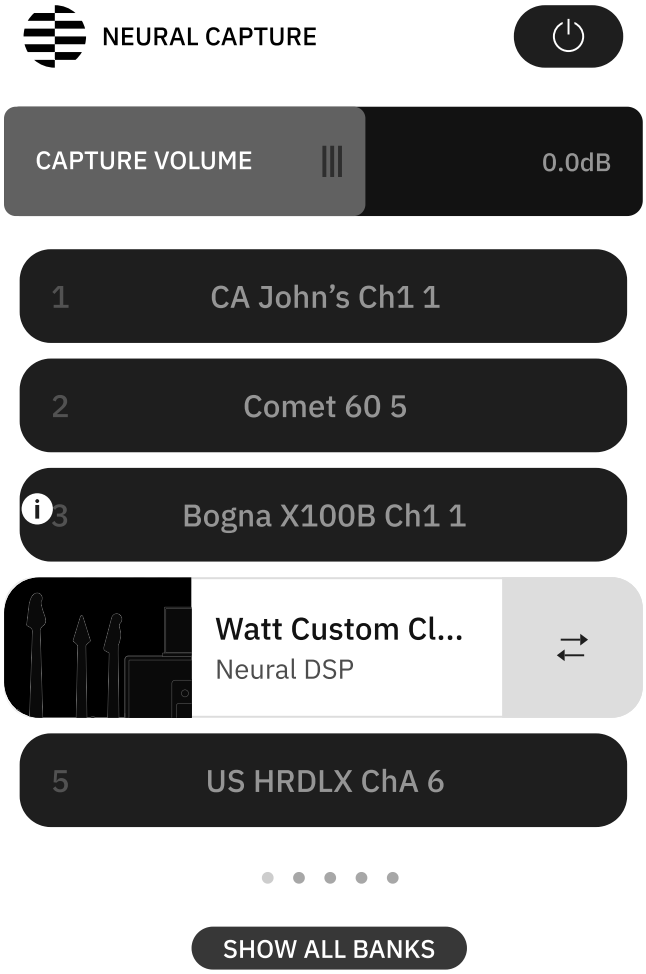
Neural Capture Library

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



SHOW ALL BANKS will expand all the Capture banks on a single screen.

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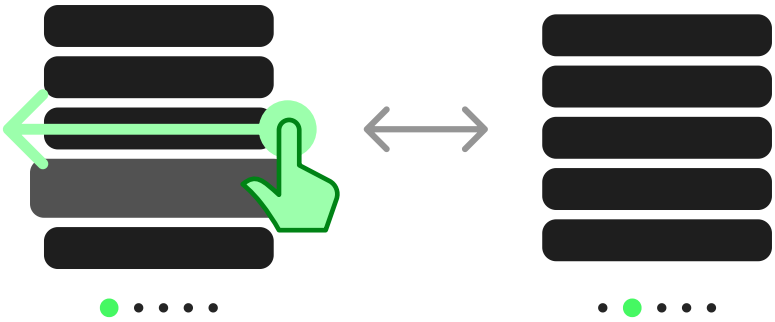
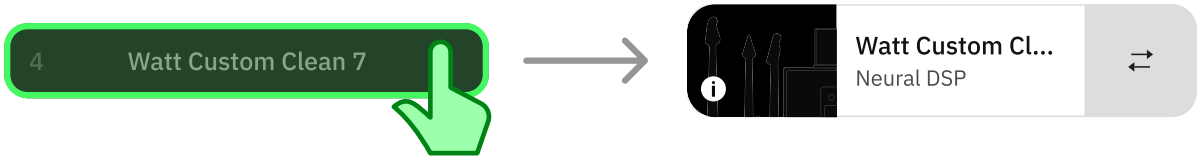
NEURAL CAPTURE LIBRARY WORKFLOW

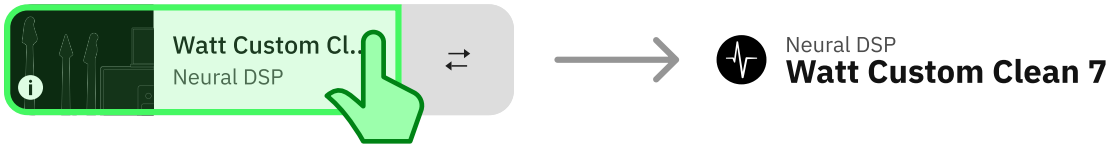
Drag the **CAPTURE VOLUME** slider to control the output volume of the currently active capture slot (-24dB to +12dB).



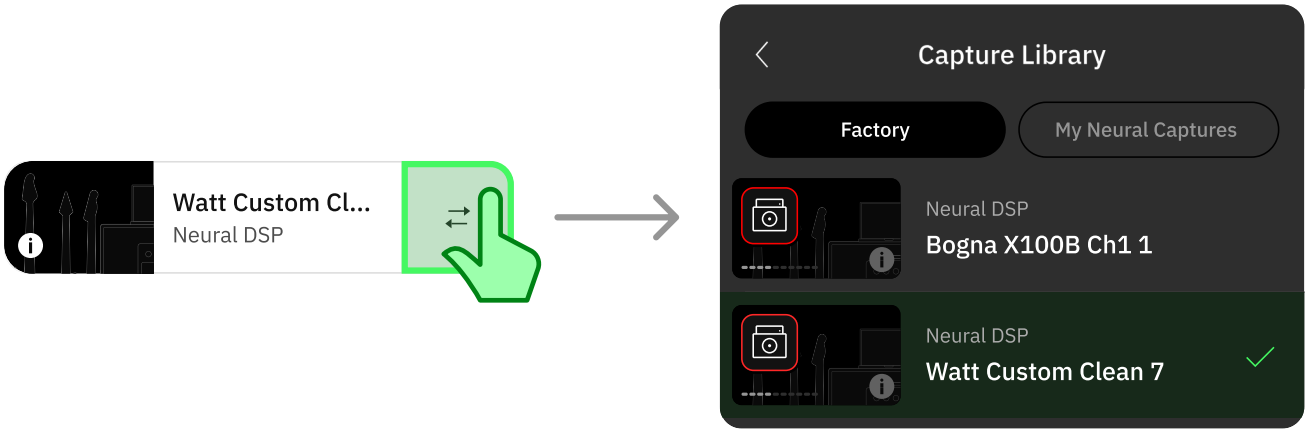
Swipe horizontally to navigate Capture banks.



Tap an inactive **Capture slot** to activate it.



Tap an **active Capture slot** to access its details screen.



Tap the **swap button** to the right of an active Capture slot to access the Capture Library and replace the currently loaded Neural Capture.

Tap a Neural Capture to audition it. Tap **USE** to load it in the current slot.

NEURAL CAPTURE

Tap the **Bypass** button to bypass the Neural Capture module.

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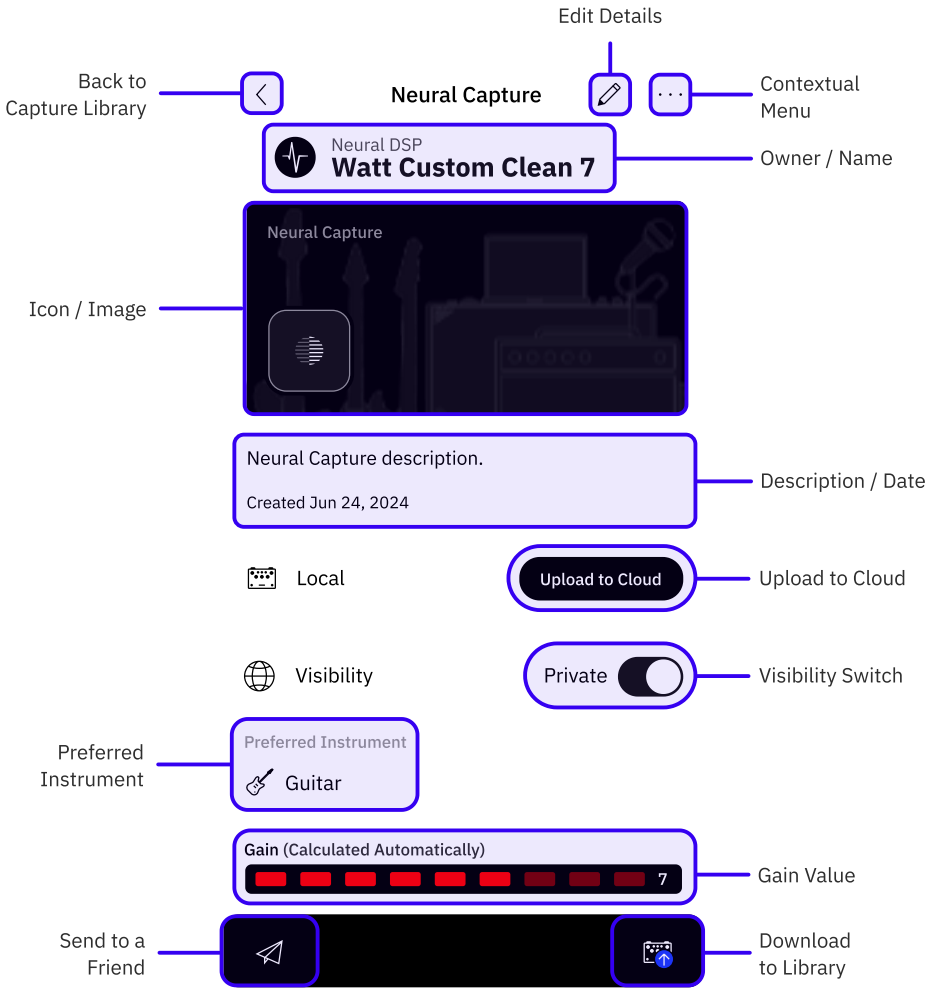
NEURAL CAPTURE DETAILS SCREEN



- **EXIT**: Tap to return to the Capture Library.
- **EDIT**: Tap to edit the details of the current Neural Capture. Not available when checking Neural Captures from other users.
- **CONTEXTUAL MENU**: Tap to DELETE or SHARE the current Neural Capture.
- **OWNER/NAME**: Tap to access the Neural Capture owner's profile.
- **ICON/COVER**: Neural Capture's icon and custom cover photo are shown here.
- **DESCRIPTION FIELD**: Neural Capture description and creation date.
- **UPLOAD TO CLOUD**: Tap to upload the current Neural Capture to the Cloud. Not available when checking Neural Captures from other users.

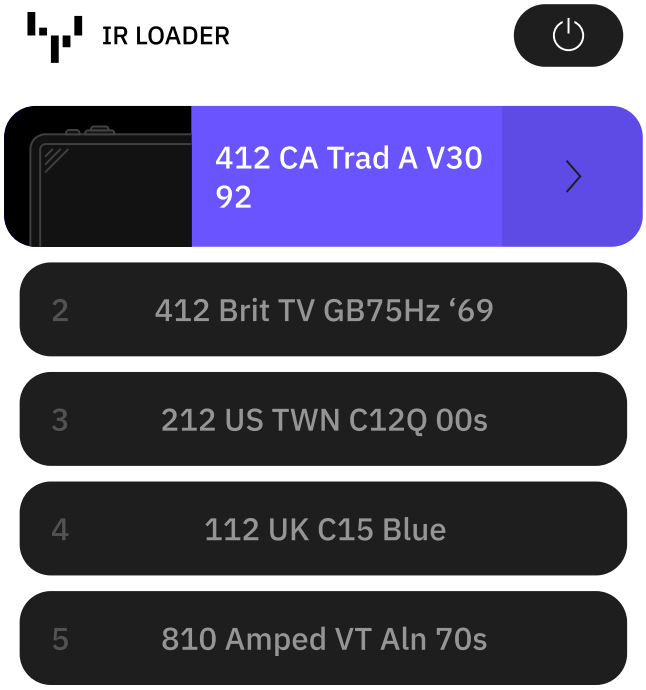
- **VISIBILITY**: Tap to toggle the current Neural Capture visibility (Private/Public). Not available when checking Neural Captures from other users.
- **PREFERRED INSTRUMENT**: The preferred instrument is displayed here.
- **GAIN**: The gain value is automatically calculated after creating a Neural Capture. Based on how saturated the Neural Capture is, it is given a gain value of **1-10**; 1 being a clean 10 and 10 being the most saturated distortion.
- **SEND TO A FRIEND**: Tap to send the selected Neural Capture to a friend.
- **DOWNLOAD**: Tap to download the current Neural Capture to the Nano Cortex Library.

