

X1 + C1 - For Certification

X1 & C1

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RF Exposure Statement

3 Important Safeguards & Cautions

3.1 Warning:

To reduce the risk of fire or shock, do not expose this product to water, rain, or moisture.

Do not expose the SUBPAC to direct sunlight or extreme temperatures.

Children under 13 should not set up and/or use this product without adult supervision.

Listening to audio at high volumes may lead to hearing loss, moderate listening volumes are recommended.

Do not wash or soak the unit in water. If the cover becomes wet, disconnect power immediately and do not use it until totally dry.

To avoid injury or death from electrical shock, never open the control box or remove the cover.

Always unplug the device from the electrical outlet before cleaning.

Do not reach for your SUBPAC if it falls into water, unplug it from the wall immediately.

Your SUBPAC device should never be left unattended when plugged in. Unplug it from the power outlet when not being used and before putting it on.

Electrical products containing batteries should not be disposed of directly into the trash. Please dispose of them properly by bringing them somewhere to be recycled or safely disposed of such as your local household hazardous waste collection facility. Check with your local waste management agency for a location in your area.

Use this appliance only for its intended use as described in this manual. Do not use attachments not recommended by SUBPAC; specifically, any attachments not provided with the unit.

1. NEVER operate this device if it has a damaged cord or plug, is not working properly, has been dropped or damaged, or submerged in water.
2. Keep the cord away from heated surfaces.
3. NEVER drop or insert any object into any opening.
4. DO NOT operate under a blanket or pillow. Excessive heating could occur causing fire, electrocution or personal injury.
5. DO NOT carry this device by the power cord or use the power cord as a handle.
6. To disconnect, power off the device, then remove the plug from the outlet.

This product is not intended for any medical use.

Consult your doctor prior to using this product if:

- You are pregnant, or could possibly be pregnant
- You have a pacemaker
- You have any concerns regarding your health

Not recommended for use by diabetics.

Never leave the device unattended, especially if children are present.

Never cover the device when it is in operation.

Extensive use, especially with a high-intensity setting, could lead to the device excessively heating.

Should this occur, discontinue use and allow the unit to cool before operating again.

Never use this product directly on swollen or inflamed areas or skin eruptions.

4 Welcome to SUBPAC!

Congratulations on your purchase of the SUBPAC X1!

Your SUBPAC is a high-fidelity tactile bass system that quietly and accurately transfers low frequencies to your body. You will now be fully immersed in the physical dimensions of sound, a powerful and natural extension of the traditional audio experience.

If you also purchased the SUBPAC C1, our Pro-studio control module, see the *SUBPAC C1 Online Owner's Manual* for setup and operating instructions.

For your safety, follow all important safeguards, warnings, and instructions in this manual.

For more information, visit www.subpac.com¹. Please submit a support ticket to our SUBPAC Bass Specialists if you need further assistance.

ENJOY THE BASS!

¹ <http://www.subpac.com/>

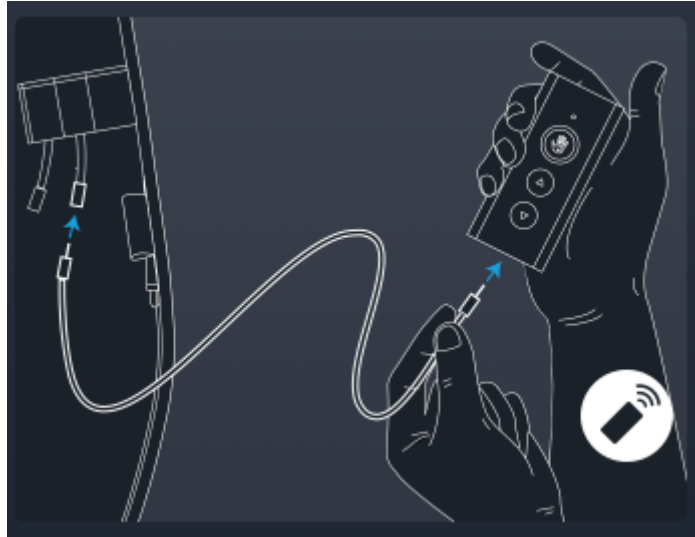
5 What's In the Box?



1. SUBPAC X1 Tactile Bass System
2. Modular Strapping System
 - a. Seated Straps - show with chair
 - b. Wearable Straps (shoulders, waist) - show on own with straps
3. 2 x USB-C ports on SUBPAC X1
 - a. 1 x Audio Data
 - b. 1 x Power
4. Power ON/OFF Switch (on-state indicated by LED)
5. Remote Control I/O
 - a. USB-C cable
6. 45w USB-C Charger with international Adapters (EU, UK, USA)
7. 3.5mm Auxiliary Cable
8. Quick Start Guide & Warranty Information
9. SUBPAC Mobile App QR code

6 Connect the Remote Control I/O

Plug the USB-C cable from the SUBPAC X1 audio data port into the bottom of the Remote Control I/O.



(Enhance this illustration slightly to make it clear that the SUBPAC data port (?) is part of the unit, and that's what the cord plugs into).

Once you are ready, use the Remote Control I/O to control the SUBPAC X1:

- Wake up & Connect the SUBPAC X1.
- Control tactile intensity and audio levels with the + (up) and - (down) buttons.
- Toggle between input modes

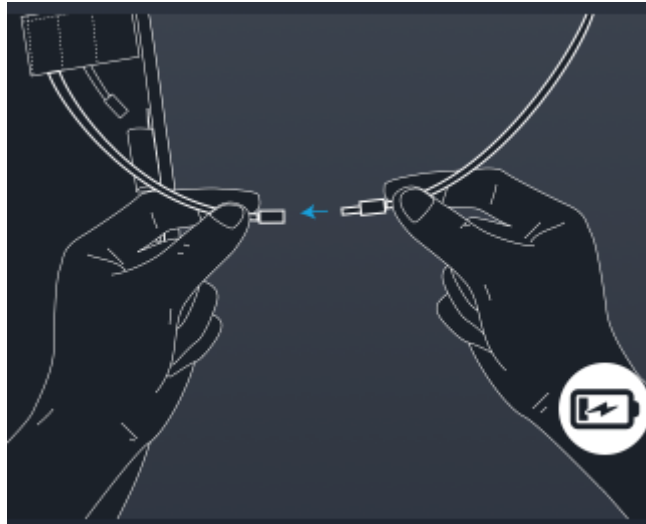
The Remote Control I/O LED indicator colors show the range of indicators available with the SUBPAC X1:



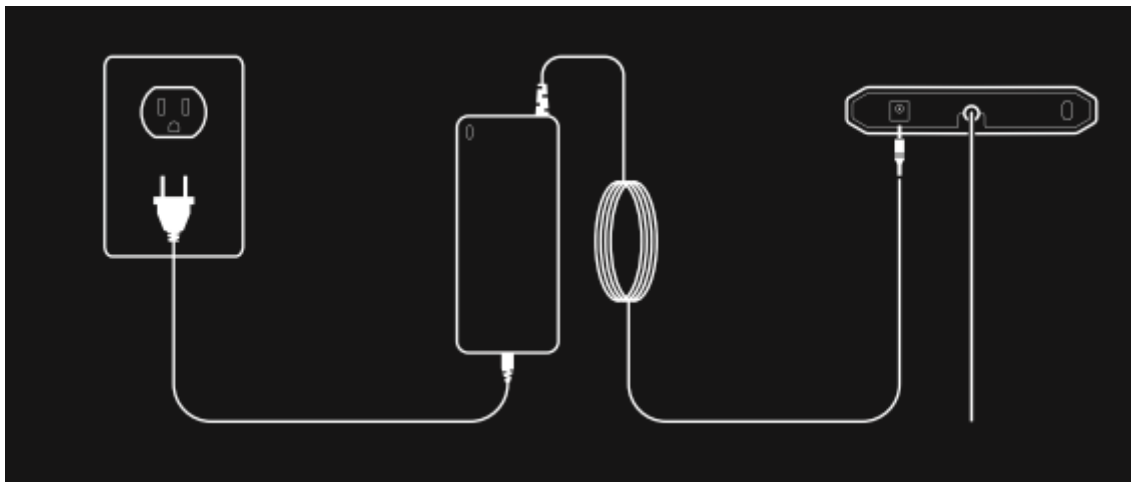
7 Charge Your SUBPAC X1 Device

Use the included 45W USB-C charger to charge your SUBPAC X1.

1. Plug the USB-C cable into the SUBPAC X1 charging port.



1. Plug the 45W USB-C charger into a power outlet.



(note international adapters US, UK, EU) IECC-7 Connector)

(To show USB-C cable input in X1 charging port, enhance this illustration a bit to make it clear that the SUBPAC charging port is part of the SUBPAC unit; perhaps also showing the mini remote when attached).

NOTE: You can charge the SUBPAC X1 while it's in use.

As your unit charges, the Remote Control I/O LED indicator shows the following colors for each status.

LED Indicator	Status
• (Breathing)	Charging
• (Solid)	Significantly Charged (% available in App)
• (Blinking)	Critically low charge

NOTE: You can view battery level on either on the SUBPAC mobile app or, if you are using the SUBPAC C1, on the C1 desktop app.

7.1 How Long Does Your Battery Last?

The SUBPAC X1 has an extended battery capacity for 6-8+ hours of use. Actual time may vary based on how hard you drive the system.

You can view battery levels with your [SUBPAC X1 mobile app](#) or by using the SUBPAC C1 desktop software, if you purchased our SUBPAC tactile monitoring system.

8 Configure the Mobile App

Before using the SUBPAC X1 for the first time, download and install the SUBPAC app on your mobile device, then configure the connection between your SUBPAC and the mobile app.

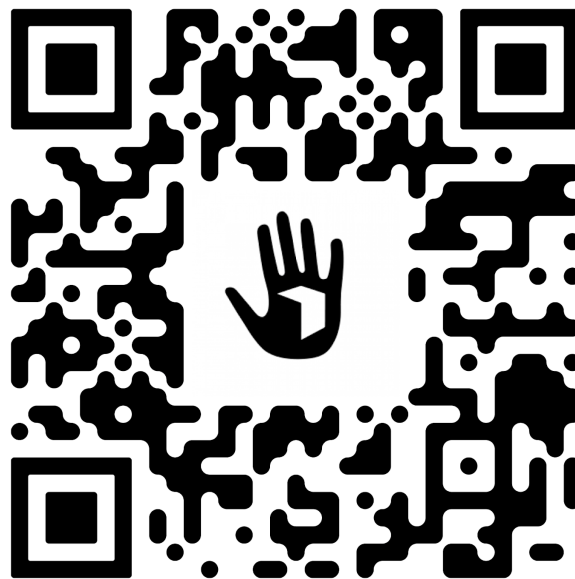
After a successful connection between your SUBPAC X1 and the SUBPAC mobile app, you can use the mobile app controls to control your SUBPAC X1 for a full audio and tactile experience.

Note: If you cannot use the SUBPAC mobile app, use the Remote Control I/O to control your SUBPAC X1. (advanced functionality with app)

[There are notes, cautions, warnings, in this document. Perhaps all these could be replaced by icons? Perhaps icons showing a note for notes, a lightning stroke for warnings, and exclamation point for cautions.]

8.1 Download and Install the SUBPAC Mobile App

1. Use your mobile app QR reader to scan this QR code:



Note: The QR code also appears on your SUBPAC packaging, and the Quick Start Guide.

1. When the SUBPAC webpage appears, download the app. You are now ready to initiate BLE pairing.

8.2 Initiate BLE Pairing

SUBPAC X1 uses two Bluetooth protocols:

- BLE: For command transmissions between the SUBPAC X1 and your mobile app.
- BT A2DP: For audio transmission from your Bluetooth audio device to your SUBPAC X1 unit.

