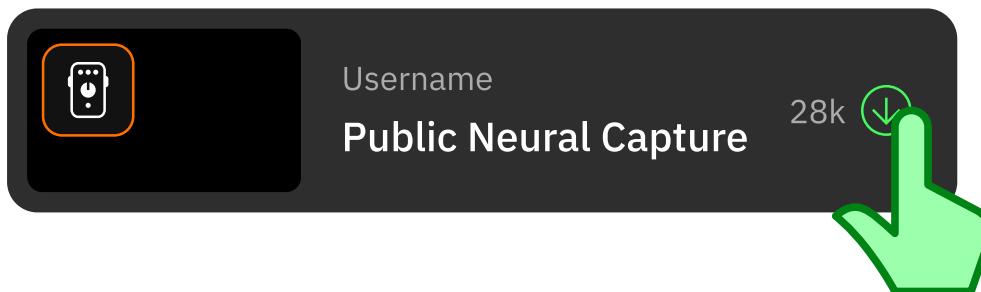
Ensure you have selected **Nano Cortex** in the Devices screen.

...

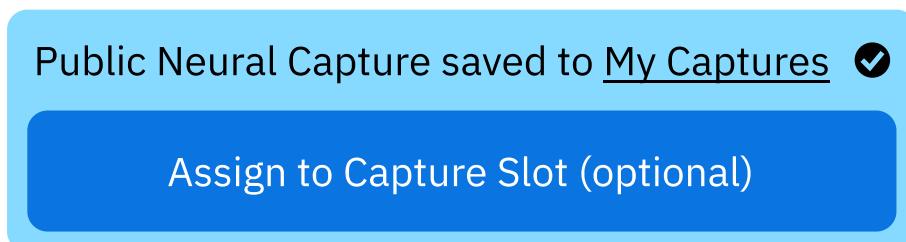
NEURAL CAPTURES



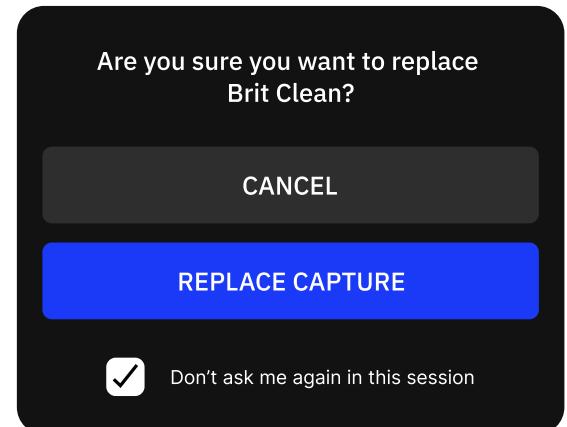
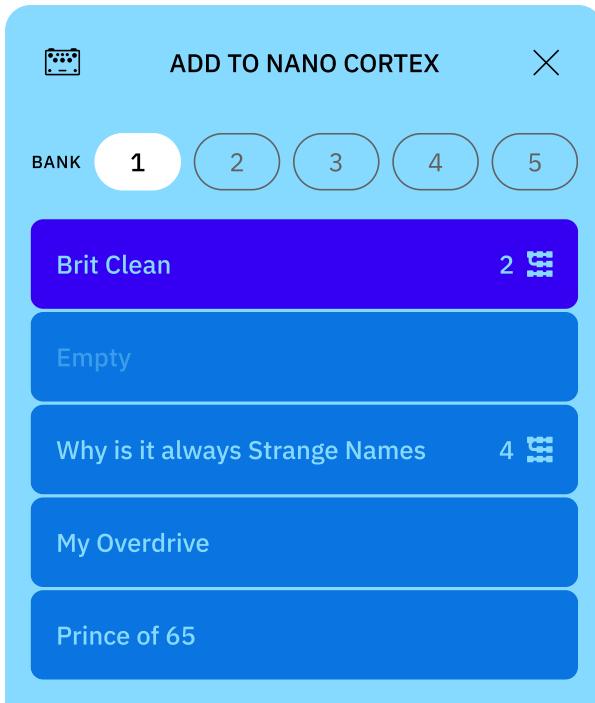
Search for Neural Captures via Cortex Cloud.