Downloading Content

Download Neural Captures and IR files via Cortex Cloud.

IR Loader Library

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



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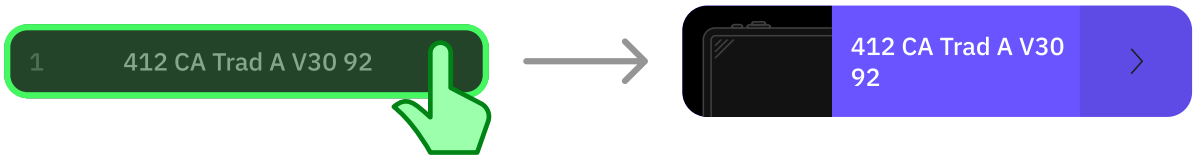
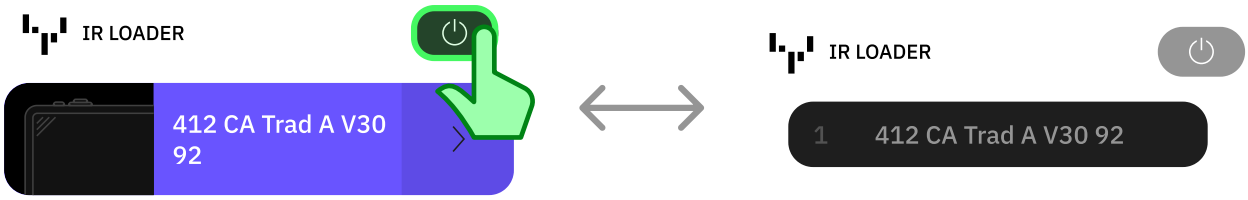
IR LOADER WORKFLOW



Tap a **disabled IR slot** to activate it.

Tap an **active IR slot** to enter its parameter screen.



Tap the **Bypass** button to bypass the IR Loader.

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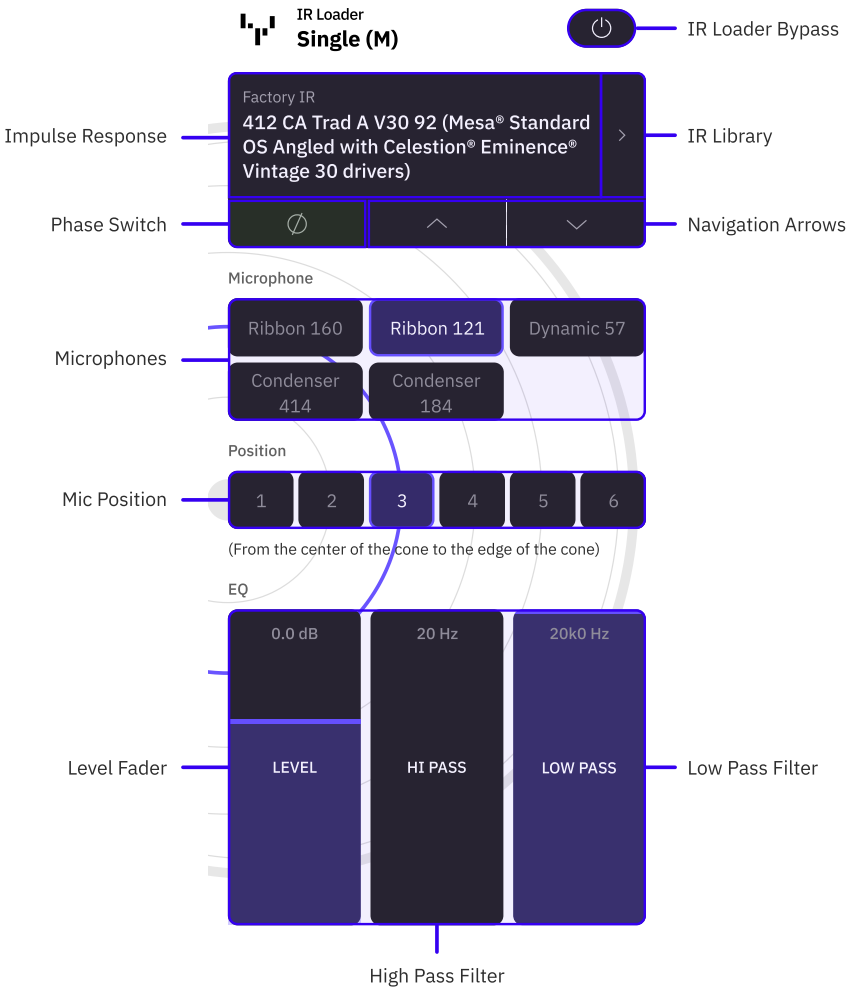
IR LOADER PARAMETER SCREEN



Microphones and **Mic Position** modules will not be available in the IR Loader parameter screen layout when using User Impulse Responses.

- **BYPASS**: Tap to bypass/enable the IR Loader.
- **IMPULSE RESPONSE**: Displays the currently loaded Impulse Response.
- **IR LIBRARY**: Tap to access Factory and User Impulse Responses.
- **PHASE**: Tap to invert the phase of the current IR.
- **UP/DOWN**: Tap to navigate Impulse Responses.

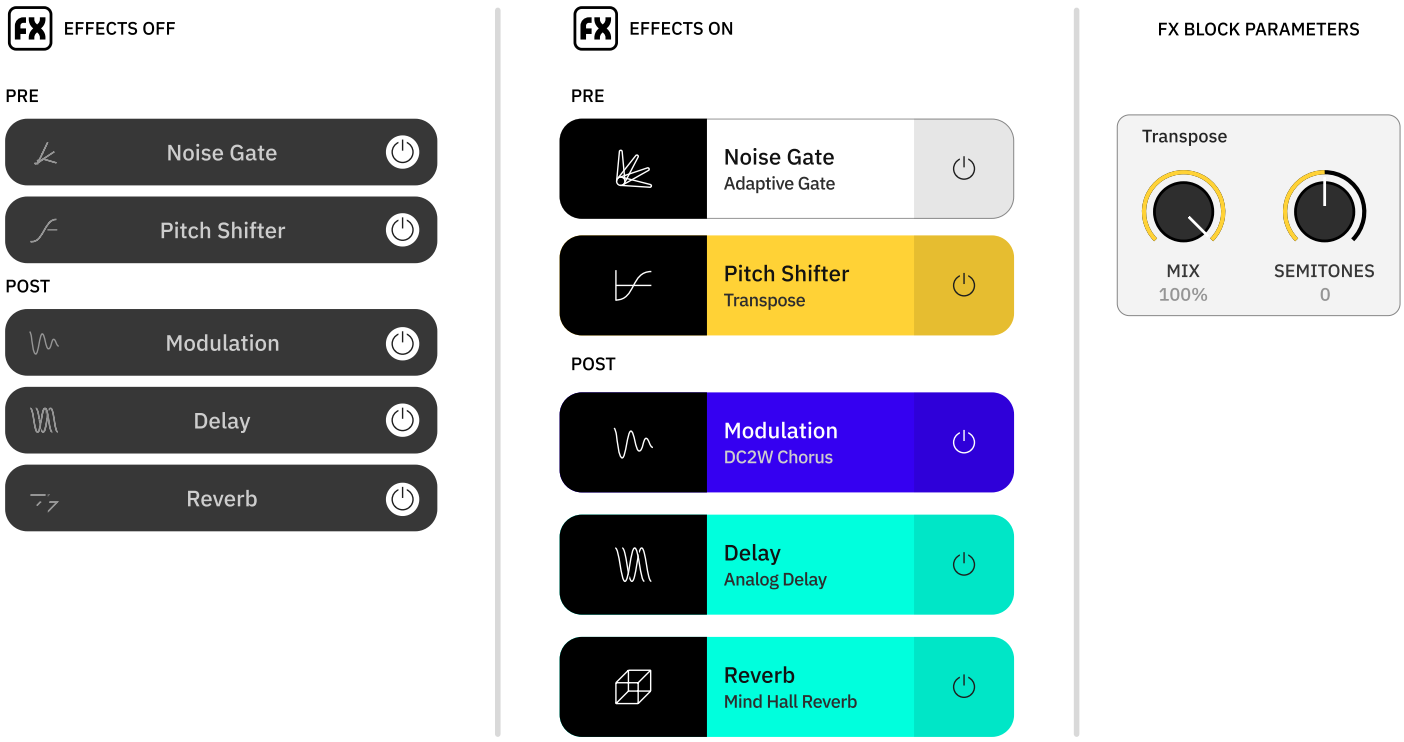
- **MICROPHONES**: Factory microphones list. Tap to select a microphone. This module will not be available in the parameter screen layout when using User Impulse Responses.
- **MIC POSITION**: Six fixed positions for the currently selected microphone. Tap to select a position. This module will not be available in the parameter screen layout when using User Impulse Responses.
- **LEVEL FADER**: Drag to increase/decrease the Impulse Response output volume.
- **HI PASS FADER**: Increase to remove low frequencies from the Impulse Response signal.
- **LOW PASS FADER**: Decrease to remove high frequencies from the Impulse Response signal.

Downloading Content

Download Neural Captures and IR files via Cortex Cloud.

Effects Library

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



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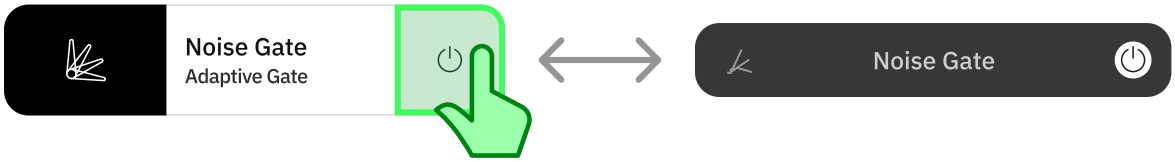
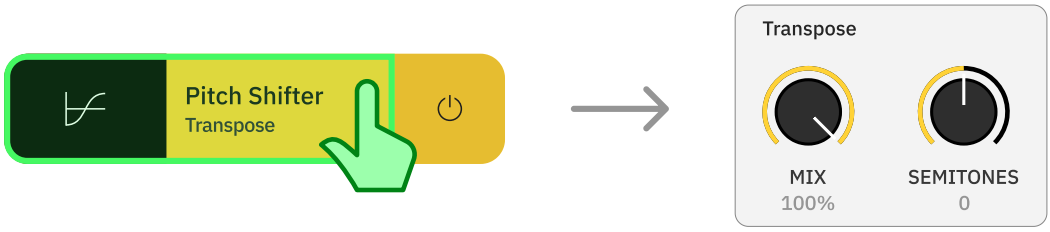
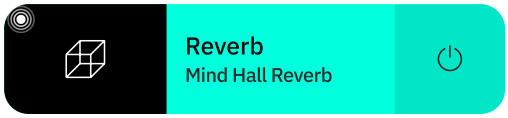
EFFECTS LIBRARY WORKFLOW



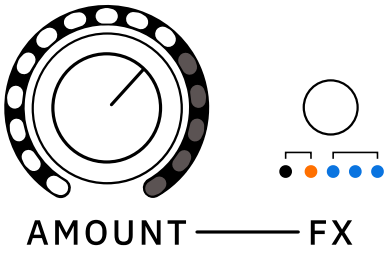
Tap the **Bypass** button to bypass/engage the current effect.