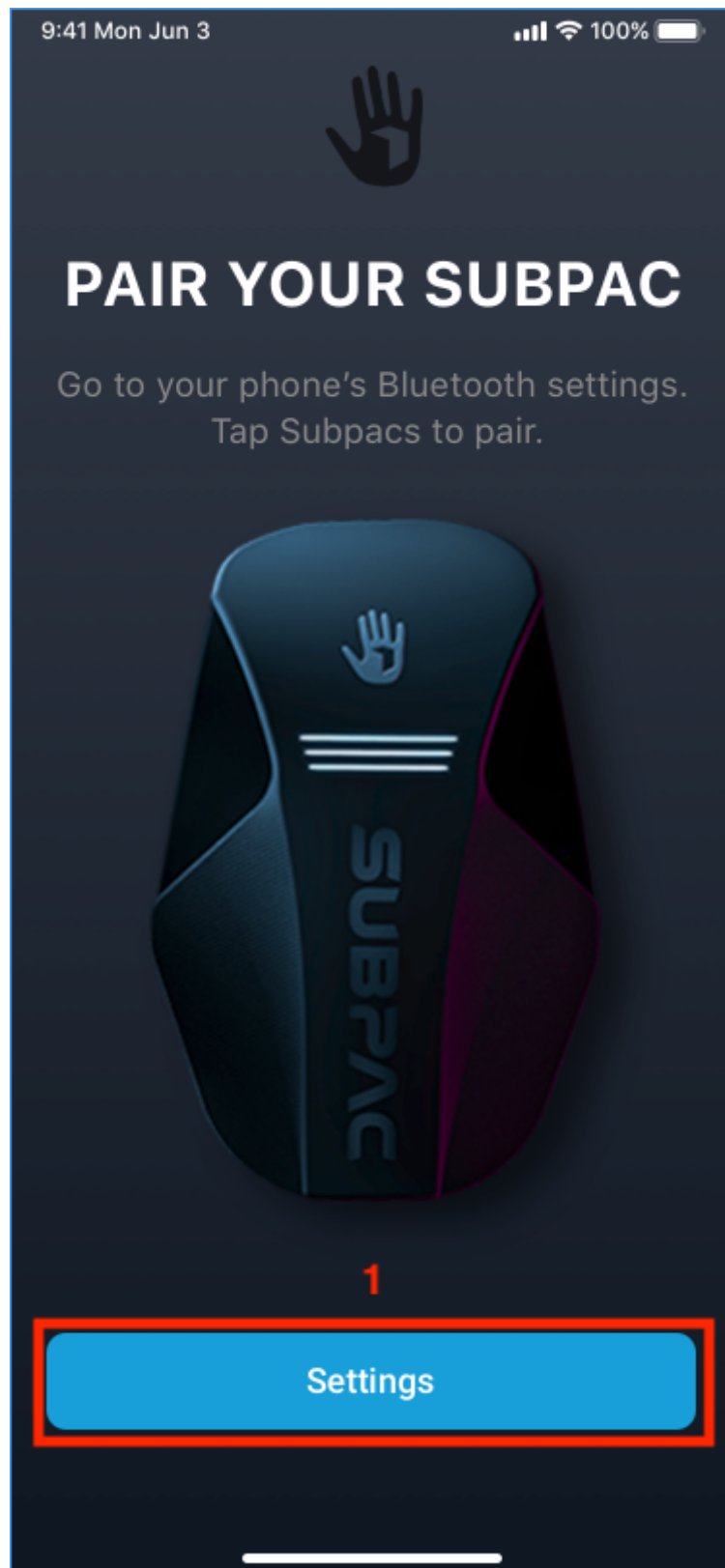
To initiate pairing between your SUBPAC X1 and newly installed mobile app, you use the BLE protocol.

Note: For successful pairing, first charge your SUBPAC X1.

1. In your SUBPAC app, click the **Get Started** button.

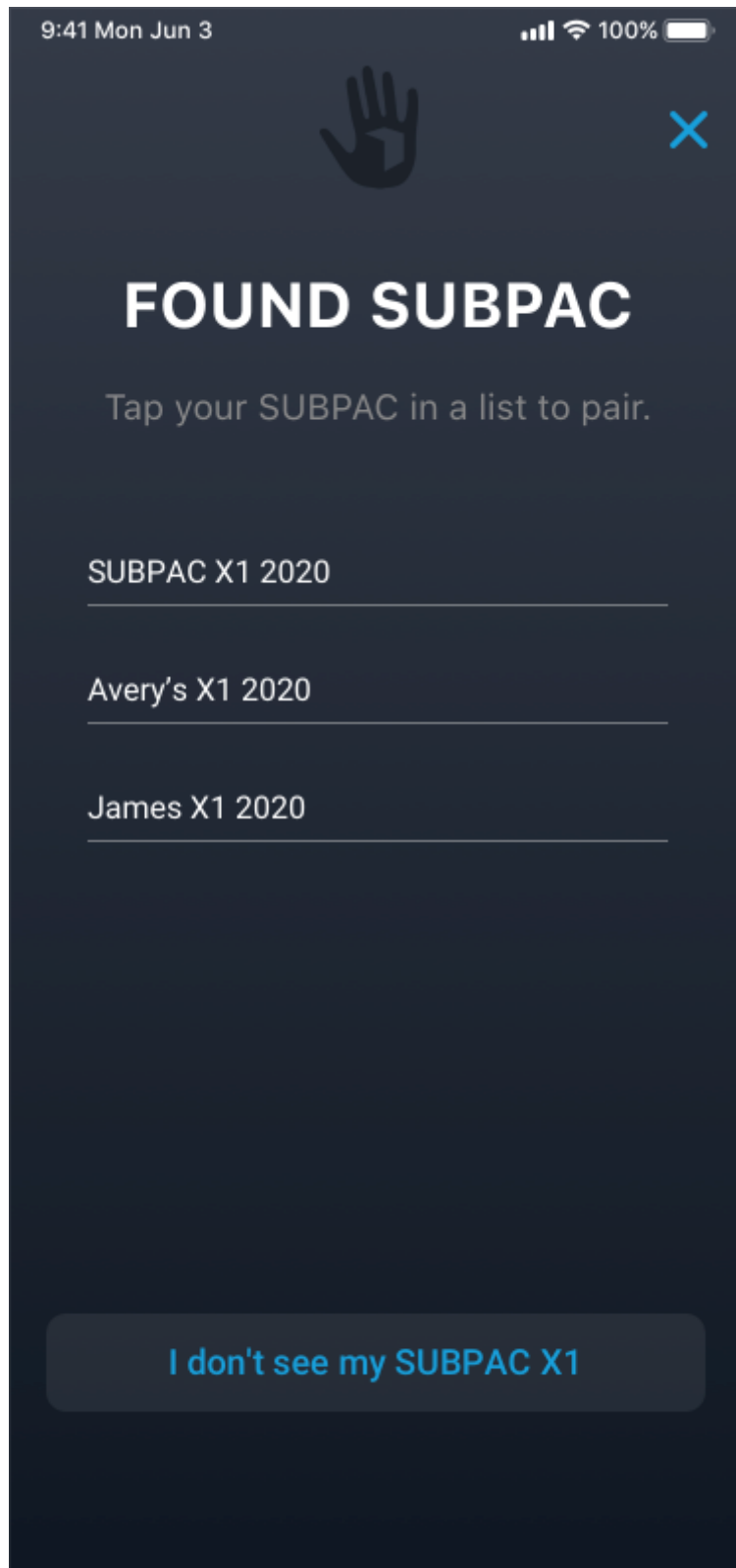


1. To initiate the Bluetooth LE pairing process, click **Settings**.



(Note, remove the “1”, since it’s the only item highlighted)

The app searches for available SUBPAC X1 devices until it finds and lists them on your app. Unregistered and/or new SUBPAC X1 devices do not have names until you name them.



Note: If you charged your SUBPAC X1 or it is charging, and you still do not see your SUBPAC X1 on the device list, click **I don't see my SUBPAC X1**. You'll be directed to the [SUBPAC customer support page](#)².

1. To connect, click your SUBPAC X1 device in the list.
2. Once the mobile app establishes the connection, follow the prompts to complete your device registration: name the device, provide your email address, and enter your device's unique serial number.

The completed **Registration** screen displays.

² <https://docs.google.com/document/d/1T3tKN0TMCYTSXKU0rzGxBQsbseAZVnZM9gtMrTDj8dw/edit#heading=h.7u835d9lqi1o>

9:41 Mon Jun 3 100%

REGISTRATION

Please register your SUBPAC and enter your information.
Make sure that internet connection is successful.

1

NAME

EMAIL

SERIAL

SN0000000000001

Save

(Note, remove the “1”, since it’s the only item highlighted)

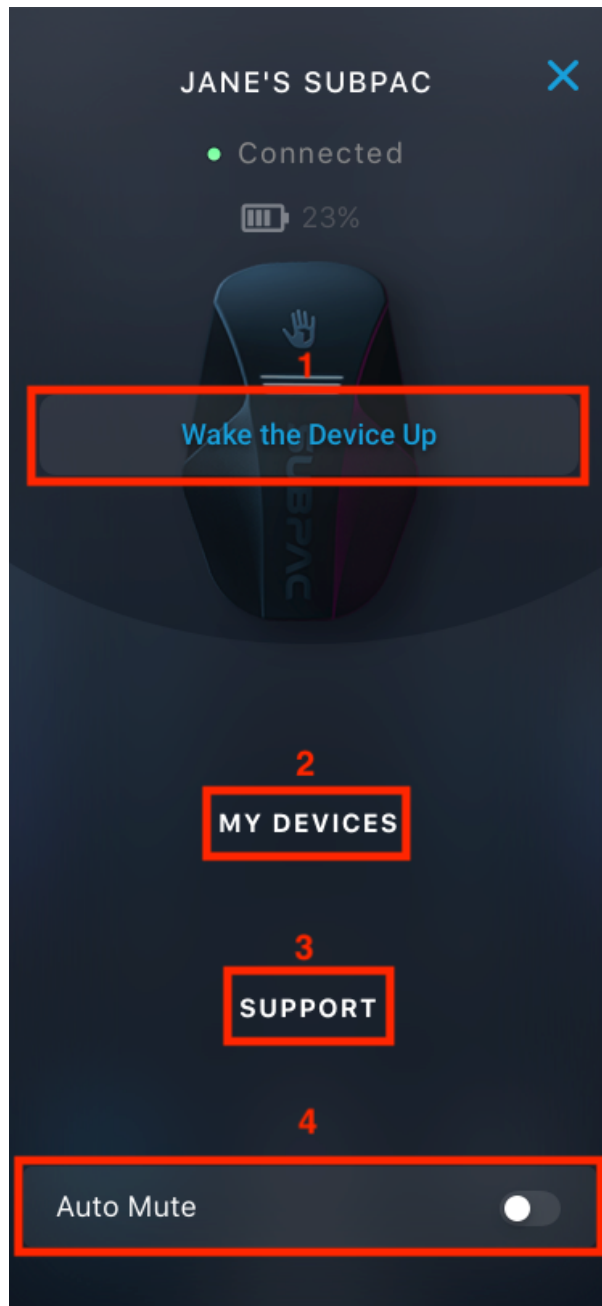
1. Click **Save**.

Your SUBPAC X1 is now connected, registered, and ready to use!

8.3 SUBPAC X1 Mobile App Screens

Your SUBPAC X1 mobile app screens allow you to complete tasks or view data about your SUBPAC X1.

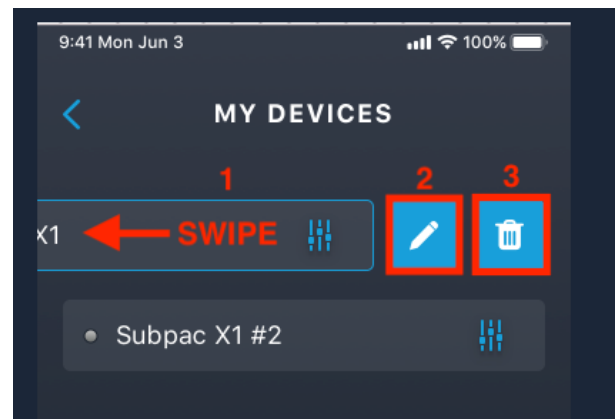
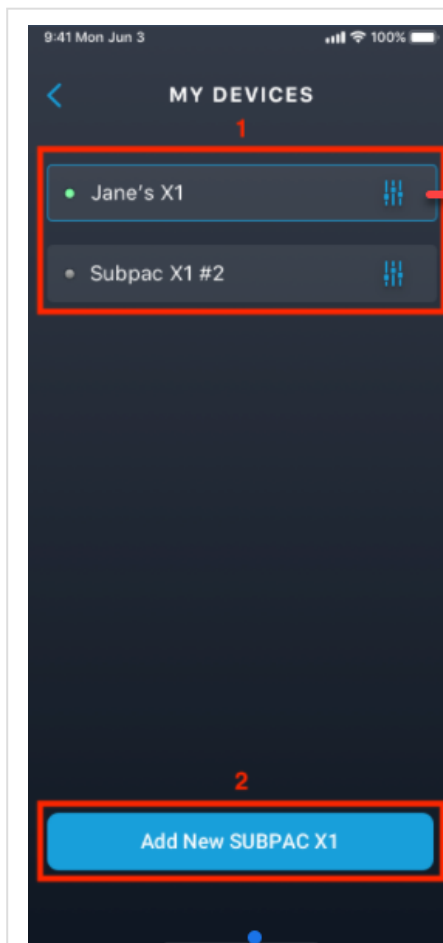
8.3.1 Main Menu



Annotate the illustration as follows:

- 1 - Click to wake up your device.
- 2 - Click to connect, remove, edit, and control your devices.
- 3 - Click to contact the SUBPAC customer support options.
- 4 - Toggle **Auto Mute** on (**green**) to control whether pressure sensors mute your SUBPAC X1 when you are not resting against it. By default, **Auto Mute** is off (white).