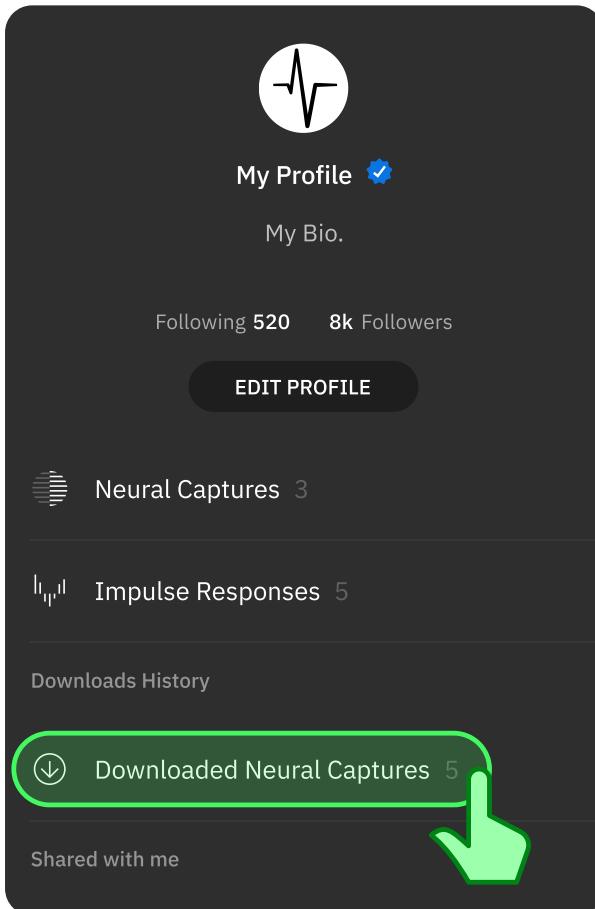
Tap the download button next to the Neural Capture.



The Neural Capture will then be downloaded to the Library. Alternatively, you can assign it to a bank and slot.



Assigning a Neural Capture to an occupied slot will replace the currently assigned Neural Capture.



Neural Captures downloaded while Nano Cortex is offline will be stored in the **Downloads History** under your Profile.

...

UPLOADING IMPULSE RESPONSES

Impulse Responses can be added to your Profile via the Cortex Cloud Website.

- 1 Go to <https://cloud.neuraldsp.com/cloud>
- 2 Access your Profile on Cortex Cloud.
- 3 Go to the **IMPULSE RESPONSES** section.
- 4 Drag-and-drop IR files from your computer to the upload area. Alternatively, click **BROWSE** to search for custom locations.

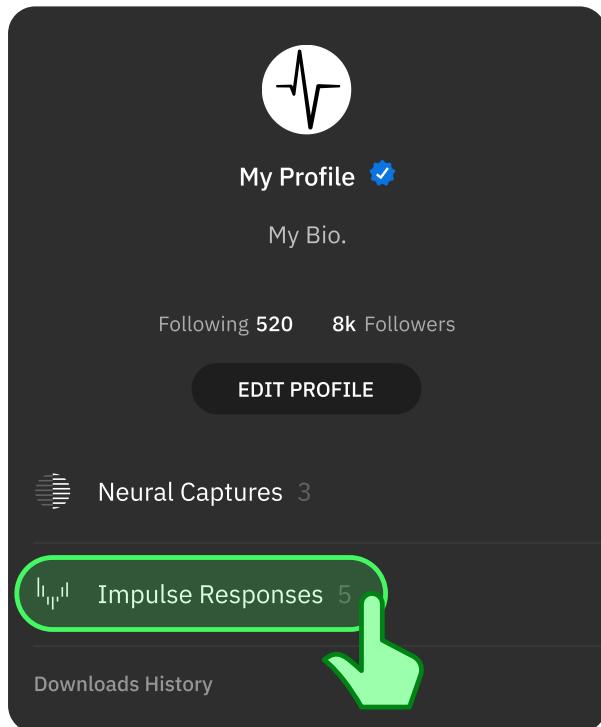
Impulse Response Compatibility

Any compatible WAV file can be uploaded to the Cloud no matter its length. Files will be resized to **1024 samples** after being uploaded (~21 milliseconds).