Tap an **effect slot** to access its parameters screen.



A white dot will appear at the top-left corner of an effect slot whenever there are **unsaved changes** in its parameter screen.

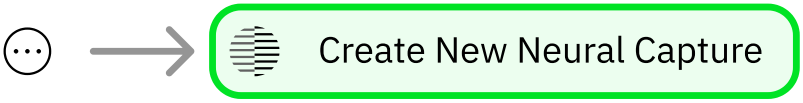


Nano Cortex's **AMOUNT** and **FX** LEDs will update their values reflecting changes made on the Cortex Cloud app in real time.

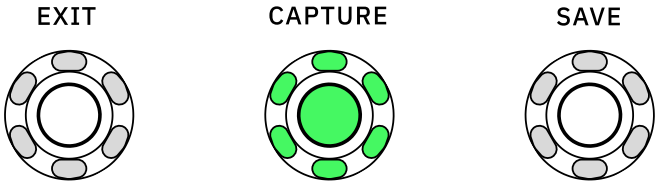
Create New Neural Capture

While you can create a Neural Capture without using the Cortex Cloud app, using the app offers a better, guided experience from start to end.

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.



Tap the contextual menu button at the app's top-right corner, and select **Create New Neural Capture** to access the 'Connection Diagram' screen.



Alternatively, press the **CAPTURE** button on your Nano Cortex while the Cortex Cloud app is open. The app will automatically skip the 'Connection Diagram' and enter the 'Calibration Settings' screen.

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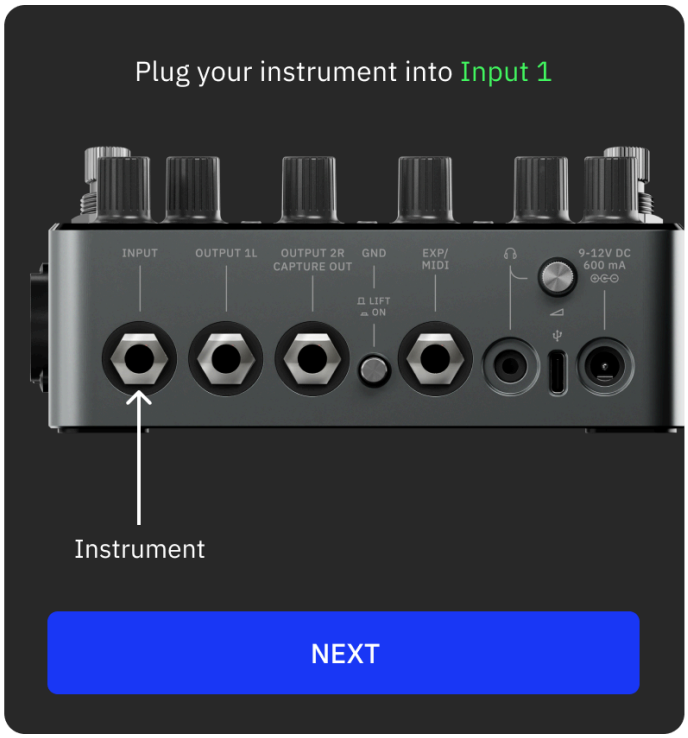
CONNECTION DIAGRAM SCREEN



Follow the instructions on the screen. Tap **NEXT** to navigate through the connection steps.

Alternatively, tap **SKIP** to access the 'Calibration Settings' screen.

Neural Capture Connection Diagram

Click to access a deeper overview of the connection diagram.

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.

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CALIBRATION SETTINGS SCREEN

Ensure the target device's settings are set to your liking and the Nano Cortex's GAIN knob is at the minimum position.

- **CAPTURE GAIN**: Drag the slider to increase the CAPTURE INPUT gain up to a maximum of +24dB.
- **OUTPUT LEVEL**: Drag to control the overall output volume of the Nano Cortex (OUTPUT 1L and Headphones).
- **IR LOADER**: Tap to toggle the IR Loader bypass state.
- **IR SLOT**: Tap to select the IR slot.
- **START CAPTURE**: Tap to begin the Capture process.

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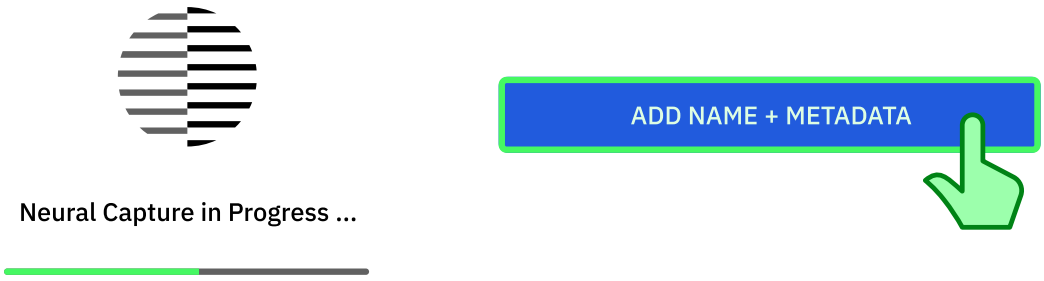
CAPTURE PROCESS & METADATA



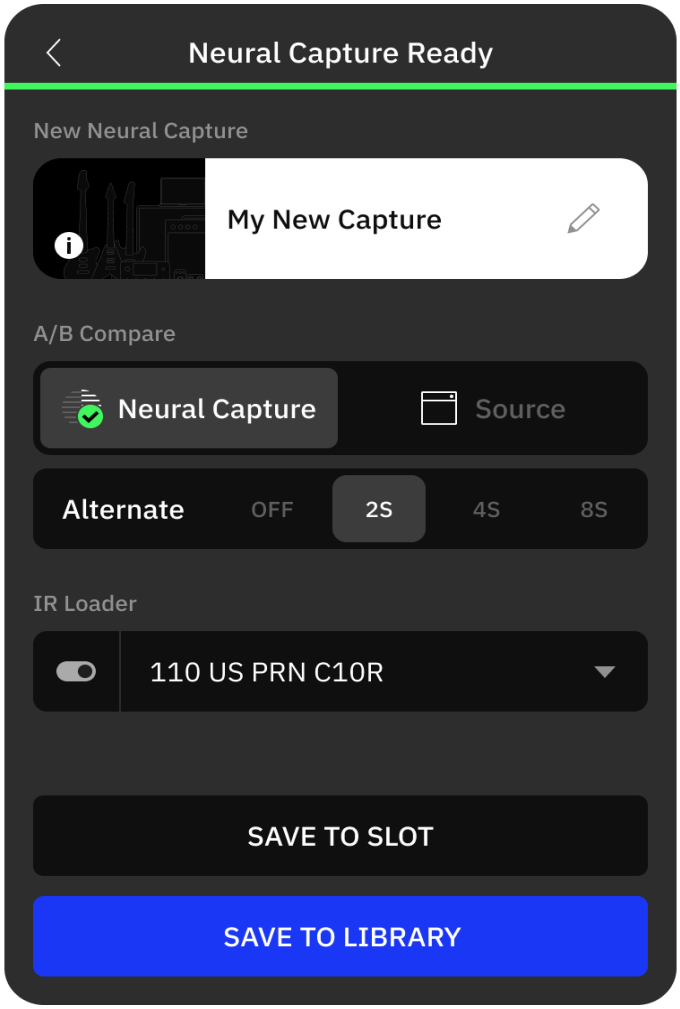
The Nano Cortex will measure the latency of the target device and deliver recorded signals that will be used for modeling.

While the Capture is in progress, you can add metadata to your Neural Capture such as *Name*, *Type*, *Description,* and *Preferred Instrument*.

Tap **NEXT** to access the 'Testing' screen.

• • •

TESTING SCREEN



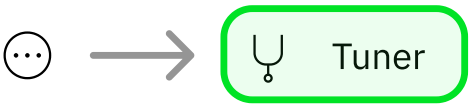
- **NEW NEURAL CAPTURE**: Tap to edit the Neural Capture metadata.
- **A/B COMPARE**: Monitoring switch. Tap to toggle between the target device signal and the recently created Neural Capture. Additionally, you can set it to switch automatically every 2, 4, or 6 seconds.
- **IR LOADER**: Tap to toggle the IR Loader bypass state.
- **IR SLOT**: Tap to select the IR slot.
- **SAVE TO SLOT**: Tap to save the recently created Neural Capture to a Capture slot.
- **SAVE TO LIBRARY**: Tap to save the recently created Neural Capture in your Library.

Once your Neural Capture is saved, tap **DONE** to exit Capture Mode.

Alternatively, tap **CREATE ANOTHER CAPTURE** to return to the 'Calibration Settings' screen.

Tuner (App)

The Nano Cortex is equipped with a chromatic tuner that provides seamless integration with the Cortex Cloud app.



Tap the contextual menu button at the app's upper-right corner, and select **Tuner**.

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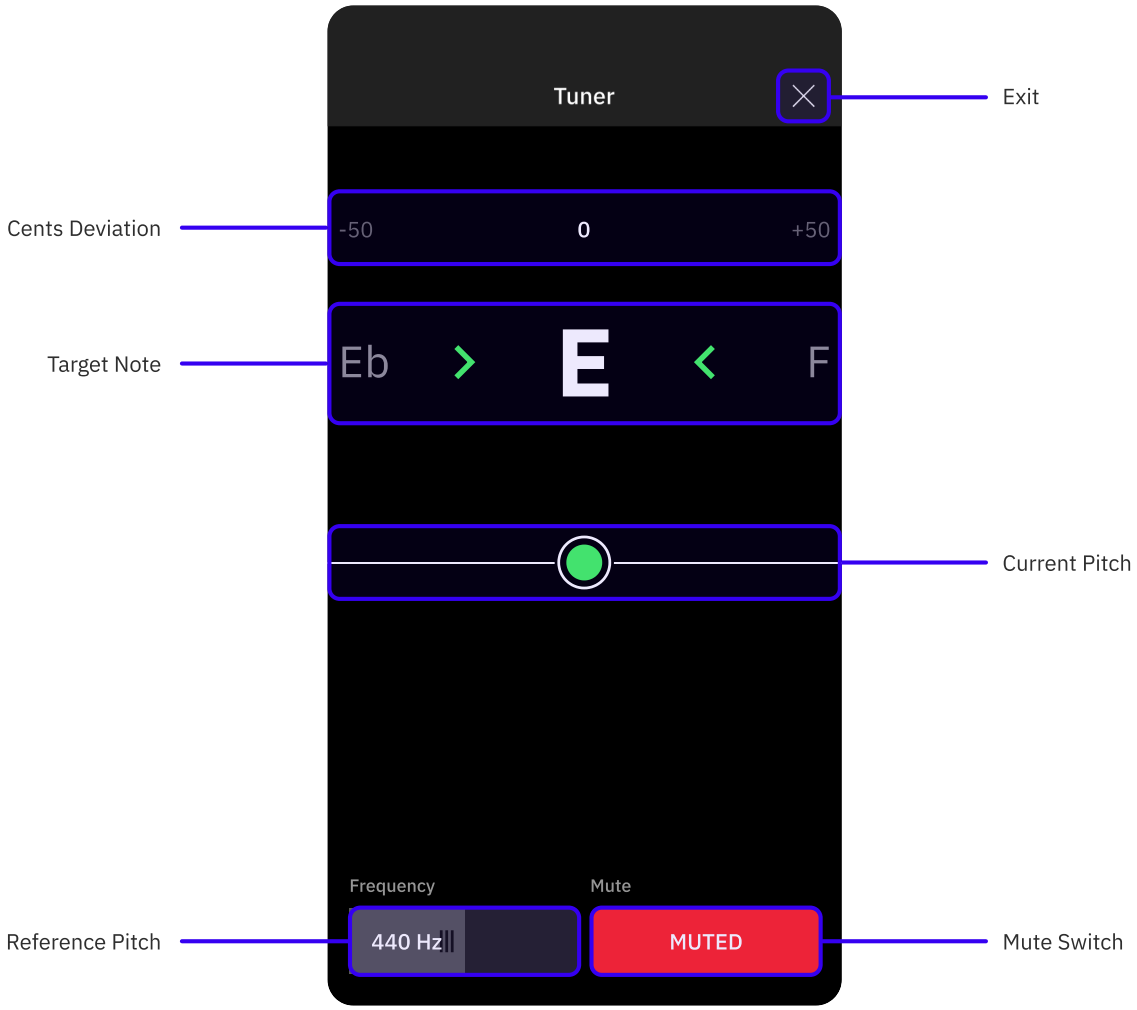
TUNER LAYOUT