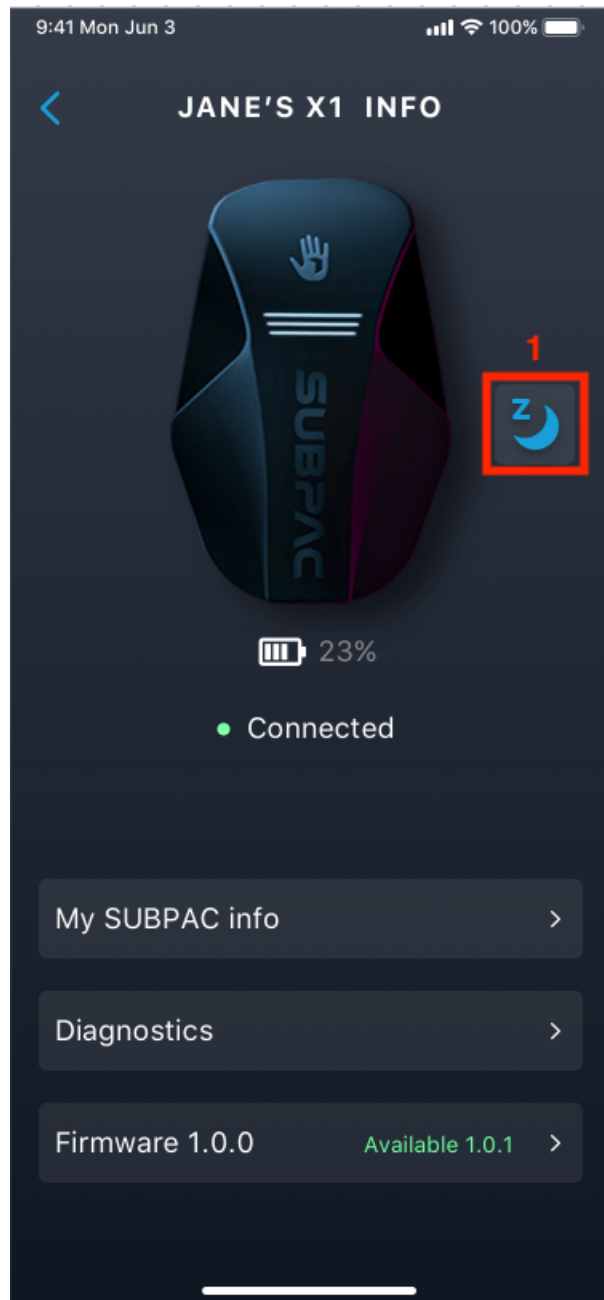
8.3.2 My Devices



(To indicate flow, show both graphics together, the smaller one highlighting the My Devices editing options as shown in this mockup. 1-2-3 in the smaller graphic should be renumbered to 3-4-5. Annotate each area as shown below to describe the actions users can take)

- 1 - Click a device name to see device info.
- 2 - Click to add an unregistered SUBPAC X1
- 3 - Swipe the icon to activate the SUBPAC X1 rename and delete options.
 - 1. - Click to rename the device.
 - 5 - Click to delete the device.

8.3.3 Device Info



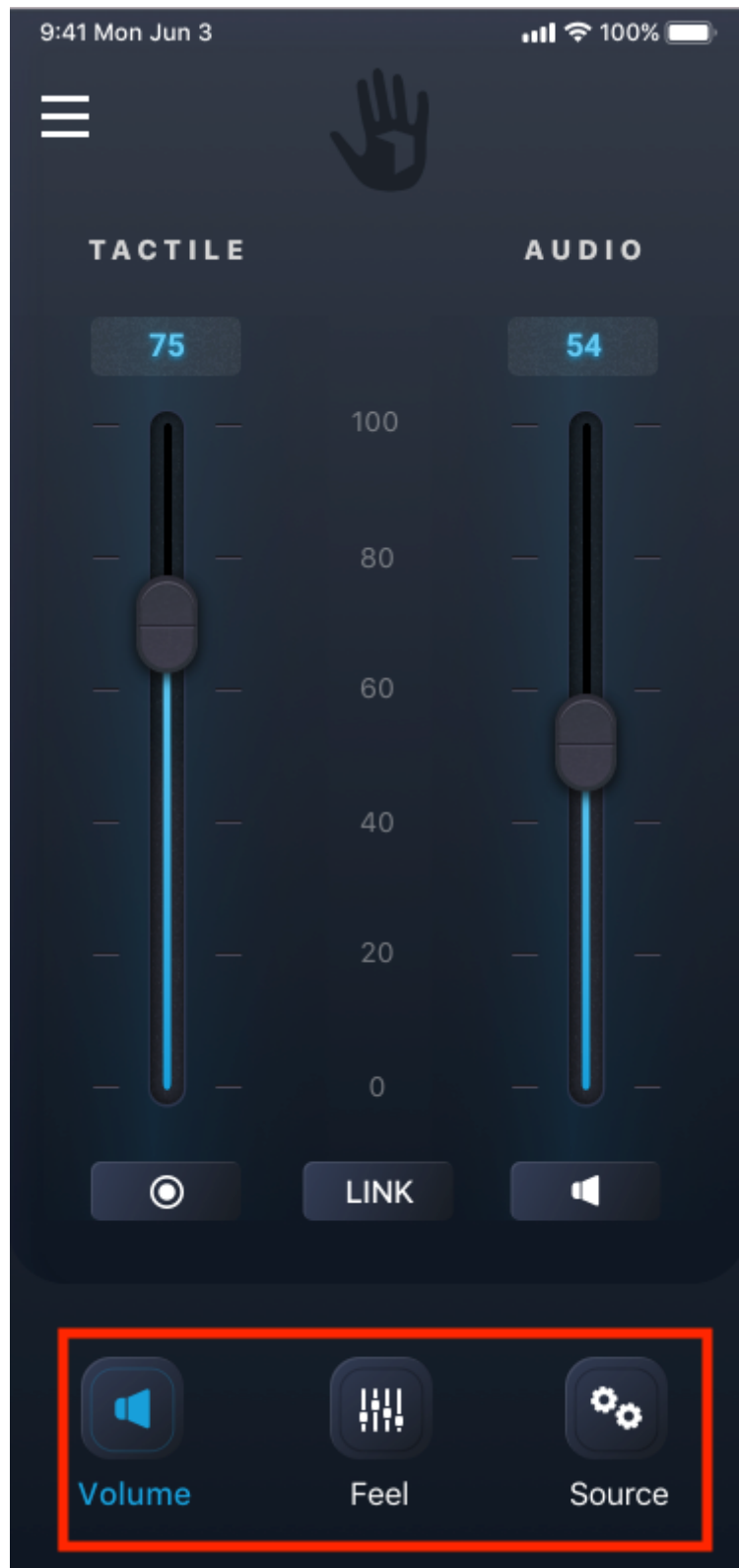
(In addition to 1, annotate each of the following areas of the screenshot:)

- 1 - Click to put your SUBPAC X1 to sleep.
- 2 - Indicates percentage of remaining battery charge
- 3 - Click to access these primary app controls: Volume, Feel, and Source.
- 4 - Click to view device diagnostics
- 5 - If new firmware is available, the version number appears in **green**. Click to update your mobile app. If you are experiencing difficulties with updating your firmware, please contact SUBPAC support.

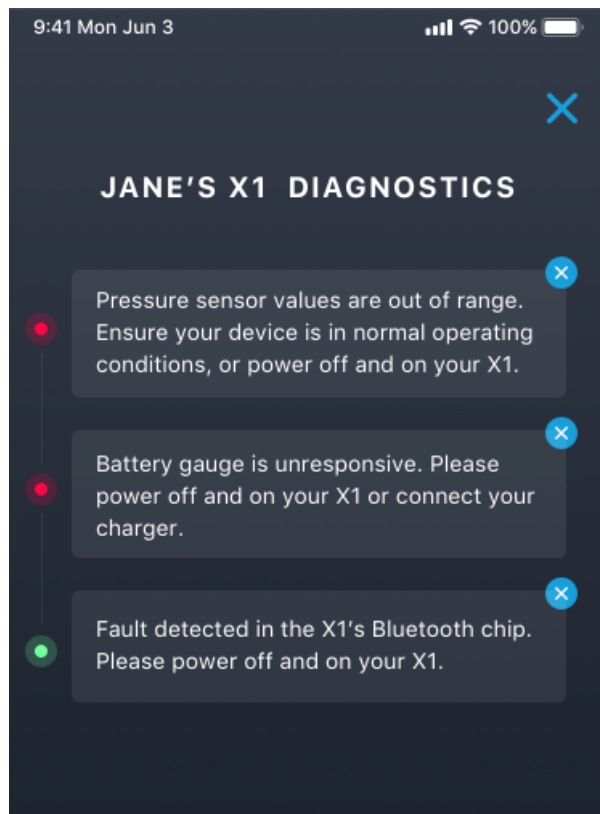
8.3.4 Primary App Controls

With these primary app controls, you can enhance your SUBPAC X1 experience.

For details, see [Use your SUBPAC mobile app controls](#).



8.3.5 Diagnostics



- Pressure sensor values are out of range. Ensure your device is in normal operating conditions, or power off and on your X1.
- Battery gauge is unresponsive. Please power off and on your X1 or connect your charger.
- Fault detected in the X1's Bluetooth chip. Please power off and on your X1.

If you are not able to resolve the issues displayed within the diagnostics panel, please contact SUBPAC support.

9 Fit and Adjust the SUBPAC X1 Modular Strapping System

The SUBPAC X1 strapping system can be used for both seated and wearable applications.

9.1 Seated Setup

9.1.1 Select Your Chair

Find a comfortable chair with a full back and secure your SUBPAC using the modular strapping system. Full chair backs with medium padding combined with optimal SUBPAC placement greatly improve the seated experience.

The chair, SUBPAC, and your body all interact with each other so it is best to experiment until you find the right combination.

Once you find a good chair and secure an optimal placement where all the low frequencies feel equal, don't change it. A good indicator of the right placement is if you feel the lower notes towards the seat and the upper notes towards the shoulders.

9.1.2 Adjust the Straps

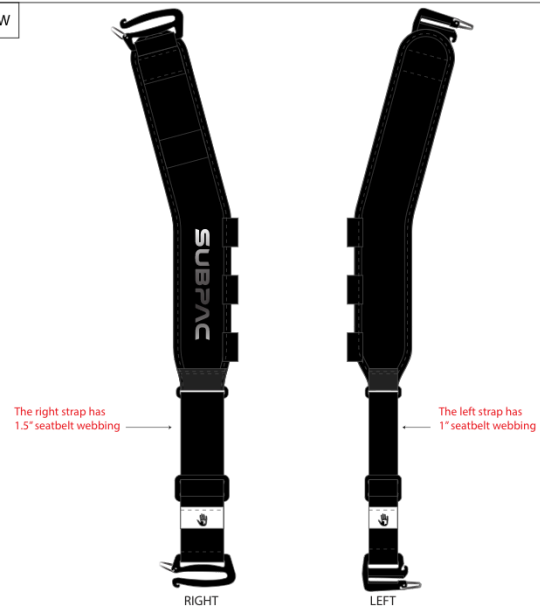
The SUBPAC X1 multi-point strapping system can be used on a variety of different chair sizes and styles. The seated strapping is completely removable, and can detach into two pieces to best suit the design of your chair. The strapping system can be stored in the back pocket of your device for neatness.

Main Seat Strap

Use to the two included SUBPAC straps and connect the hooks to the top strap loops located at the top of the SUBPAC. Place the SUBPAC on your chair. Then connect the bottom ends of the straps to the loops a located on the bottom of the SUBPAC. Then, tighten and secure.

The base of the unit should typically sit a few inches above the seat of your chair.