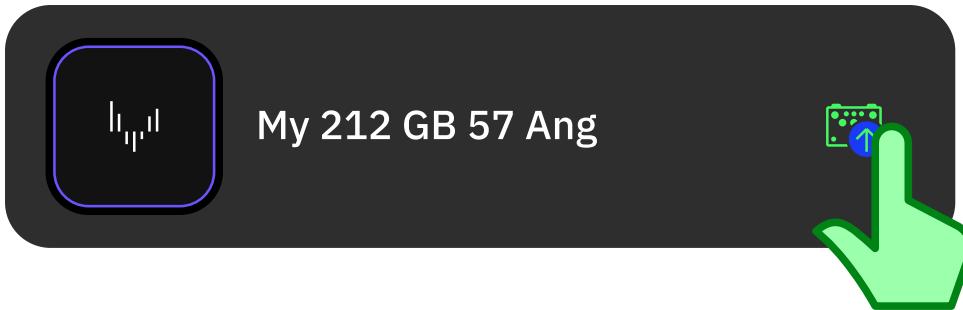


...

ADDING IMPULSE RESPONSES



Access your Profile and tap **Impulse Responses**.



Tap the button next to the IR files to download them to your Nano Cortex.

Presets Library

Nano Cortex can store up to 64 Presets that can be assigned to **Footswitch I** and **II** or triggered via MIDI.

FOOTSWITCH ASSIGNMENTS

IA Brit 2203 ...

IB Lead Chorus

IIA Drop D

IIB My Combo Amp

SHOW ALL PRESETS

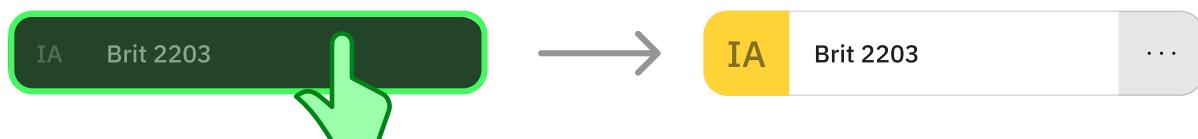
ALL PRESETS

IA	Brit 2203	1 ...
IB	Lead Chorus	2 ...
IIA	Drop D	3 ...
IIB	My Combo Amp	4 ...
Clean Amp	Clean Amp	5 ...
Empty	Empty	...

SHOW ALL PRESETS will display all the Preset slots on a single screen.

...