The chromatic tuner works by detecting the pitch of the note being played and then displaying it on the Nano Cortex LED rings and on the Cortex Cloud App.

- **EXIT**: Tap to exit the Tuner.

- **TUNING DISPLAY**: Displays the note being played and its current pitch.
- **FREQUENCY**: Adjust the reference pitch from 400 to 480Hz (440Hz by default).
- **MUTE**: Tap to **mute**/**unmute** the input signal when the Tuner is opened.

Tuner Synchronization

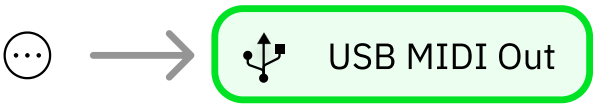
When the Tuner is engaged on the Nano Cortex, it will automatically display on the Cortex Cloud app. Similarly, opening the Tuner on the Cortex Cloud app will activate it on the Nano Cortex.

Tuner Display on Nano Cortex

Click to check how the Tuner works on Nano Cortex.

USB MIDI Out

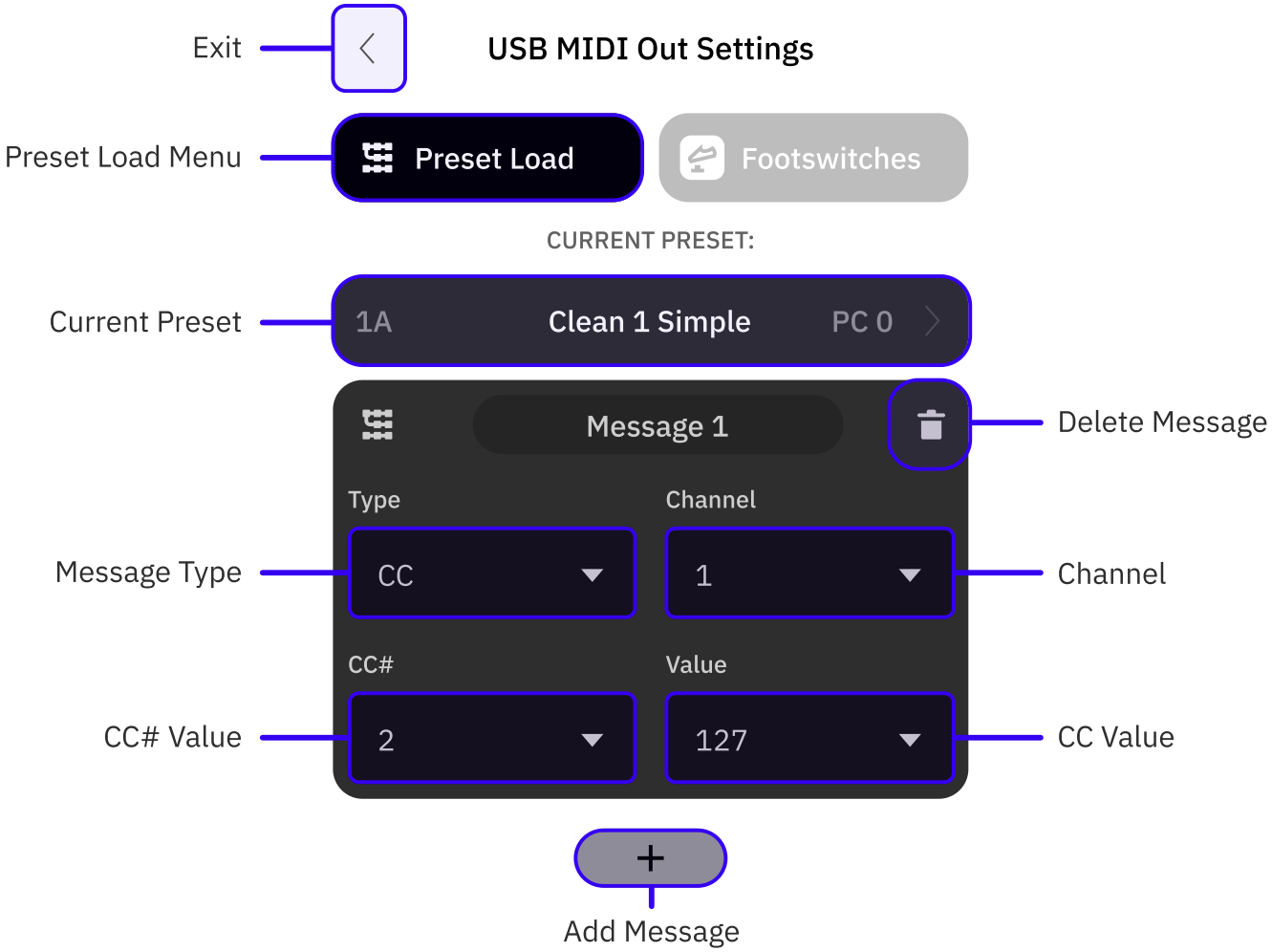
Nano Cortex can send MIDI messages to external devices via USB-C when pressing footswitches or upon Preset load.



Tap the contextual menu button at the app's upper-right corner, and select **USB MIDI Out** to access the settings.

• • •

PRESET LOAD



You can assign up to **12 MIDI messages per Preset** that will be sent via USB simultaneously once a designated Preset is loaded.

- **EXIT**: Tap to exit the USB MIDI Settings screen.
- **CURRENT PRESET**: Tap to access the Preset List. Choose a Preset to assign MIDI messages to it. You can assign MIDI messages to multiple Presets.
- **ADD (+)**: Tap to create a MIDI message.
- **DELETE**: Tap to delete a MIDI message.
- **TYPE**: MIDI message type (CC or PC).
- **CHANNEL**: MIDI message Channel (1 to 16).
- **MIDI MESSAGE COMPONENTS**:
  CC: CC# and Value.
  PC: Bank CC#0, Bank CC#32, and Program.

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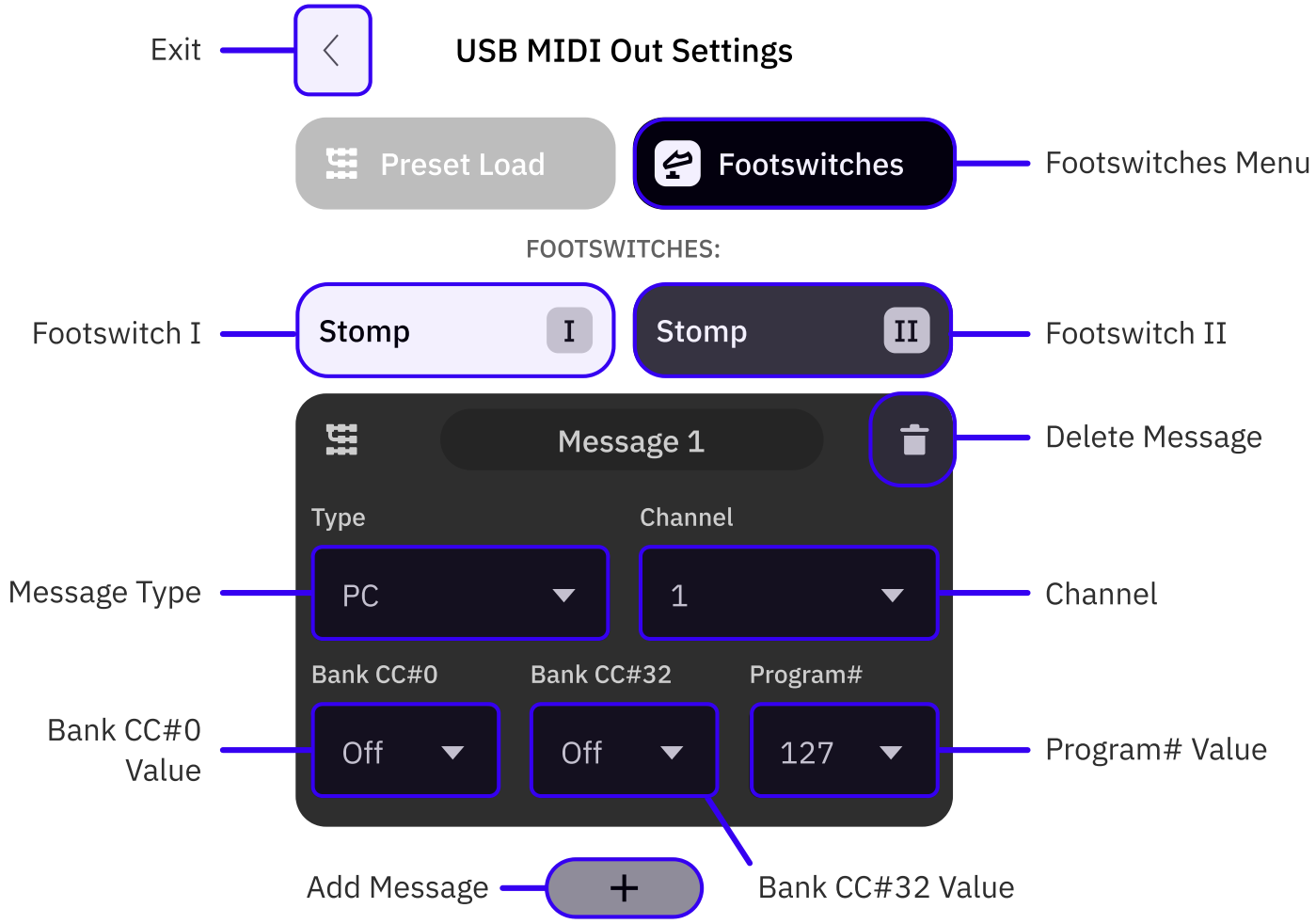
FOOTSWITCHES



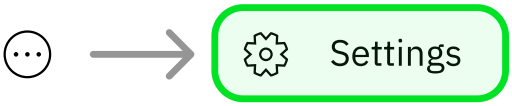
You can assign up to **12 MIDI messages per footswitch** that will be sent via USB simultaneously upon pressing a designated footswitch.