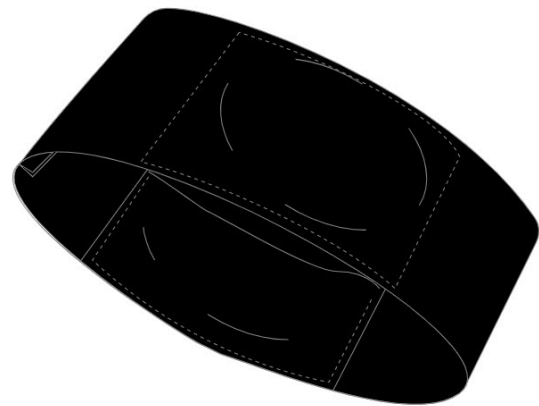
VIEW

**Magnet Strap**

The magnets in this strap snap the opening closed.

It can be slipped over the armrest of a chair or snapped onto other straps in the system. Generally, it is used to hold the Remote Control I/O in place.

Illustration to be inserted here (showing different straps/areas to which the magnet strap can be attached)



Remote Control I/O Placement

The Remote Control I/O can be clipped to the SUBPAC X1, chair or armrest using the magnet strap. After sliding the magnet strap over the chair armrest, clip the Remote Control I/O to the strap.

When not in use or during transportation, clip the Remote Control I/O to the wide elastic loop of the main strap, or on the back pocket.

9.2 Wearable Setup

9.2.1 Adjust the Wearable Strapping

Wearable strapping should be carefully adjusted so you feel all the frequencies, have contact in all working positions and feel comfortable. Stop adjusting when you find a balance between comfort, contact, pressure, and smooth response.

(small strap with magnet on it, remote will stick to it). Attach strap wherever. Same strap used for seat, wrap around armrest, and click remote on to it.

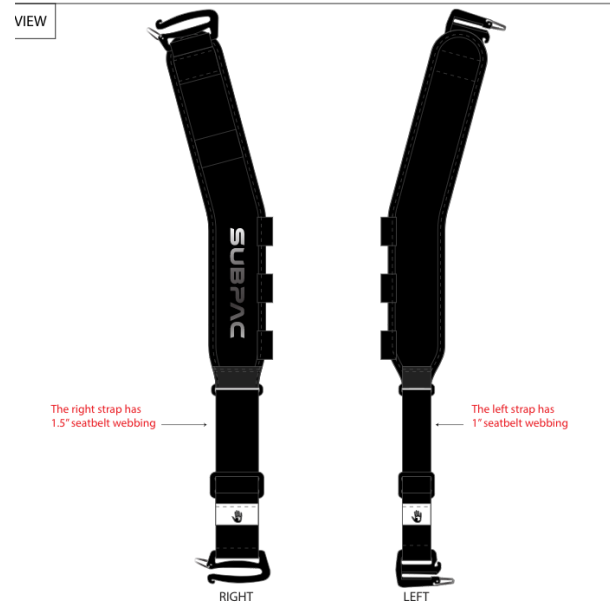
Shoulder Straps

Strap the SUBPAC X1 on as shown in this illustration (similar to illustration in X2 manual?).

You can attach the bottom of the shoulder strap to the looped webbing in the middle or at the base of your SUBPAC X1.

If you use the tensioner strap, you must attach the shoulder strap to the base of your SUBPAC X1.

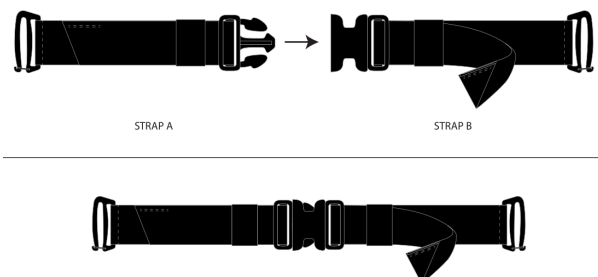
Adjust the shoulder strap so that it fits tightly against your body.



Waist Strap (Optional)

The optional waist strap can be hooked into the webbing loops located in the lower rear wing strap of your SUBPAC X1. Use the release buckles to fasten or loosen the straps.

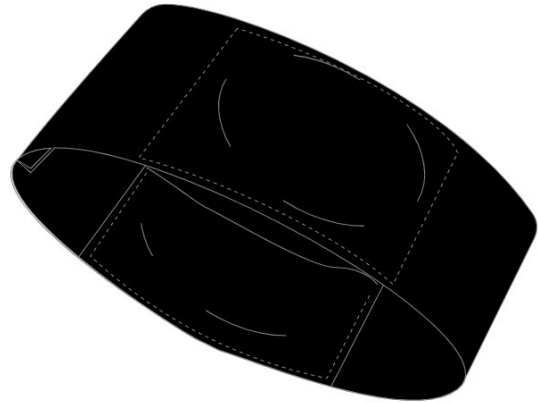
Illustration showing adjustments



Magnet Strap

The magnets in this strap snap the opening closed, and can be snapped onto other straps in the system. Generally, it is used to hold the Remote Control I/O in place.

Illustration showing how to snap in place and hold Remote Control I/O.



PRO TIP: A tighter fit to your SUBPAC X1 makes for a heavier BASS experience, so tighten your straps!

10 Wake Up Your SUBPAC X1

Wake up the SUBPAC X1 or put it to sleep using either the Remote Control I/O or the app.

Caution: Before waking up your SUBPAC X1, lower the volume and remove headphones from your ears. Play the music first to make sure the volume is at a safe level before putting your headphones on.

Note: Before you wake up your SUBPAC X1, ensure that the device is powered on.

10.1 Use Your Remote Control I/O

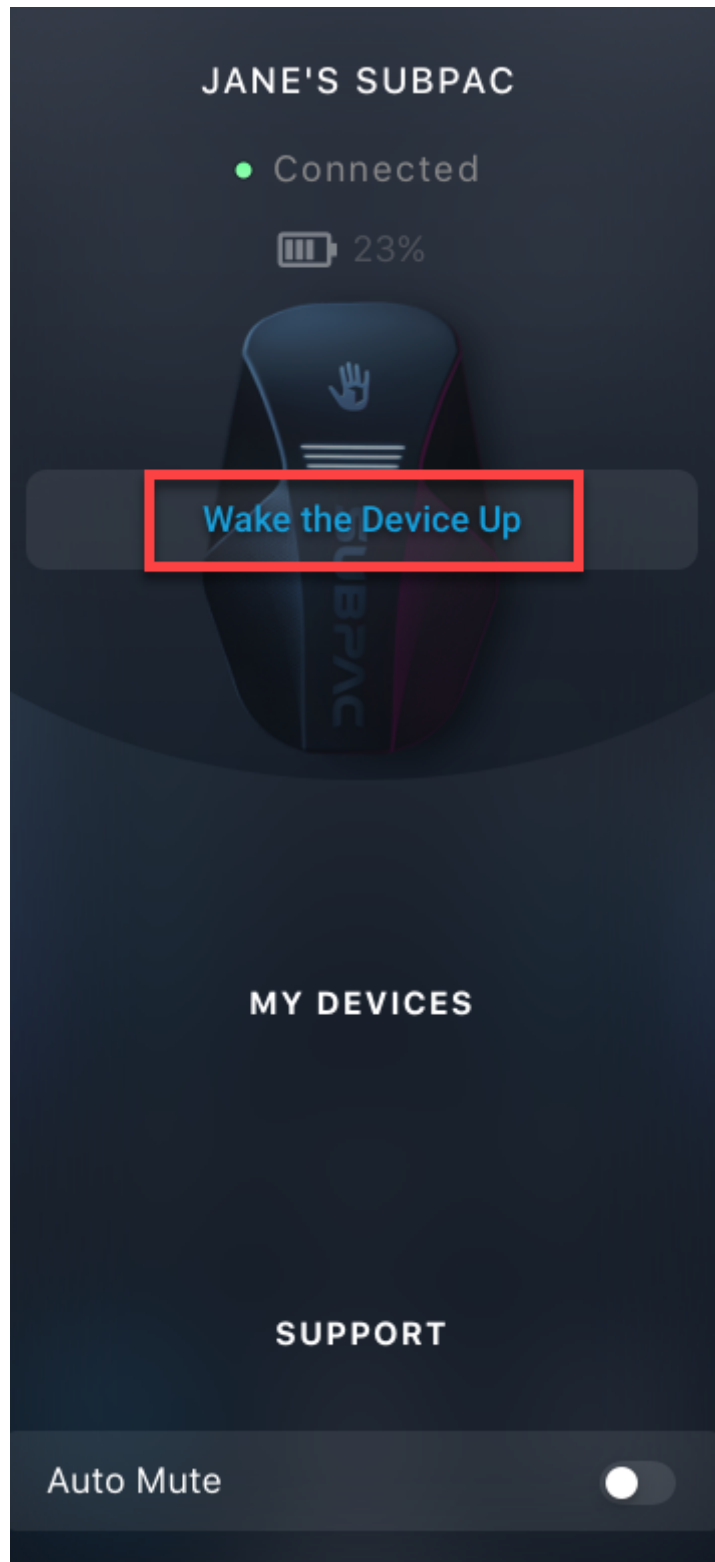
- To wake up the SUBPAC X1, connect the Remote Control I/O to the SUBPAC data port, and click the multi-function button.



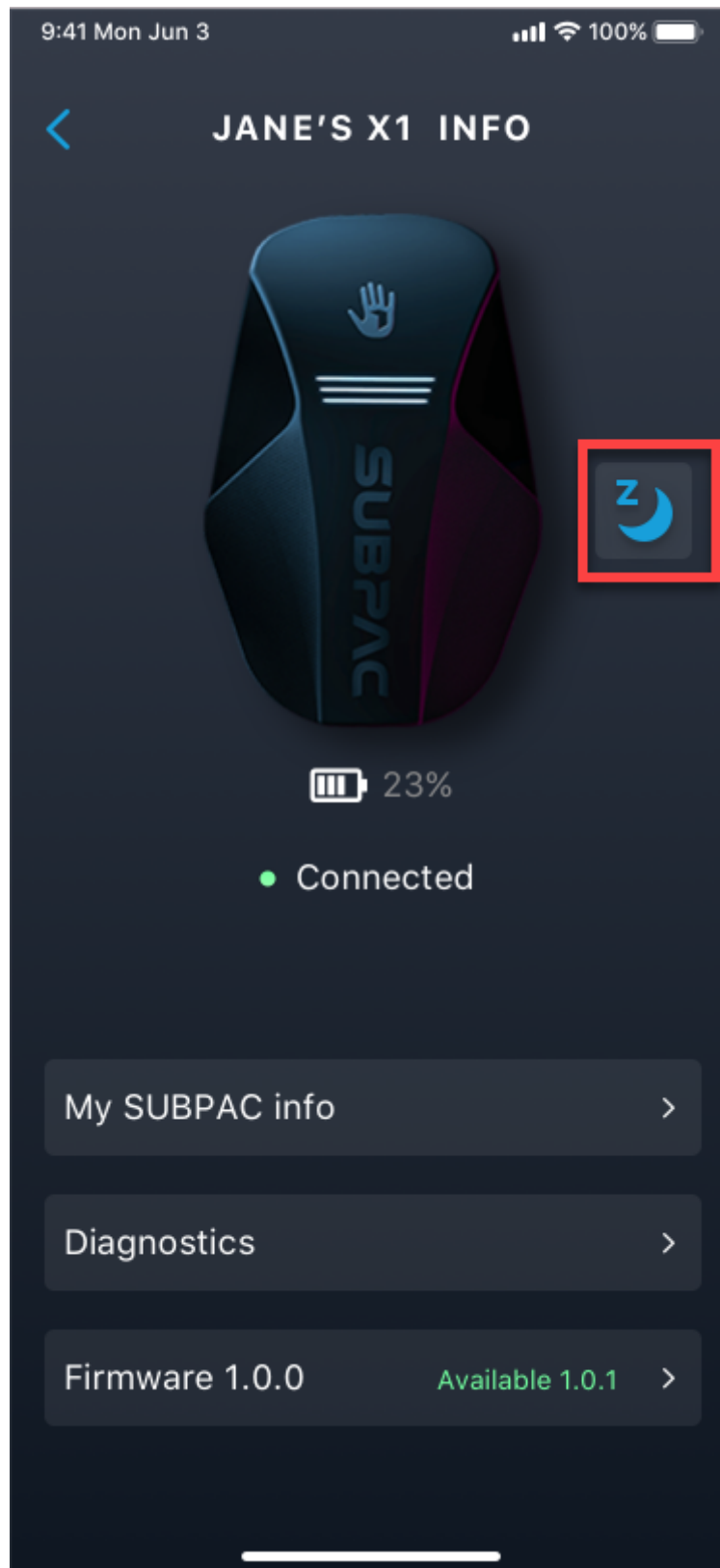
- To put the SUBPAC X1 to sleep, connect the Remote Control I/O to the SUBPAC data port, and click and hold the main button.