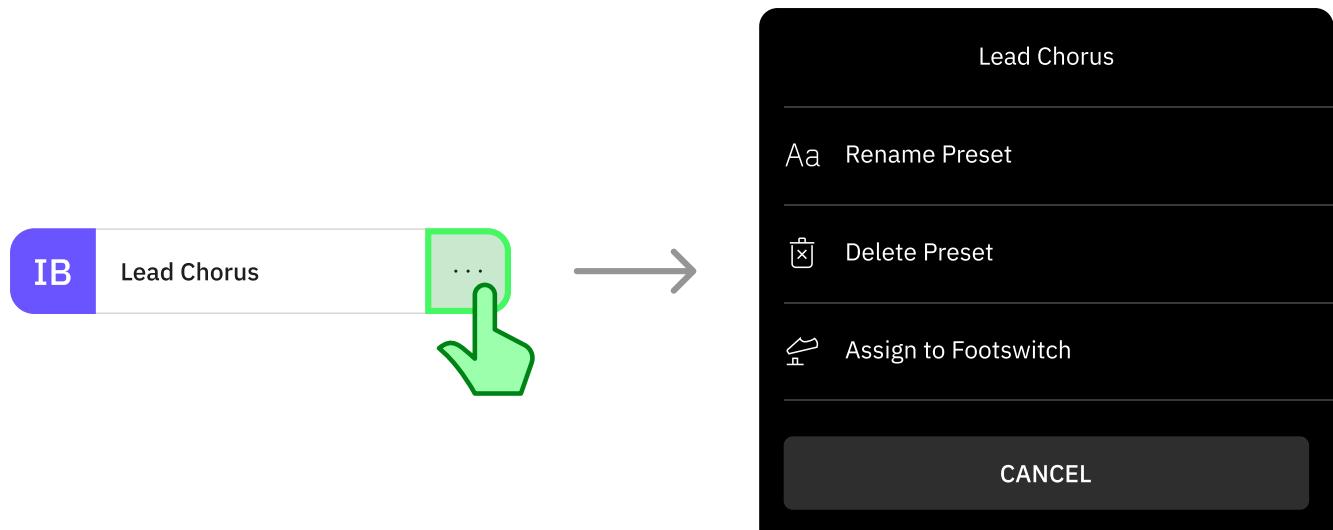
PRESETS WORKFLOW



Tap a Footswitch-assigned Preset to load it.



Tap an unassigned Preset to load it. **Footswitch I** will turn red indicating the current Preset is not assigned to any Footswitch.

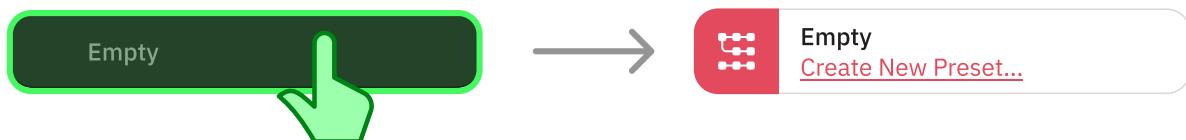


Tap the **button** to the right of any Preset to access its contextual menu:

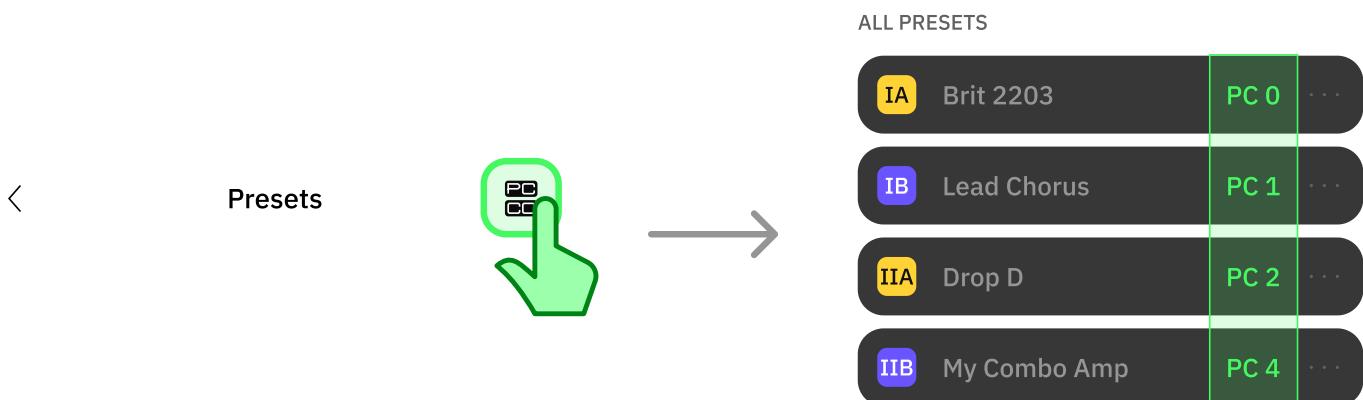
- **RENAME PRESET**: Tap to rename the selected Preset.
- **DELETE PRESET**: Tap to delete the selected Preset.
- **ASSIGN TO FOOTSWITCH**: Tap to assign or reassign the selected Preset to any Footswitch.



You can assign a single Preset to multiple footswitches simultaneously.



Tap an empty Preset to load it. Alternatively, tap **Create New Preset...** to create a new Preset from scratch. Select at least one device and tap **SAVE**.



Tap the **PC/CC** button at the top-right corner to toggle the PC messages view in the Presets list.