- **EXIT**: Tap to exit the USB MIDI Settings screen.

- **FOOTSWITCH**: Tap to select a footswitch. The MIDI messages assigned to the selected footswitch will be displayed on the screen.
- **ADD (+)**: Tap to create a MIDI message.
- **DELETE**: Tap to delete a MIDI message.
- **TYPE**: MIDI message type (CC or PC).
- **CHANNEL**: MIDI message Channel (1 to 16).
- **MIDI MESSAGE COMPONENTS**:
  CC: CC# and Value.
  PC: Bank CC#0, Bank CC#32, and Program.

Incoming MIDI Support

Nano Cortex can receive MIDI messages from external devices via **USB-C** and **TRS MIDI Type-A**.



To enable incoming MIDI over TRS, tap the contextual menu button at the app's upper-right corner, go to 'Settings', and ensure the EXP/MIDI operation mode is set to **MIDI**.

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PROGRAM CHANGE PRESET RECALL

The Preset slots organized below 'ALL PRESETS' are automatically assigned to PC messages from Program 0 to 63. Tap the **PC/CC** button at the top-right corner to toggle the PC messages view.

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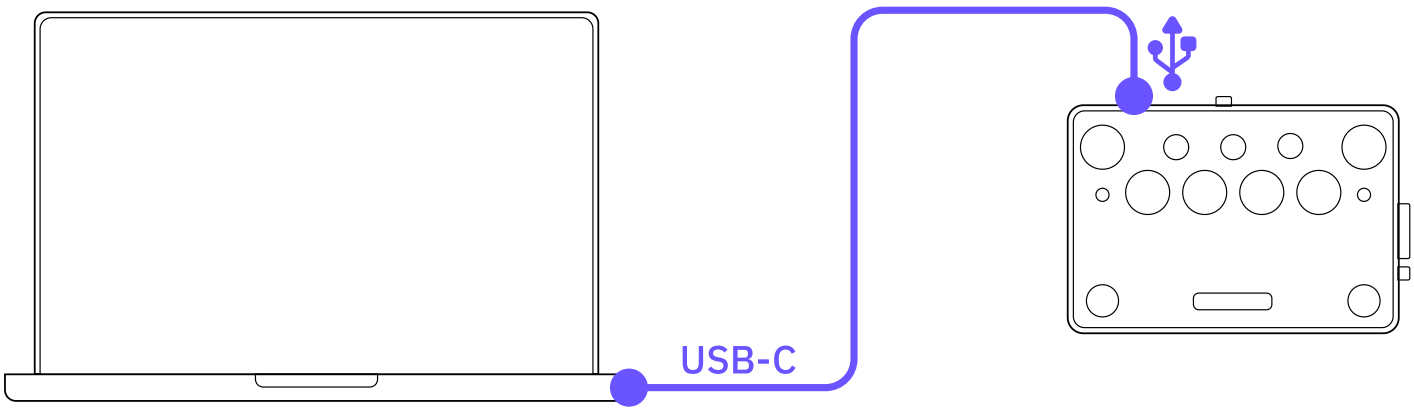
USB MIDI ROUTING



1. Connect your Nano Cortex to a computer via **USB-C**.
2. Open your DAW and ensure Nano Cortex is recognized as a MIDI device.
3. Create a MIDI Track, route its output to Nano Cortex, and place Program Change messages in a MIDI clip.
4. Nano Cortex will recall Presets from the Preset Library accordingly upon playback.

Windows® ASIO Driver

For USB MIDI on Windows® computers, it is necessary to download and install the Nano Cortex ASIO® driver from our website. There is no driver installation necessary for Mac® computers.

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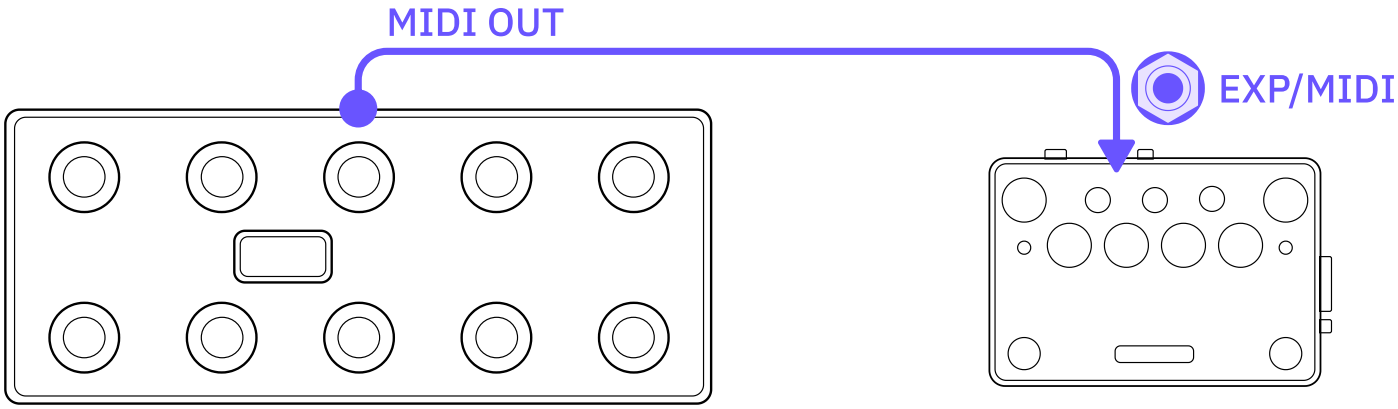
TRS MIDI TYPE-A ROUTING



1. Ensure the EXP/MIDI operation mode is set as **MIDI** in the 'Nano Cortex Settings' screen.
2. Connect the external MIDI device's MIDI OUT to Nano Cortex's EXP/MIDI input by using a **TRS MIDI Type-A** cable.
3. Set the external MIDI device to send Program Change messages (Program 0 to 63).
4. Nano Cortex will recall Presets from the Preset Library accordingly.

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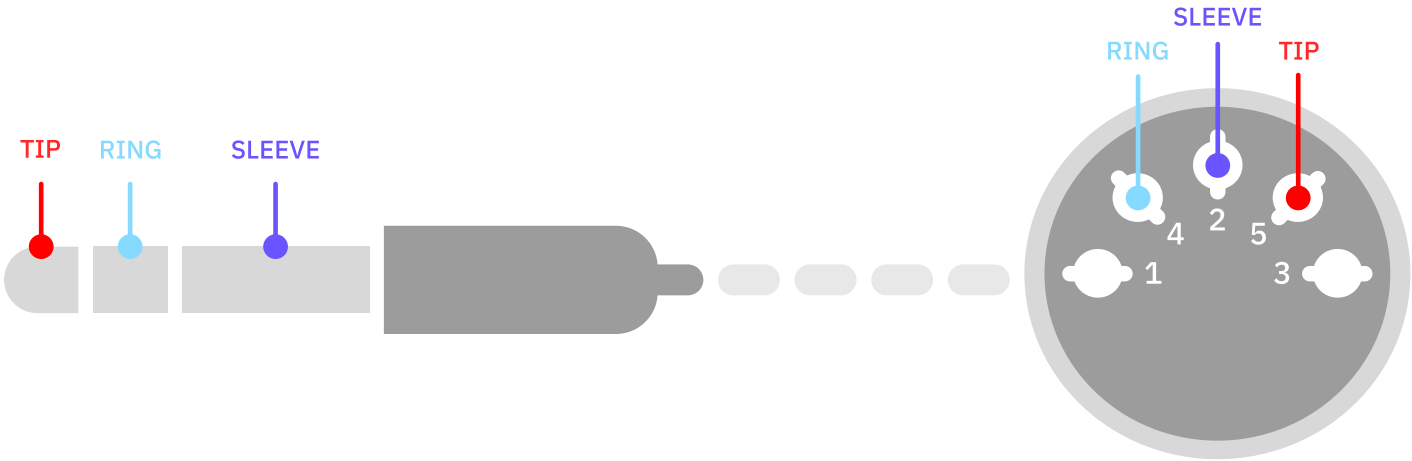
TRS MIDI TYPE-A SUPPORT

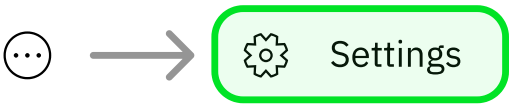


The **TRS MIDI Type-A** connection is the official standard adopted by the *MIDI Association*. Nano Cortex's **EXP/MIDI** input will be compatible with any TRS MIDI cable that meets the following requirements:

- **TIP**: Data line (MIDI Din Pin 5).
- **RING**: Voltage reference line (MIDI Din Pin 4).
- **SLEEVE**: Shield line (MIDI Din Pin 2).

Expression Pedal Configuration

Many of Nano Cortex's parameters can be controlled externally via any compatible expression pedal.



To enable expression pedal support, tap the contextual menu button at the app's upper-right corner, go to 'Settings', and ensure the EXP/MIDI operation mode is set as **EXPRESSION PEDAL**.

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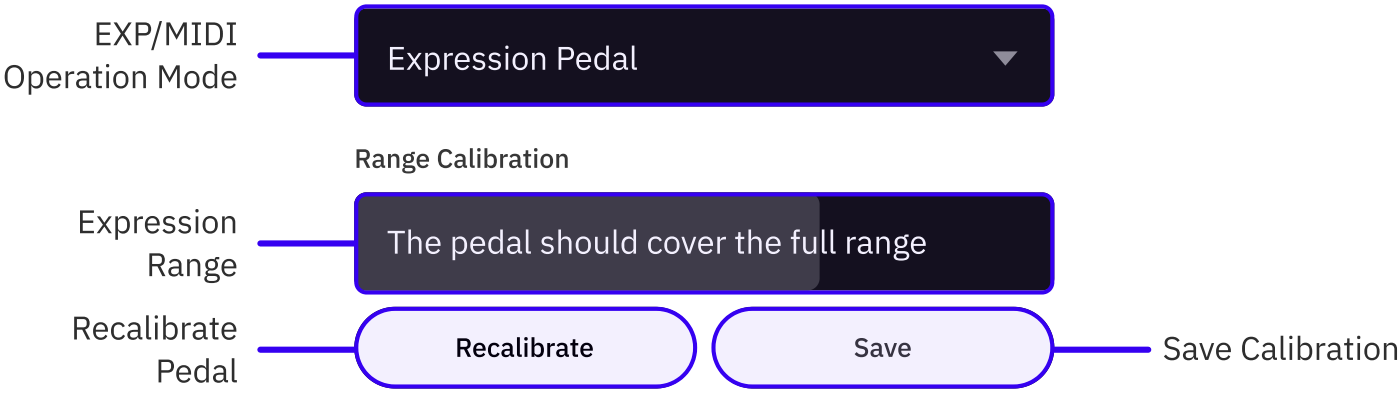
EXPRESSION PEDAL CALIBRATION



To ensure Nano Cortex responds to your expression pedal’s full sweep range, it may be necessary to calibrate it during the first use via the **Settings** screen.

1. Place the expression pedal on the surface where it will be used and connect it to the Nano Cortex's EXP/MIDI input using a **TRS cable**.
2. Tap **RECALIBRATE**.
3. Rock the expression pedal back to its heel position and all the way down to its toe position.

4. Tap **SAVE**.

Expression pedal calibration settings remain active until a new calibration is performed.