10.2 Use Your SUBPAC Mobile App

- To wake up your SUBPAC X1, click the **Wake the Device Up** button on your mobile app main menu screen.



- To put your SUBPAC X1 to sleep, click the *sleep* button on the mobile app device info screen.



- If you also use the SUBPAC C1, you can wake up the SUBPAC X1 from the SUBPAC C1 desktop software. For more details, see the *SUBPAC C1 Online Owner's Manual*.

11 Establish Audio Connections

11.1 Establish Audio Device Inputs

With your SUBPAC X1, you can establish your audio device inputs in several ways.

Audio Device Input Mode	Action
3.5mm input	1. Connect the Remote Control I/O to your SUBPAC X1. 2. Connect the included 3.5m audio cable to the line-in port on the Remote Control I/O. 3. Connect the 3.5m audio cable to your source device output. 4. If using the mobile application, select 'line-input' from the source panel.

Bluetooth audio pairing

1. Connect the Remote Control I/O to your SUBPAC X1.
2. Click and hold the up button on the Remote Control I/O until the LED indicator **blinks blue**, to show that the pairing mode is activated.



1. In your source device's Bluetooth settings, search for **SUBPAC X1**.
2. Follow the manufacturer instructions to pair the source device with the SUBPAC X1.
3. If using the mobile application, select 'bluetooth audio' from within the source panel.

The LED indicator now displays a **solid blue**, showing a successful connection.

USB- C

1. Connect the included USB-C cable to your source device.
2. Connect the USB-C directly to the SUBPAC X1 USB-C data port.

UWB wireless

This mode is only available if you also use the SUBPAC C1. For instructions, see the *SUBPAC C1 Online Owner's Manual*.

11.2 Connect Your Headphones

CAUTION: Remove your headphones before playing music. Establish volume at a moderate level before usage.

11.2.1 Cabled Headphones

Connect your headphones to the 3.5mm headphones output on the Remote Control I/O.



11.2.2 Bluetooth Headphones

Your Bluetooth headphone connection depends on the operating system you use.

Operating System	Action
Android	For devices that support two Bluetooth outputs, connect both headphones and SUBPAC X1 via Bluetooth. Then use the synchronization setting in the SUBPAC app to bring audio and SUBPAC X1 in sync.
iOS	Apple currently does not allow dual Bluetooth output for non-Apple products. It's ideal to use an external dual Bluetooth transmitter and use the synchronization setting in the SUBPAC app to bring audio and SUBPAC X1 in sync.
macOS	Connect both SUBPAC X1 and headphones via Bluetooth. In Audio MIDI setup, create a Multiple Output device and select your headphones and your SUBPAC. If the two are not in sync, select the device that is delayed in the Master Clock option.

PC

For Windows and Linux devices it's ideal to use an external dual Bluetooth transmitter and use the synchronization setting in the SUBPAC app to bring audio and SUBPAC X1 in sync.

12 Control Your SUBPAC X1

12.1 Use Your Mini-Remote

The Remote Control I/O provides basic controls for your SUBPAC X1.



1. Multi-function button:

To select the tactile, audio, or linked mode, click the multi-function button on the Remote Control I/O to toggle between modes.

The LED indicator changes color, depending on the mode.

1. Up/Down buttons:

- **To adjust audio, tactile, or linked levels**, click the up and down buttons on the Remote Control I/O.
- **To mute the selected audio, tactile, or linked mode**, click-and-hold the down button on the remote. To deactivate the muting, click the down button.

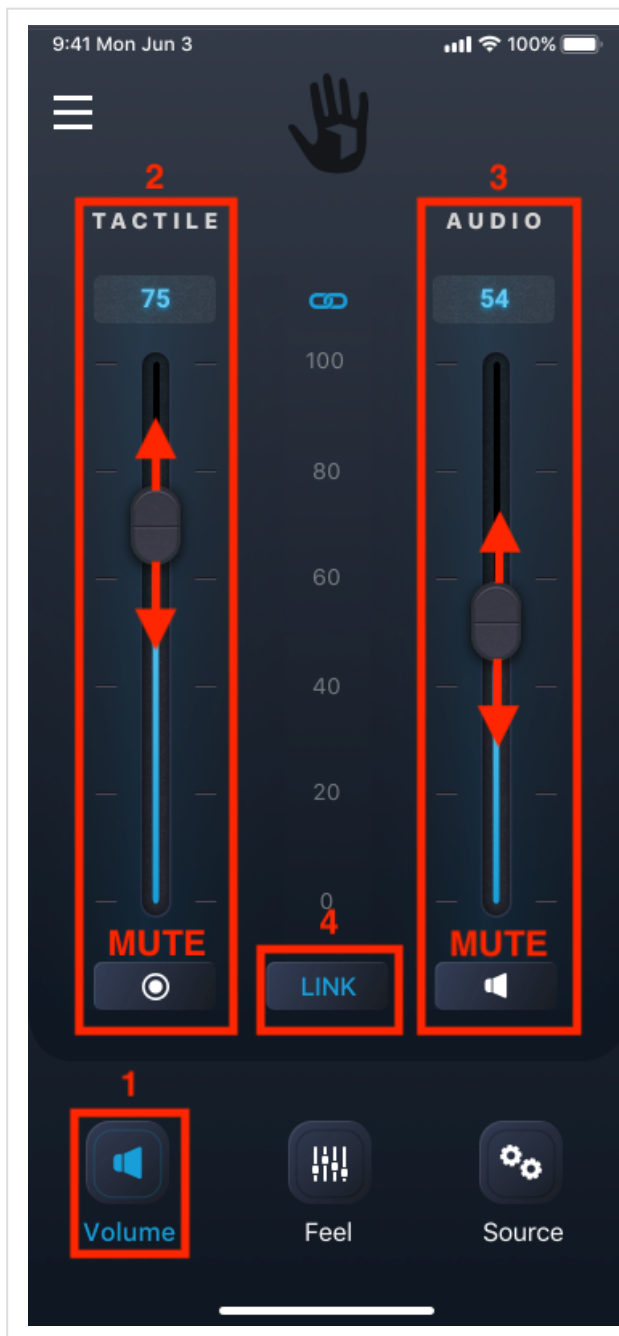
12.2 Use Your SUBPAC Mobile App

After a successful connection between your SUBPAC X1 and mobile app, you can use mobile app controls to fully control your SUBPAC X1.

There are three primary control panels - Volume, Feel, and Source.

To access these controls on your mobile app, access the My SUBPAC Info screen from the [main device info screen](#).

12.2.1 Volume Controls



1. To adjust levels, click the **Volume** panel and use the faders to adjust the levels.
1. To adjust tactile volume only, use the **Tactile** fader. To quickly mute tactile only, click the mute button beneath the fader.
1. To adjust audio volume only, use the **Audio** fader. To quickly mute audio only, click the mute button beneath the fader.
1. You are able to connect tactile with audio adjustments in link mode. **Link** shows as blue when activated, grey when off. You can use either **Tactile** or **Audio** faders to adjust levels, and their **Mute** buttons to mute tactile or audio effects.

12.2.2 Feel (Descriptions of Feel Eqs?)

With the Feel control, you adjust the SUBPAC X1 EQ response. You can set your own preferred low-pass and high-pass filter points and/or choose from our selection of custom SUBPAC EQ presets.



1. To adjust Feel controls, click the **Feel** panel.

1. To set your high-pass and low-pass EQ filter points, slide each filter along the horizontal plane. Frequency Hz displays underneath the slider to help you select your preferred filter response.

1. To engage a custom SUBPAC EQ preset option, click the preset, for example, **Sub Focused**. Custom EQ presets change the filter points specific to the preset type you selected.

12.2.3 Source

Depending on your hardware setup, the device will automatically detect which input source to use. However you can force an input of your choice using the app.



1. To adjust Source controls, click **Source**.

1. Click inside the drop-down list, and select your input type: **Line-in**, **Bluetooth Audio**, **UWB**, or **USB-C**

Note: The **UWB** option is only available if you also use the SUBPAC C1.

1. Set the Tactile Sync:
 - a. Drag the slider to the right of 0ms to add delay to your audio signal.
 - b. Drag the slider to the left of 0ms to add delay to your tactile signal.
 - c. Use the millisecond meter to see your delay.

Time alignment can be useful for synchronizing the signals between your SUBPAC X1 and a pair of Bluetooth headphones or multi-output devices. It can also compensate for the acoustic delay between your studio monitors and your listening position (ears). A standard rule of thumb in audio is one millisecond of delay per one foot of distance.

13 LED Indicator

13.1 SUBPAC X1 On/Off LED Indicator

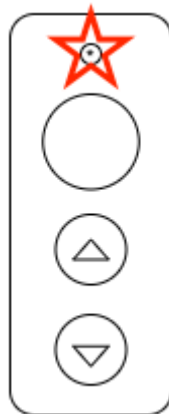
When the SUBPAC X1 is powered on the on/off LED will display a solid white. If this LED does not light up, you may need to charge the SUBPAC X1. If problem persists please reach out to SUBPAC support.

(Insert an illustration or image showing where this LED is on the device)

You can view battery level on either [on the SUBPAC mobile app](#) or, if you are using the SUBPAC C1, on the C1 desktop app.

13.2 Mini-Remote LED Indicators

The Remote Control I/O LED indicators can be seen directly above the SUBPAC multi-function button at the top of the remote.



These indicators show the status of most SUBPAC X1-related functions.

Function	LED Indicator	Status	Action Required
Battery Charge	Slow breath orange	Charging	None
	Solid green	Significantly Charged	None. Device ready to use.
	Blinking red	Critically low charge	Charge your SUBPAC X1
Clipping Warnings	Flashing red	Clip output warning	Turn down your tactile levels

	Flashing yellow	Clip input warning	Turn down your input level
Input	Solid teal	Line input	None
	Blinking blue	Bluetooth pairing activated	None
	Solid blue	Bluetooth connected	None
	Blinking purple	UWB pairing activated	None Note: Available only with SUBPAC C1
	Solid purple	UWB connected	None Note: Available only with SUBPAC C1
Level Adjustments	Blink Green	Audio Level adjustment	Set audio level
	blink Teal/blue/purple	Tactile level adjustment	Set tactile level Note: Indicator color depends on type of audio device input.
	Slow cycle RGB	Linked/locked level ideal	None
	Solid indigo	Linked/locked level adjustment required	Set linked/locked level adjustment
Firmware Updates	Slow breath teal	Update in progress	None
	Solid green	Update successful	None
	Red (solid)	Update failed	Attempt the update again or refer to SUBPAC customer support .

14 Tips for Optimal Use

Before making any mixing decisions when using a new system, it's best to reference material you know and trust. This of course also applies to your SUBPAC.

To calibrate, start by listening to sub-heavy reference material and slowly increase the intensity to a comfortable level. We advise keeping your tactile levels around the halfway point, and certainly before hearing any resonances in the room.

As your ears/body/ mind adjusts to your new system, frequently test your track against your reference track during the mixing/mastering process. Adjust the FEELING (sub-bass) accordingly. If your bass feels as good as your reference on a SUBPAC, it will translate on a big system.

14.1 Optimal Levels

Optimal levels often come down to personal preference. We recommend low to moderate levels while using the SUBPAC in the studio.