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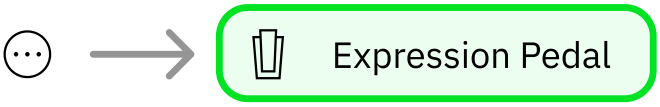
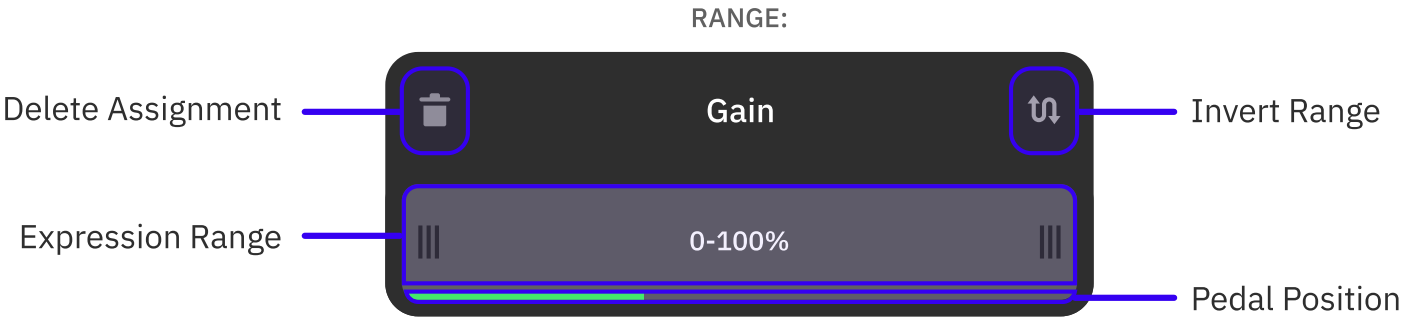
EXPRESSION PEDAL ASSIGNMENTS



Tap the contextual menu button at the app's upper-right corner and tap **Expression Pedal**.

You can assign an expression pedal to control the range and bypass state of multiple parameters.

- **PARAMETER RANGE**

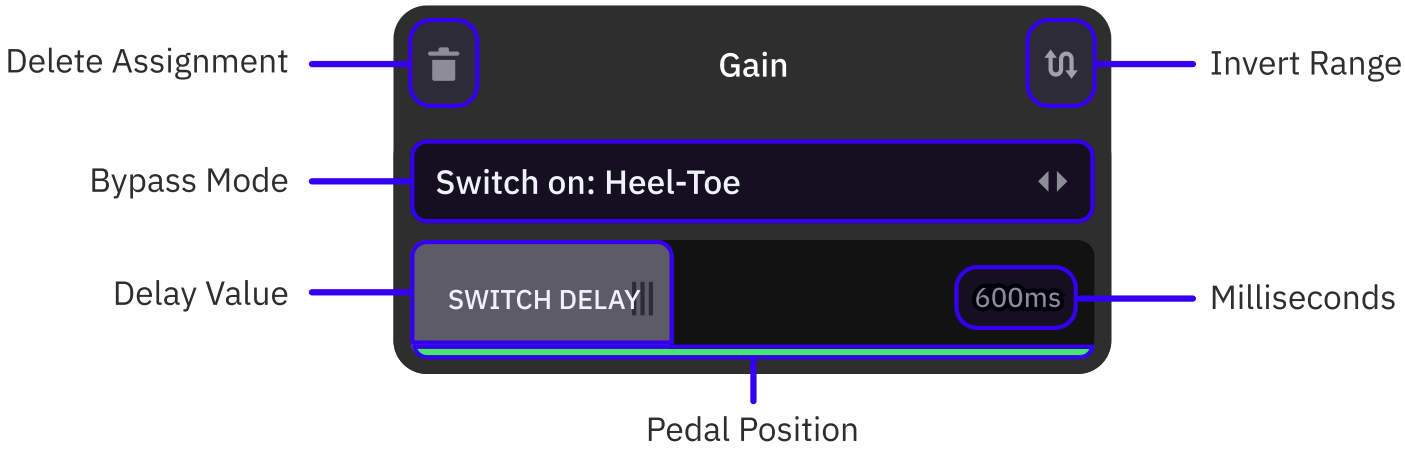


GAIN, **BASS**, **MID**, **TREBLE**, **AMOUNT**, and **LEVEL** knobs.

1. Tap the parameters you want to control via the expression pedal. Multiple parameters can be assigned at the same time.
2. By default, the expression will range from **0** to **100%**. Drag the edges of the bar to limit its range.
3. Tap the top-right button to **reverse** the expression behavior, swapping the heel and toe positions.
4. Alternatively, tap the top-left button to **delete** the assignment.

- **SLOT BYPASS**

BYPASS:



CAPTURE, **IR LOADER**, and **EFFECTS** slots.

1. Tap the parameters you want to bypass via the expression pedal. Multiple parameters can be assigned at the same time.

2. Tap the '**Switch on**' field to navigate through bypass modes.

   SWITCH: Pressing the expression pedal toe switch will bypass/engage the slot. Activate the **Latch Emulation** feature to modify the behavior of momentary toe switches emulating a latching response.

   STOP: Keeping the expression pedal still will bypass the slot. Drag the **SWITCH DELAY** bar to set the time it takes for the slot to be bypassed.

   HEEL-TOE: The slot will be bypassed when the expression pedal is at heel position. Drag the **SWITCH DELAY** bar to set the time it takes for the slot to be bypassed (up to 2000ms).

3. Tap the top-right button to **reverse** the expression behavior, swapping the heel and toe positions.

4. Alternatively, tap the top-left button to **delete** the assignment.

• • •

EXPRESSION PEDAL SUPPORT

Nano Cortex is compatible with any expression pedal that meets the following requirements:

- **TRS CONNECTOR**: Single TRS expression output. Wah or Volume outputs are not supported.
- **CURVE**: Pedals with linear and logarithmic curves will work properly after being calibrated during the first use.
- **TOE-SWITCHES**: Optional feature. Latching and Momentary switches are supported. Momentary switches will work only when the Nano Cortex Latching Emulation feature is active.

- **ADDITIONAL CONTROLS**: Optional feature. Range control knobs and polarity switches are also supported.

Firmware Updates

Nano Cortex's operating system is called **NanOS**. Keeping NanOS up to date improves the functionality, security, and overall user experience of your Nano Cortex.

Ensure that the Nano Cortex is properly paired with your smartphone and that your Internet connection is stable.

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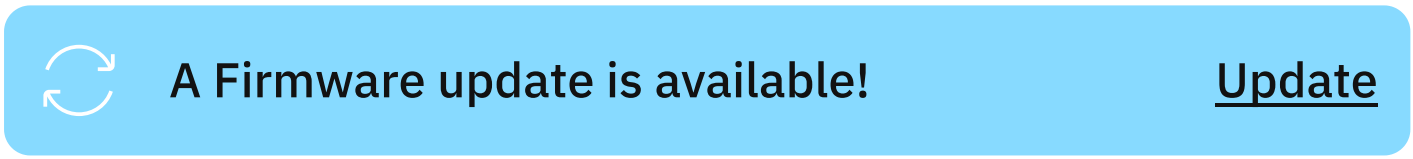
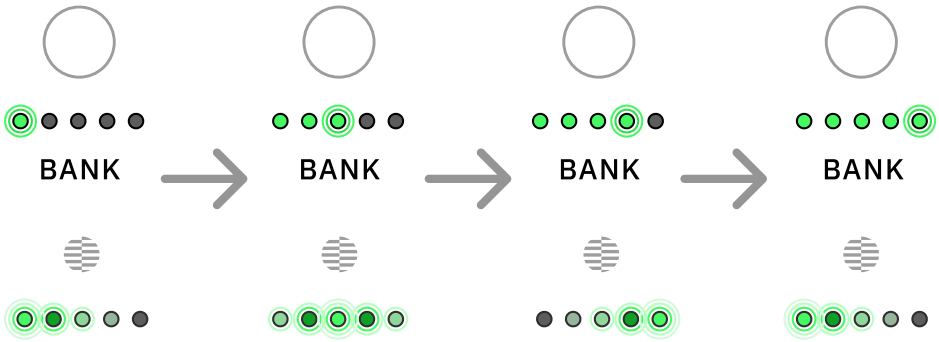
UPDATE PROCESS



A banner will appear at the top of the app screen whenever a NanOS update is available.

1. Tap **Update** at the right side of the banner.
2. Follow the instructions on screen. Tap **UPDATE** to start the download process.



Nano Cortex's **BANK** and **CAPTURE** LEDs will reflect the download progress. Once the download completes, please wait a few minutes for your Nano Cortex to finish the installation.

After the setup, Nano Cortex will reboot and automatically reconnect to your smartphone.

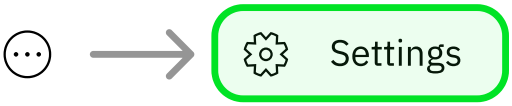
FIRMWARE UPDATE PRECAUTIONS

The update may take a few minutes to complete.

Ensure your Nano Cortex is close to your smartphone during this process. To prevent installation issues, avoid locking your smartphone, disabling Bluetooth, minimizing or closing the Cortex Cloud app during the update.

Device Settings

The Settings screen allows you to control most aspects of your Nano Cortex.



Tap the contextual menu button at the app's upper-right corner and tap '**Settings**' to access the Nano Cortex Settings screen.

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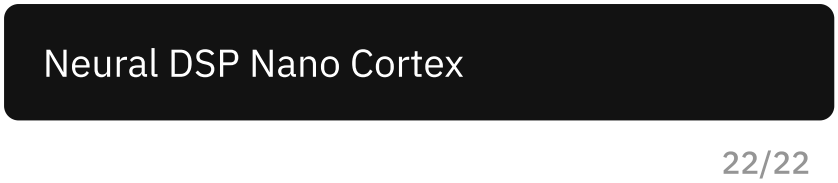
NANO CORTEX SETTINGS SCREEN

- **DEVICE NAME**

Device Name



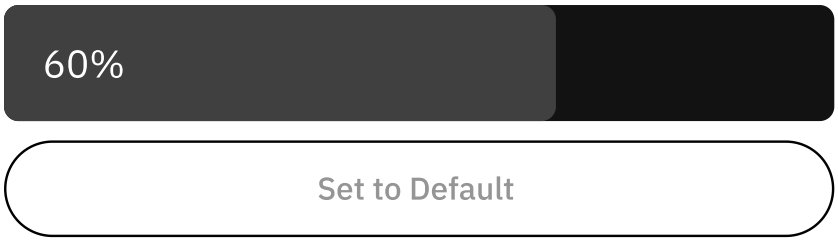
Assign a custom name for your Nano Cortex (up to 22 characters).

- **STORAGE**

User Neural Captures User Impulse Responses

Available storage on your Nano Cortex.