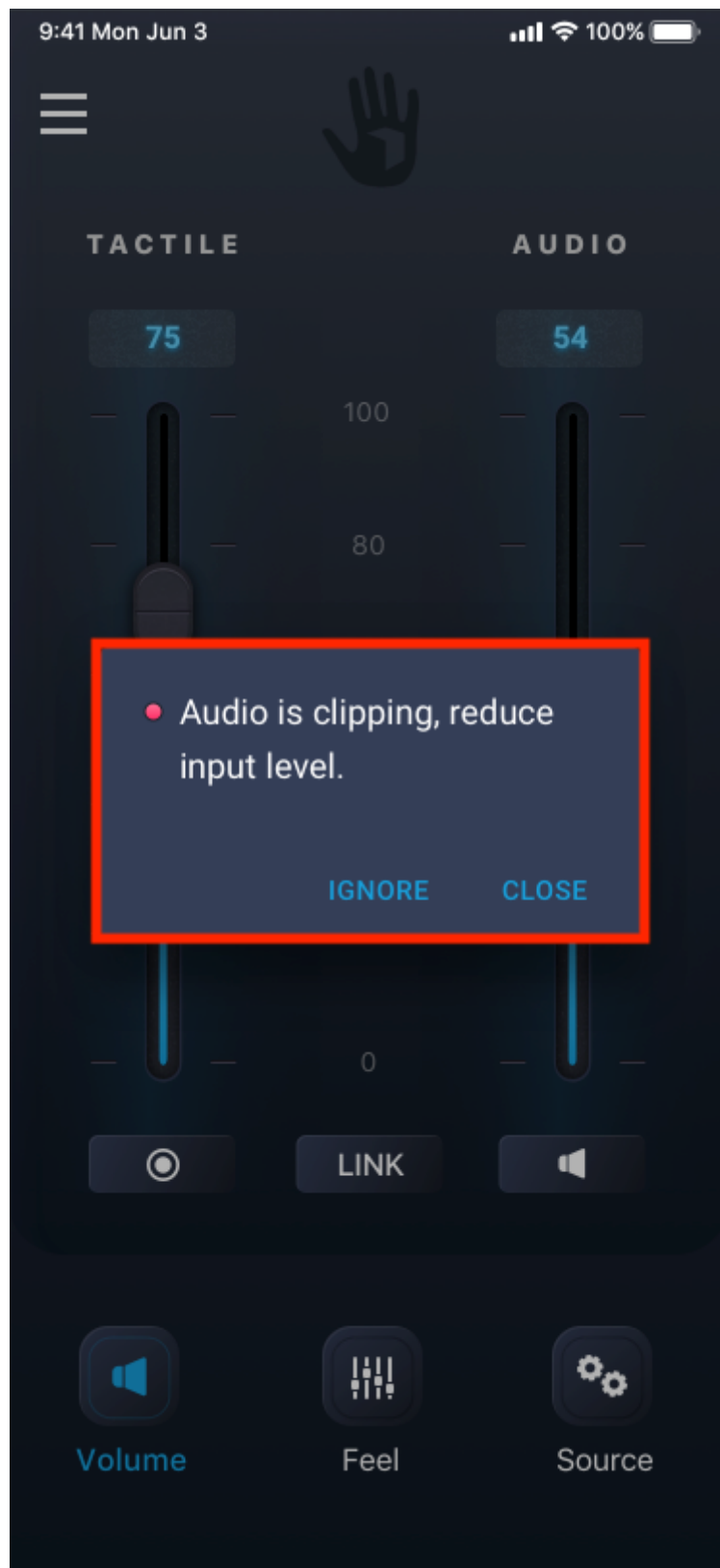
You should never clip your audio or tactile levels. Your SUBPAC mobile app and Remote Control I/O warns you when you start clipping.

14.1.1 CAUTION: Remove your headphones before playing music. Establish volume at a moderate level before usage.

14.1.2 Mobile App Warning

When you see the mobile app clipping warning, [reduce your audio and tactile levels](#)³.

³ <https://docs.google.com/document/d/1T3tKN0TMCYTSXKU0rzGxBQsbseAZVnZM9gtMrTDj8dw/edit#heading=h.8vi5yzf8xkj5>



14.1.3 Mini-Remote Warning

When you start clipping, the Remote Control I/O LED indicator shows the following warnings:

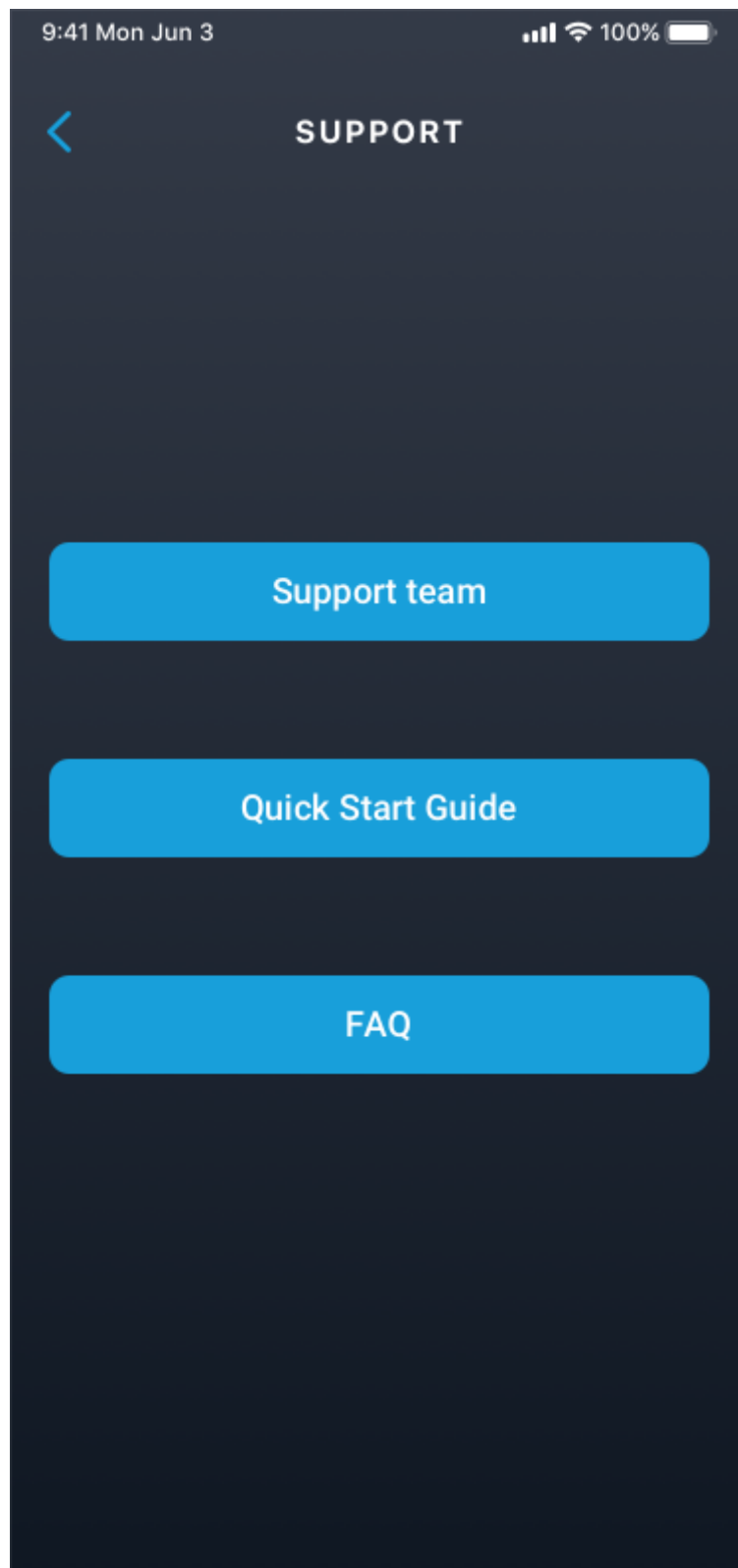
- **Solid Red** - Clip Output
- **Flash Yellow** - Clip Input

Press the Remote Control I/O down-button to lower intensity until the warning indicators disappear.



15 Customer Support

Use your SUBPAC mobile app to go to the **Support** screen, then select a support option. You can contact the support team directly, or view the SUBPAC Quick Start Guide or FAQs.



If you aren't using the mobile app, go to <https://subpac.com/> to get customer support information.

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17 Important Safeguards & Cautions

Before using the SUBPAC C1, read these operating instructions, paying special attention to safety warnings here and on the unit.

To reduce the risk of fire, shock, or system failure, do not expose this product to water, rain, or any moisture or spillage.

Do not expose the SUBPAC to direct sunlight or extreme temperatures, and avoid heat sources or other equipment producing excessive heat.

To avoid overheating and damage to the unit, ensure adequate ventilation around the box to avoid overheating and damage to the unit.

Connect your SUBPAC C1 to the type of power source described in the operating instructions or as marked on the unit.

Route your AC power supply cords neatly. They should be placed so that no one can walk over them and other items do not pinch or crush them.

Do not touch the plug or cord with wet hands, and handle the body of the plug not the prongs when connecting or disconnecting a plug.

To clean the surface of your unit, follow these steps:

1. Turn the power off and unplug the unit.
2. Gently wipe with a clean lint-free cloth.
3. Do not use aerosol sprays, solvents, or abrasives.

18 Welcome to SUBPAC

Congratulations on your purchase of the SUBPAC C1!

The SUBPAC C1 is the heart of your tactile monitoring system. It is a studio-grade analog and digital control module that adds wireless connectivity to your SUBPAC X1 without compromising audio and tactile fidelity. Its powerful hardware and software controls have been designed to meet the most rigorous needs of producers, engineers, artists, and demanding bass heads.

For your safety, follow all important safeguards, warnings, and instructions in this manual.

For more information, visit www.subpSUBPAC - The New Way to Experience Sound: Feel it.™ac.com⁴. Please submit a support ticket to our SUBPAC Bass Specialists if you need further assistance!

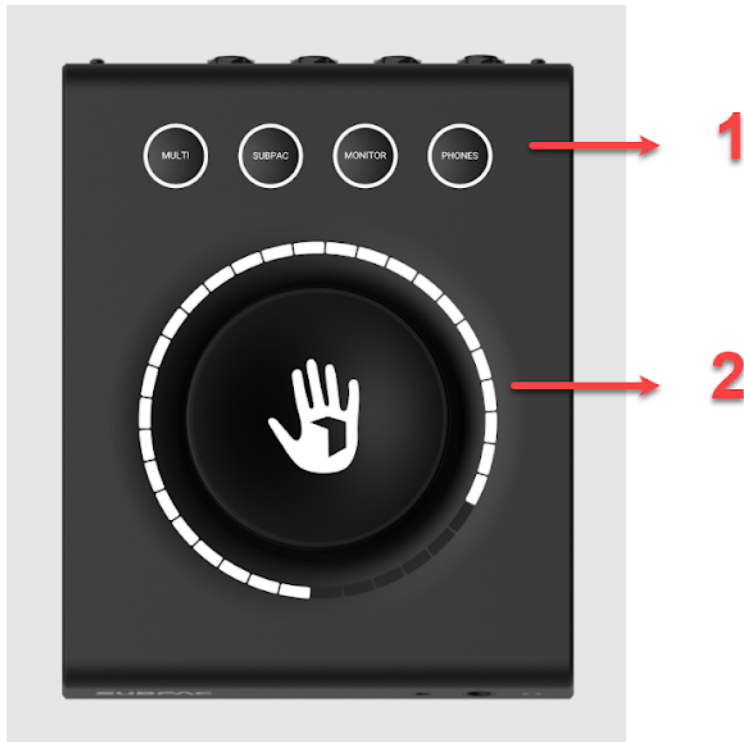
ENJOY THE BASS!

⁴ <http://www.subpac.com/>

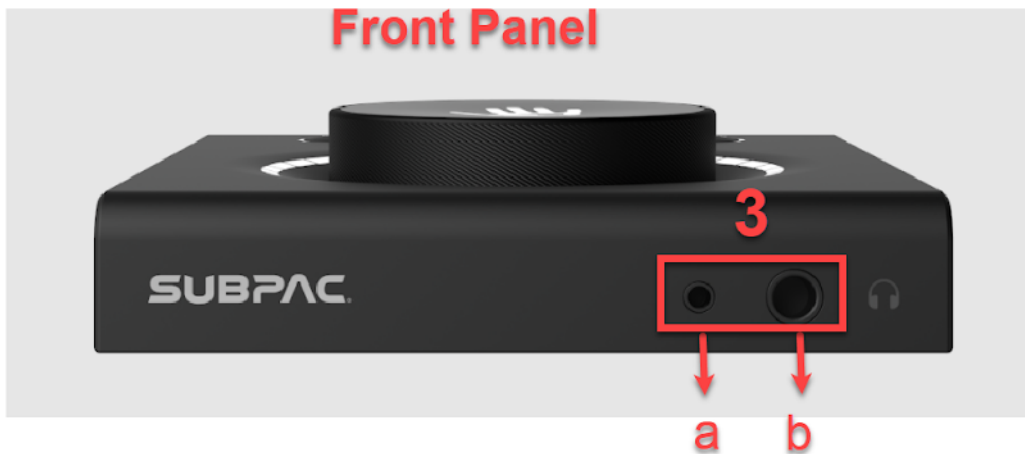
19 What's in the Box?