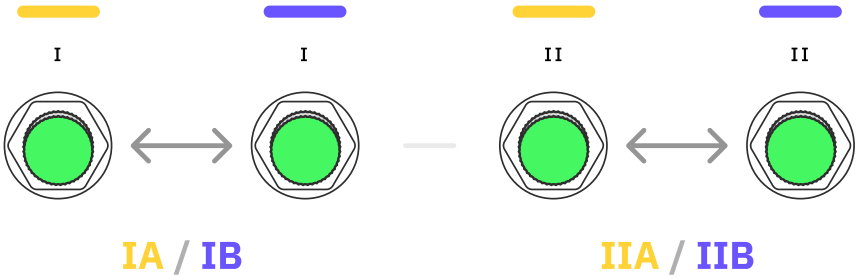
- **LED BRIGHTNESS**



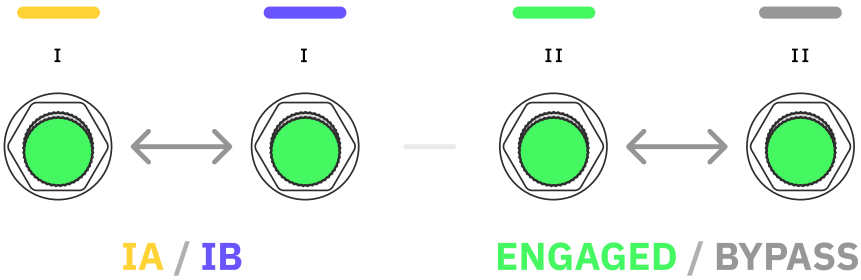
Drag the slider to set the LED brightness of your Nano Cortex (60% by default).

- **PRESET OPERATION MODE**

4-PRESET MODE



2-PRESET MODE



Enable **4-Preset Mode** to assign Presets to both Footswitches I and II (IA, IB, IIA, and IIB).

If this setting is disabled, Nano Cortex will operate in **2-Preset Mode**, allowing only Footswitch I to recall Presets (A and B) while Footswitch II will function as a global bypass switch.

- **KNOB OPERATION MODE**

Catch Knobs Instantly

By default, the Nano Cortex knobs adjust parameters immediately when turned. If this setting is disabled, 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.

- **EXP/MIDI INPUT BEHAVIOR**

MIDI

Expression Pedal

Tap to toggle the EXP/MIDI Input functionality between **MIDI** and **Expression Pedal**.

- **ABOUT**

NanOS version: 1.1.0

Serial Number: NA00AA000

Current NanOS version and device serial number. The Nano Cortex serial number is also engraved on the bottom of the device.

- **FACTORY RESET**

Factory Reset

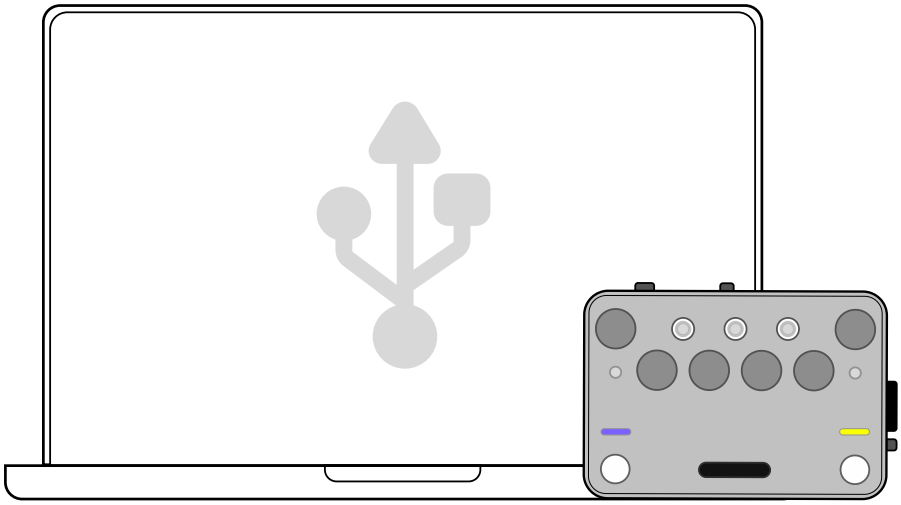
Performing a factory reset will remove all user content from the device.

WARNING

Performing a factory reset will remove all user data including Neural Captures, Presets, and Impulse Responses from the device.
This action cannot be undone.

07
Computer Integration

Nano Cortex can function as an audio interface by connecting it to your computer via USB.



USB Audio Setup

Nano Cortex can be utilized as a USB 2.0, 24-bit, 48kHz (Fixed), low-latency audio interface for Windows® and Mac® computers.

Connect your Nano Cortex to your computer via the **USB-C** cable included in the box.

Power Sources

Click to access a deeper overview of the USB-C specifications.

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MACOS® SETUP

1. Connect your Nano Cortex to your computer.
2. Go to 'System Preferences', 'Sound', and set Nano Cortex as the main Input and Output device of your computer.
3. Set the monitoring volume via the computer audio controls.

WINDOWS® SETUP

1. Download the driver installer from our website (Downloads).
2. Run the installer. Reboot your computer after the setup.
3. Connect your Nano Cortex to your computer.
4. Go to 'Control Panel', 'Hardware and Sound', 'Sound', and ensure your Nano Cortex is set as the default Playback and Recording device of your computer.
5. Set the monitoring volume via the computer audio controls.

The Nano Cortex driver will be installed in the following path location: **C:\Program Files\NeuralDSP\Nano Cortex Driver**

Windows® ASIO Driver

For USB audio on Windows® computers, it is necessary to download and install the Nano Cortex ASIO® driver from our website. There is no driver installation necessary for Mac® computers.

USB Channels

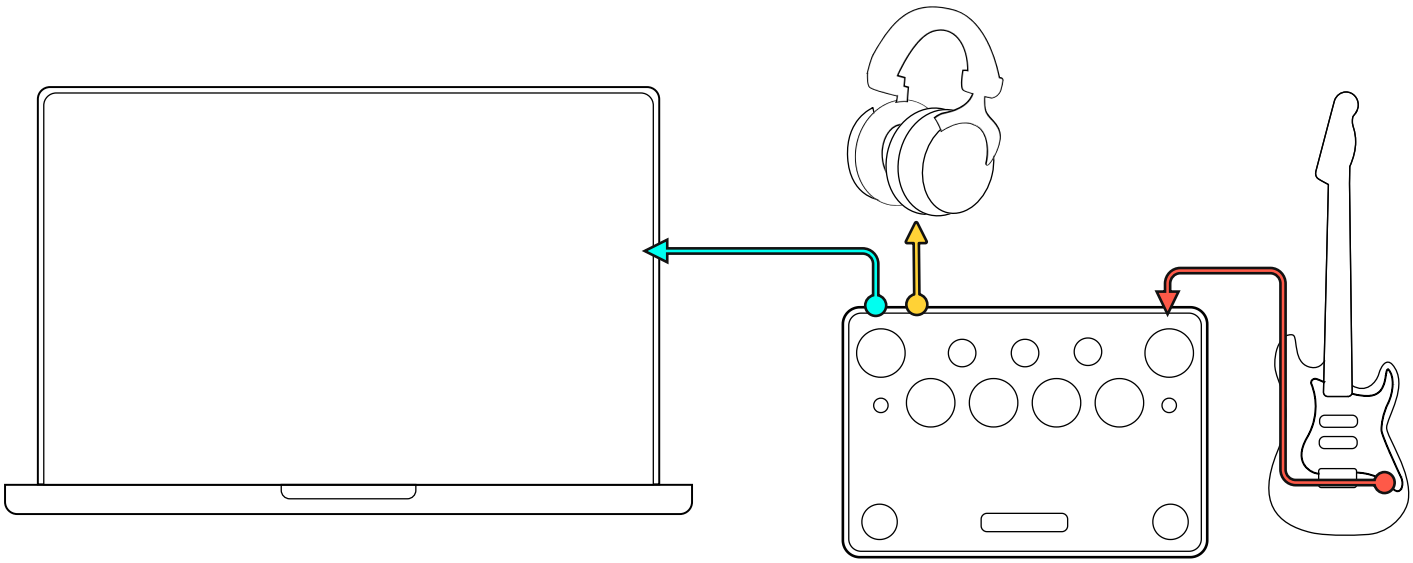
Nano Cortex features 7 USB Channels (4IN/3OUT).

USB CHANNEL	DESCRIPTION	NANO CORTEX
INPUT 1	Dry Input (D.I.) signal from analog **INPUT** and **CAPTURE INPUT** to host. Select **INPUTS 1/2** on your DAW to record D.I. signal.	From **INPUT**
INPUT 2		From **CAPTURE INPUT**
INPUT 3	Processed signal from analog **OUTPUT 1L** and **2R** to host. Select **INPUTS 3/4** on your DAW to record processed audio signal.	From **OUTPUT 1L**
INPUT 4		From **OUTPUT 2R**
OUTPUT 1	Playback from the host through **OUTPUTS 1L** and **2R**. Select **OUTPUTS 1/2** on your host to hear playback through Nano Cortex's **OUTPUTS 1L**, **2R**, and **HP OUT**.	To **OUTPUT 1L**
OUTPUT 2		To **OUTPUT 2R**
OUTPUT 3	Manual route from the host to Nano Cortex's **INPUT**. Select **OUTPUT 3** on your DAW to reamp audio tracks through Nano Cortex.	To **INPUT**

Host Monitoring

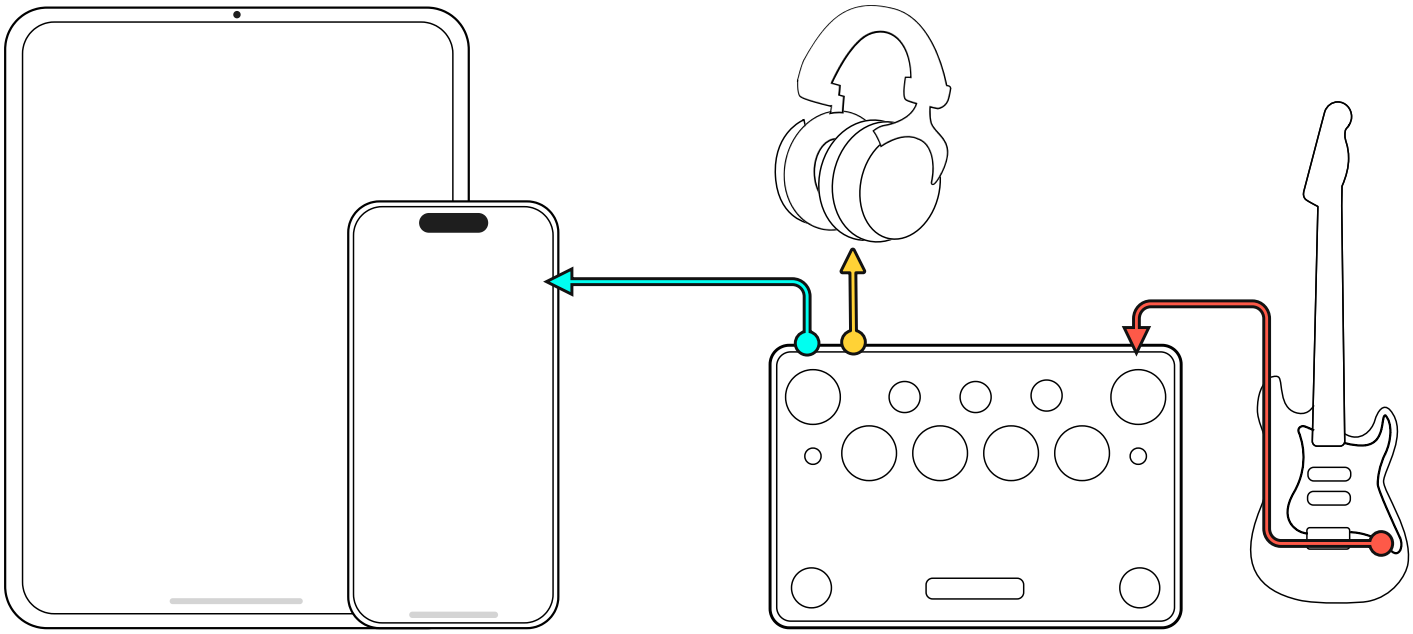
D.I. and processed signal recording

Nano Cortex allows you to record dry and processed signals simultaneously. Connect your instrument to **INPUT** and ensure Nano Cortex is selected as the default audio interface on your computer.



1. Open your DAW, create a mono audio track, and set its input as **Input 1** (Dry input signal).
2. Create a stereo audio track and set its input as **Input 3/4** (Processed signal from analog OUTPUT 1L and 2R).
3. Arm both tracks for recording.
4. To reamp a recorded D.I. track, set its output as **Output 3** (To Nano Cortex's INPUT), create a new stereo track (Input 3/4), and arm it for recording.

Connecting Nano Cortex to an iPhone® or iPad®

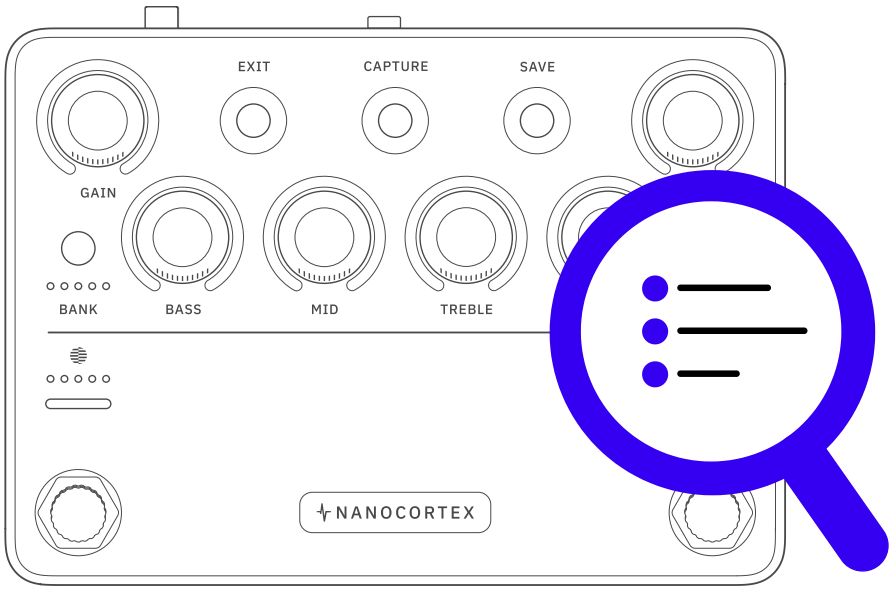


You can use any class-compliant USB audio device with an iPhone® or iPad®. Nano Cortex can be connected to those devices via a USB-C cable (iPhone 15 or later).

iPhone 14 and older generations will need the **Apple® Lightning to USB-C Camera Adapter** to recognize Nano Cortex as an external microphone device.

This feature allows you to use Nano Cortex with audio apps like GarageBand® for recording purposes.

08
Hardware Specifications



Factory Content

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NEURAL CAPTURES

BANK 1 (Clean):

1. CA John's Ch1 1 (Mesa Boogie® JP2C® Ch1)
2. Comet 60 5 (Komet® 60)
3. Bogna X100B Ch1 1 (Bogner® Ecstasy 100B® Ch1)
4. Watt Custom Clean 7 (Hermansson Hiwatt® Custom PA100® Clean)
5. US HRDLX ChA 6 (Fender® Hot Rod Deluxe® Channel A)

BANK 2 (Edge):

1. Comet 60 6 (Komet® 60)
2. NoMatch Chief 1 (Matchless® Chieftain®)
3. US Prince 65 4 (Fender® Princeton® 65)
4. Watt Custom VH 1 (Hermansson Hiwatt® Custom PA100® VH)
5. D-Cell H4 Ch2 1 (Diezel® VH4® Ch2)

BANK 3 (Crunch):

1. Bogna Fish+290 5 (Bogner® Fish®) + (Mesa® Boogie® Stereo Simul-Class™ 2: Ninety™)
2. Brit 2555 Rhy 12 (Marshall® Silver Jubilee® 2555 Rhythm)
3. Custom 3SE+290 2 (Custom Audio Amplifier® 3+SE®) + (Mesa® Boogie® Stereo Simul-Class™2: Ninety™)

4. D-Cell H4 Ch3 3 (Diezel® VH4® Ch3)
5. ENG Energy 3 (ENGL® Powerball® Mark I)

BANK 4 (High Gain):

1. Bogna X100B Ch3 Lead 18 (Bogner® Ecstasy 100B® Preamp Ch3 Lead)
2. CA Studio+290 2 (Mesa® Boogie® Studio Preamp®) + (Mesa® Boogie® Stereo Simul-Class™2:Ninety™)
3. CA John's Ch3 7 (Mesa Boogie® JP2C® Ch3)
4. PV 505Sig 7 (Peavey® 5150® Signature)
5. Brit 2555 Lead 1 (Marshall® Silver Jubilee® 2555 Lead)

BANK 5 (Bass):

1. Aggi 751 31 (Aguilar® DB751®)
2. Amped SV Classic 3 (Ampeg® SVT Classic®)
3. Rodent+SV 3 (ProCo® Rat®) + (Ampeg® SVT Classic®)
4. CA MixBass 3 Amp2 (Mesa® Boogie® M6 Carbine®) + (Big Block 750®)
5. Anima Fuzz 8 (Human Gear® Animato®)

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IMPULSE RESPONSES

1. 110 US PRN C10R (Fender® Princeton® with Jensen® C10R drivers)
2. 112 UK C15 Blue (Vox® AC15® with Celestion® Alnico Blue drivers)
3. 115 Amped Modern (Ampeg® SVT® 115HE®)
4. 212 Match D30 Sig A (Matchless Amplifiers® DC30® Sig A)
5. 212 US TWN C12Q 00s (Fender® Twin Reverb® with Jensen® C12K-2 drivers)
6. 412 Brit TV GB75Hz '69 (Marshall® 1960TV® with Celestion® G12M25 drivers)

7. 412 CA Stand OS A V30 ’01 (Mesa® Standard OS Angled with Celestion® Vintage 30 drivers)
8. 412 CA Trad S UKV30 90s (Mesa® Traditional Straight with Celestion® Vintage 30 drivers)
9. 412 Zila Cust V30 ’12 V2 (Zilla® Custom with Celestion® Vintage 30 drivers)
10. 810 Amped VT Aln 70s (Ampeg® SVT® 810® with custom Eminence® ceramic drivers)

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EFFECTS

1. Adaptive Gate (Pre FX)
2. Transpose (Pre FX)
3. Chief DC2W (Post FX)
4. Analog Delay (Post FX)
5. Mind Hall Reverb (Post FX)

Factory Reset

WARNING

Performing a factory reset will remove all user data including Neural Captures, Presets, and Impulse Responses from the device.
This action cannot be undone.

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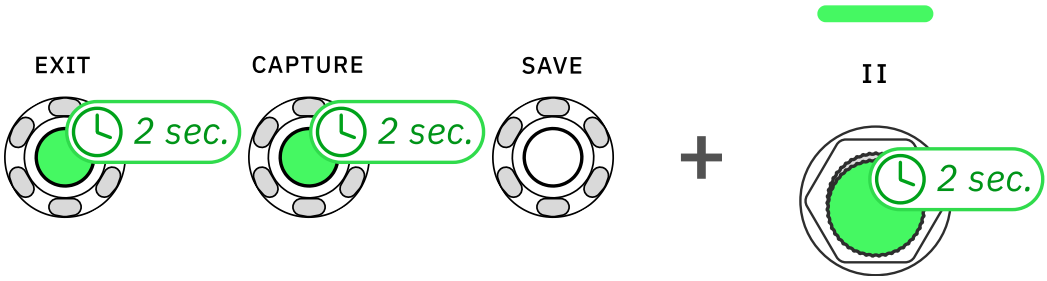
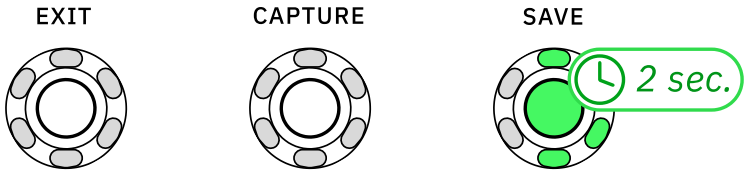
FACTORY RESET PROCESS



Press-and-hold **EXIT**, **CAPTURE**, and **Footswitch II** for 2 seconds.

The LEDs will light up. **GAIN**, **Footswitch I** and **II** will turn blue.



While the LEDs are lit, press-and-hold **SAVE** until the Nano Cortex reboots.

All user data will be then removed.

I/Os & General Information

INSTRUMENT INPUT

- CONNECTOR: 1/4 TRS-F
- IMPEDANCE: 1MΩ
- MAX INPUT LEVEL: +10dBu

COMBO CAPTURE INPUT

- CONNECTOR: XLR-F + 1/4 TRS-F
- TS IMPEDANCE: 1MΩ
- XLR IMPEDANCE: 45kΩ
- MAX INPUT LEVEL: +10dBu
- BOOST GAIN: +26dB

TRS OUTPUTS 1L/2R

- CONNECTOR: (2) 1/4 TRS-F
- IMPEDANCE: 560Ω
- MAX OUTPUT LEVEL: +10dBu (Unbalanced) / +16dBu (Balanced)

HEADPHONES OUTPUT

- CONNECTOR: 3.5MM TRS-F
- MAX OUTPUT POWER: 55mW into 20Ω

EXP/MIDI INPUTS

- EXPRESSION CONNECTOR: 1/4 TRS-F
- MIDI CONNECTOR: MIDI TRS Type A

USB AUDIO

- FORMAT: USB Audio Class 2.0 Compliant
- CHANNELS: 7 (4IN/3OUT)
- AUDIO CLOCK: 48 kHz (FIXED)

GENERAL

- FINISH: Anodized aluminum unibody
- CONTROLS:
  2 Stainless Steel Stomp + Rotary Footswitches
  7 Knobs
  2 Analog Switches
  5 Digital Switches
- DIMENSIONS: 14.4 x 10.3 x 6.2 cm / 5.6 x 4.0 x 2.4"
- WEIGHT: 620g / 1.36lbs
- INPUT VOLTAGE:
  9-12V DC 600mA (Center Negative)
  USB-C 5V, 1.5A or higher

ENVIRONMENTAL INFORMATION

- OPERATING TEMP: 0 to 50 °C (32 to 122 °F)
- STORAGE TEMP: -10 to 70 °C (14 to 158 °F)
- HUMIDITY: Maximum non-condensing

SUPPORT

CAREERS

NEWS

KNOWLEDGE BASE

PLUGINS

Downloads

Mesa Boogie Mark IIC+ Suite

Archetype: Rabea

Tone King Imperial MKII

Archetype: Petrucci

View all

test

HARDWARE

Quad Cortex

Cortex Cloud

Downloads

Find a dealer

COMMUNITY

Artists

Discord

Forum

LEGAL

Privacy Policy

Terms of Service

Refund Policy

Terms of Use Cortex Cloud

Digital Millennium Copyright Act (DMCA)

Quad Cortex Warranty Policy

Neural DSP®, Neural Capture®, Capture®, Quad Cortex®, Archetype®, Algorithmically Perfect®, and Nameless® are registered trademarks of Neural DSP Technologies Oy.

Regulation Statements

FCC statements

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
RF exposure statements
1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

ISED statements

Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
Déclaration d'exposition aux radiations:
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference
that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage
radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.