19.1 SUBPAC C1 Pro-Wireless Control Module

Top Panel



Front Panel



Back Panel



19.1.1 Top Panel

1. Function Buttons
2. Clickable Rotary knob

19.1.2 Front Panel

1. Headphones
 - a. 3.5mm TRS headphone Output
 - b. ¼” TRS headphone Output

19.1.3 Rear Panel

1. Two ¼” monitor line outputs
2. Two ¼” audio line-inputs
 - TBD : One 3.5 mm direct SUBPAC output?
1. USB-C Bus Powered port cable (sends data and power)

19.2 USB-C Cables

19.3 USB C-45w Power Adapter

(include an image of the power adapter)

20 Before You Begin

Use the SUBPAC C1 with the SUBPAC X1 device to enhance your audio/tactile experience.

Ensure that your SUBPAC X1 has been charged and is ready to use before configuring your SUBPAC C1 connection.

For more information about SUBPAC X1, see the *SUBPAC X1 User Manual* [provide a link to the online manual in the SUBPAC website].

21 Power On Your C1 Control Module

Your C1 control module is the heart of your C1 tactile monitoring system. After you power the control module on, ensure that the control module remains connected to your desktop.

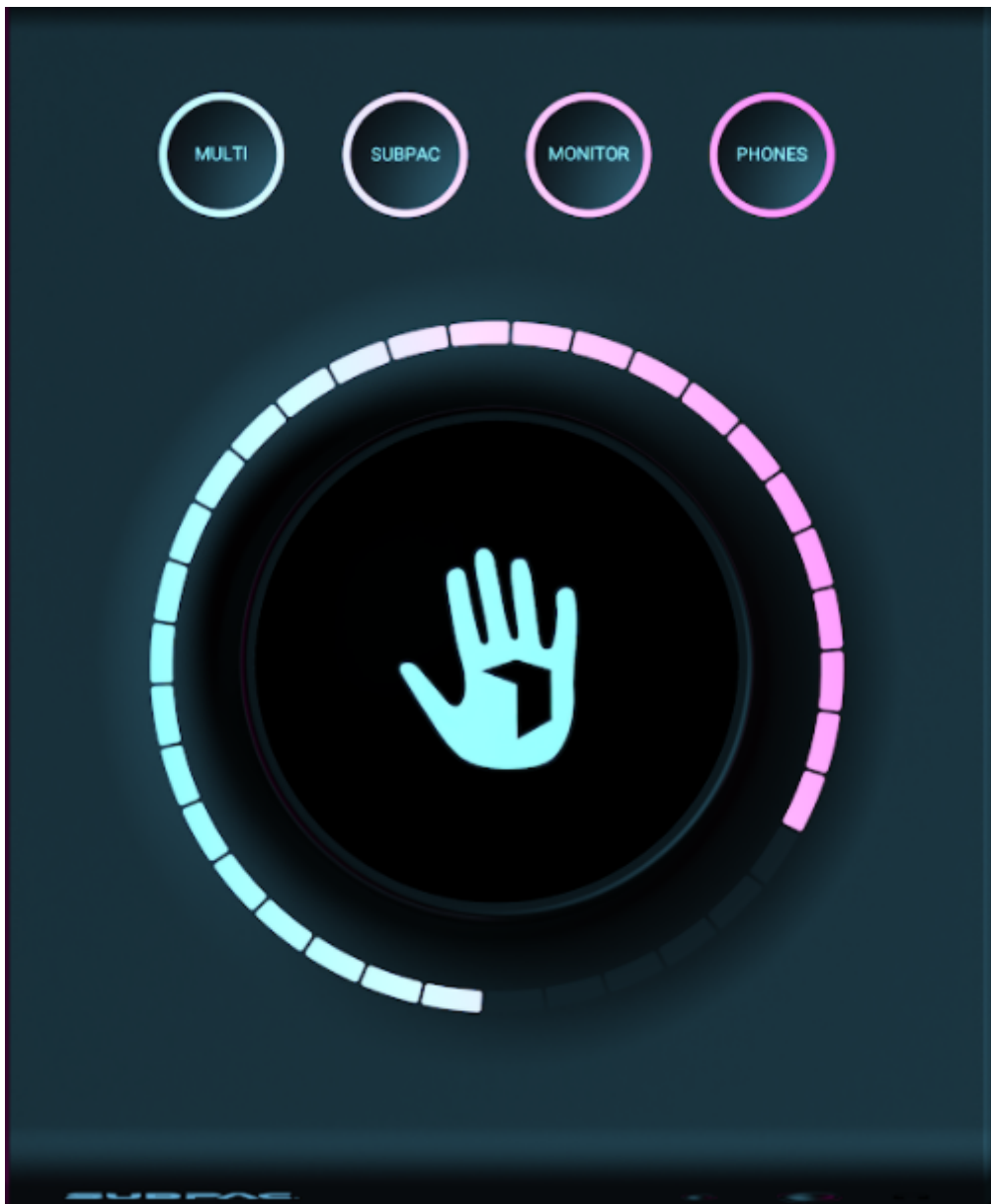
Caution: If your volume speakers are connected and your headphones are on, lower the volume and remove your headphones before powering your C1 control module on.

1. Insert the included USB-C cable into the **USB-C Bus Powered** port in the rear panel of the C1 control module:



1. To power on the control module, connect the other end of the USB-C cable to one of the following:
 - USB port on your computer.
 - USB C-45w Power Adapter. Plug the adapter into a power outlet.

All buttons on the C1 control modules light up with a range of colour (RGB spread cycle) as the SUBPAC C1 control module gets fully powered on:



22 Configure the SUBPAC C1 Software

The SUBPAC C1 software allows you to add wireless connectivity to your SUBPAC X1 and use the full range of all SUBPAC C1 features (filters, delay, EQ).

Install and configure the software on your desktop, then pair the system with your SUBPAC X1 device. Once connected, you can wake up your SUBPAC X1 from your desktop.

22.1 System Requirements

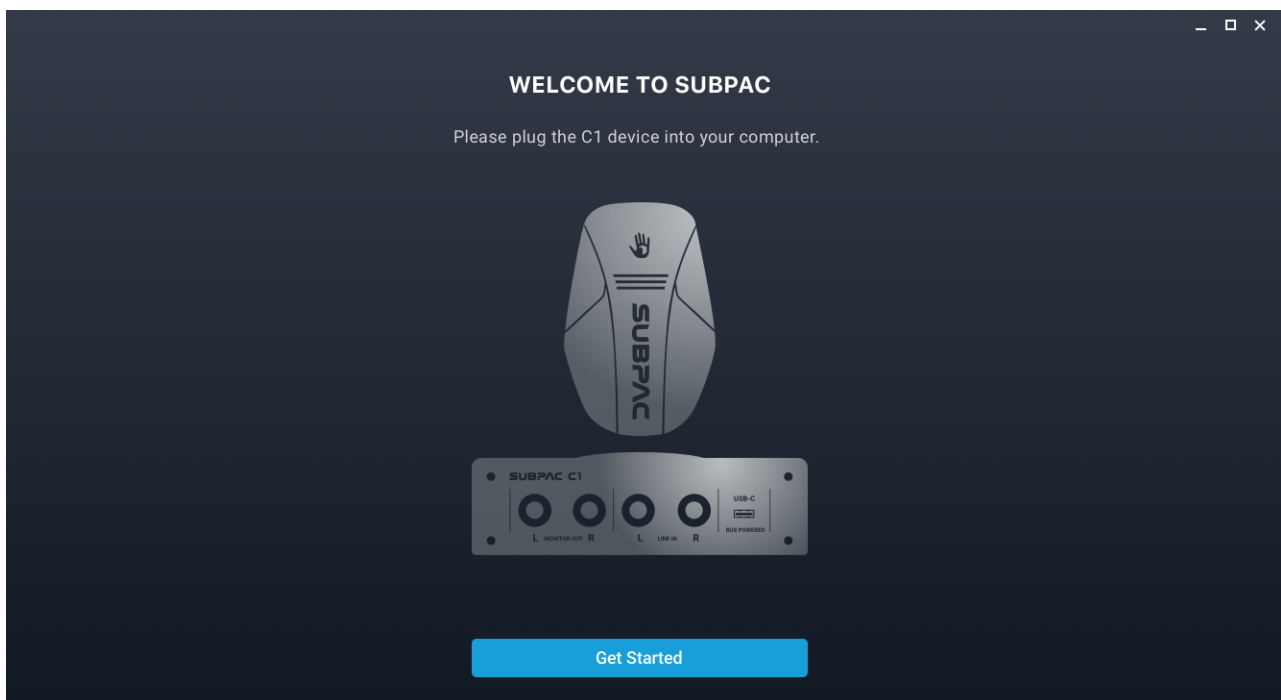
TBD

22.2 Download and Install the SUBPAC C1 Software

1. Download the software from [TBD - need a URL] to your computer.
2. Run the software installation and follow installation prompts.

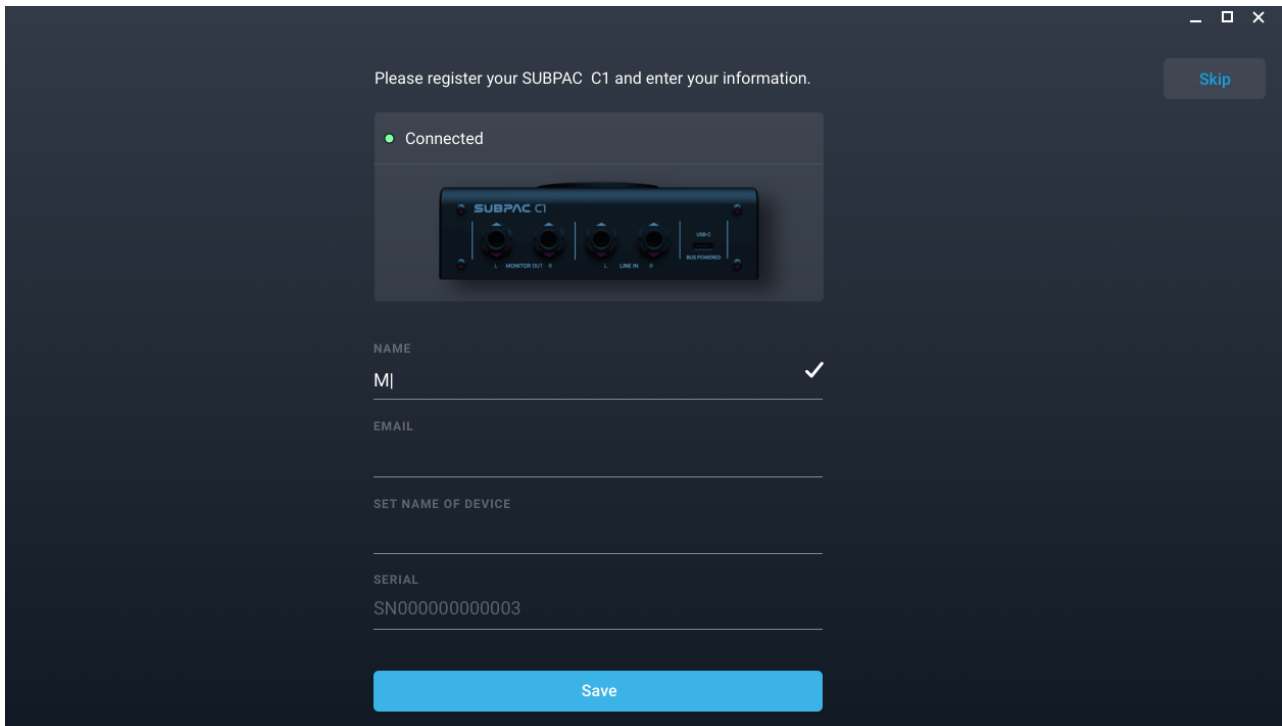
22.3 Register Your C1 Control Module

1. Access the SUBPAC C1 software.



1. Insert the USB-C cable in the USB-C port in the rear panel of the control module and connect the other end to the USB port in your desktop.
2. Click **Get Started**.

The registration screen opens, confirming the connection, and prompting you to complete registration for the device. The device serial number appears in the **Serial** field by default.



Please register your SUBPAC C1 and enter your information. Skip

Connected



NAME
M| ✓

EMAIL

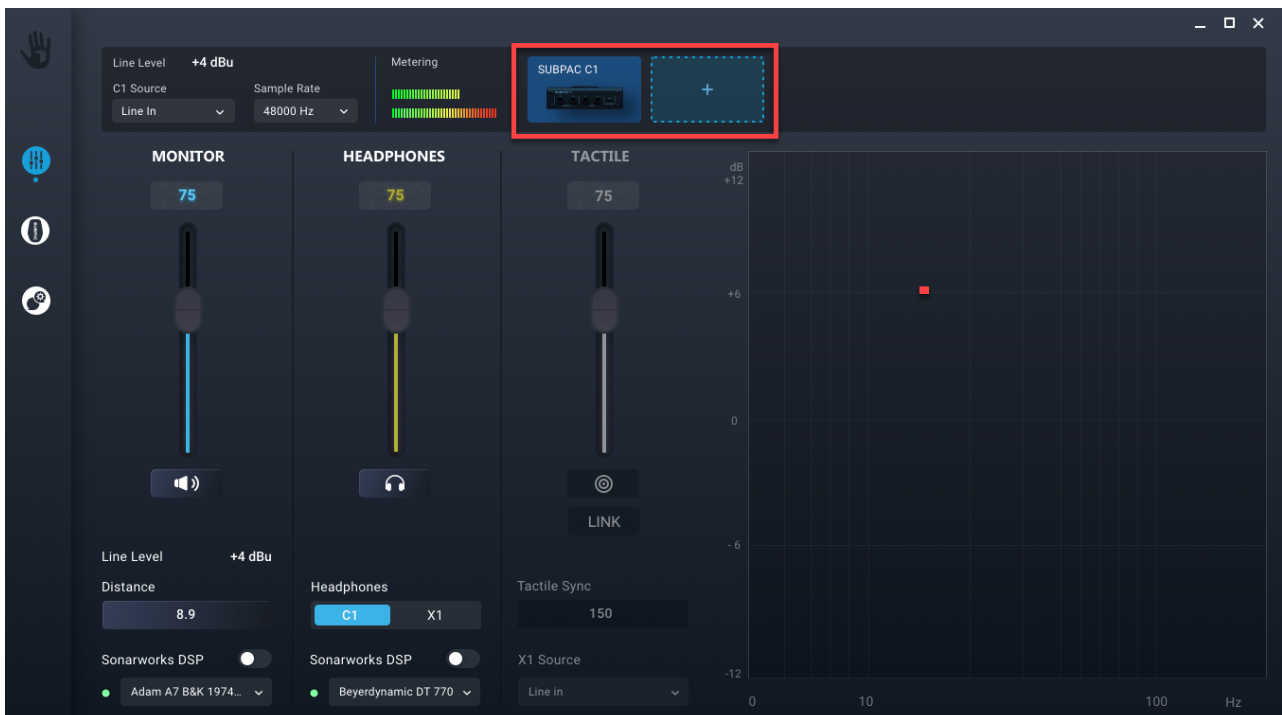
SET NAME OF DEVICE

SERIAL
SN0000000000003

Save

1. Enter your name, email, and device name.
2. Click **Save**.

The next screen displays your system information, including connected devices such as the control module and any SUBPAC X1 devices paired with the C1 system.



Line Level: +4 dBu
C1 Source: Line In
Sample Rate: 48000 Hz
Metering: 

SUBPAC C1 +

MONITOR 75

Line Level: +4 dBu
Distance: 8.9
Sonarworks DSP:  Adam A7 B&K 1974...

HEADPHONES 75

Headphones: C1 X1
Sonarworks DSP:  Beyerdynamic DT 770

TACTILE 75

Tactile Sync: 150
X1 Source: Line In
LINK

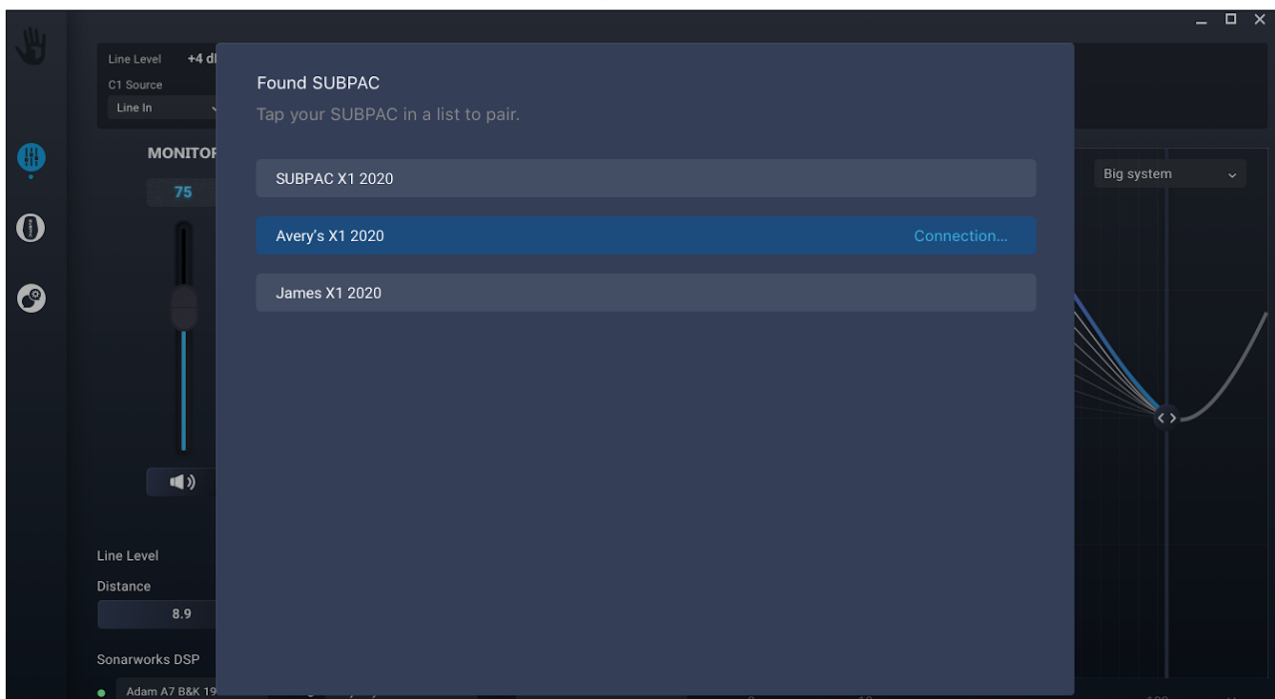
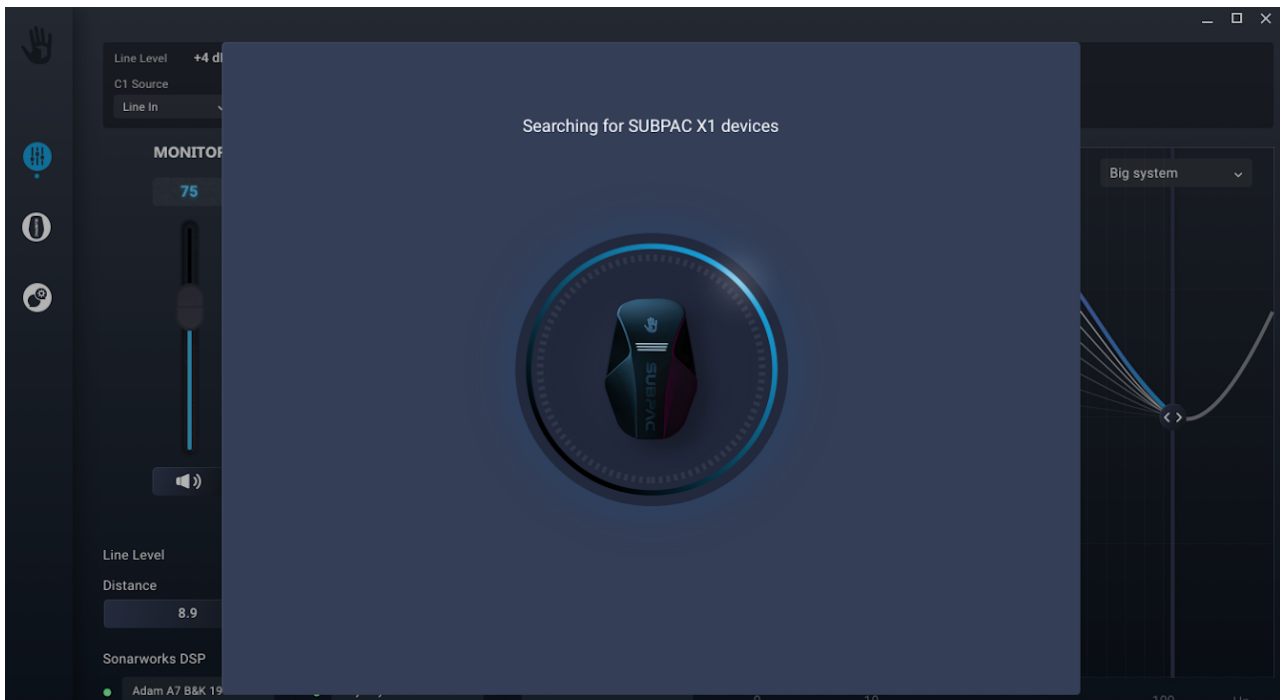
dB: +12, +6, 0, -6, -12
Hz: 0, 10, 100

(We should have a screenshot showing the **X1 Source** as **UWB**, not **Line in**).

22.4 Pair the SUBPAC C1 System with your SUBPAC X1 Devices

1. On your main SUBPAC C1 screen, click the plus (+) sign at the top of the screen beside **SUBPAC C1**.

The system searches for an X1 device until the list of devices appears.

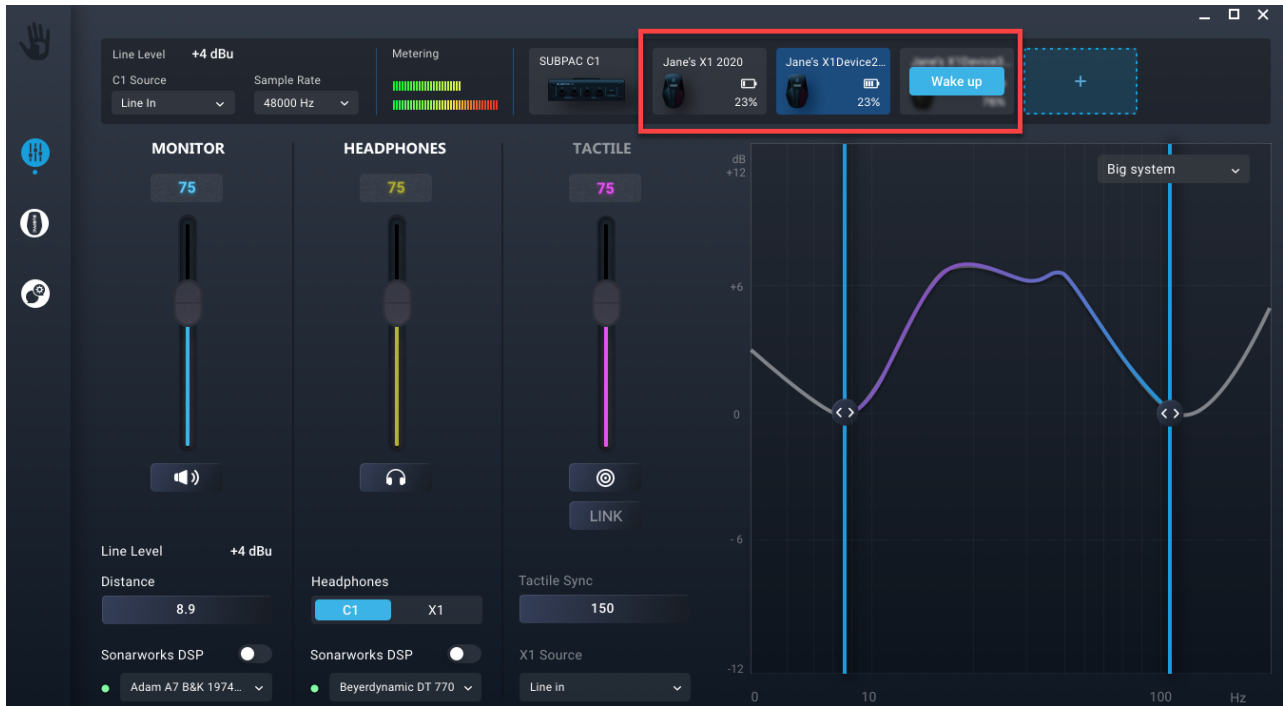


(Perhaps it would be better if the 2nd screenshot shows, among others, **Jane's X1 Device** as an option, since that's what shows up on the other screenshots).

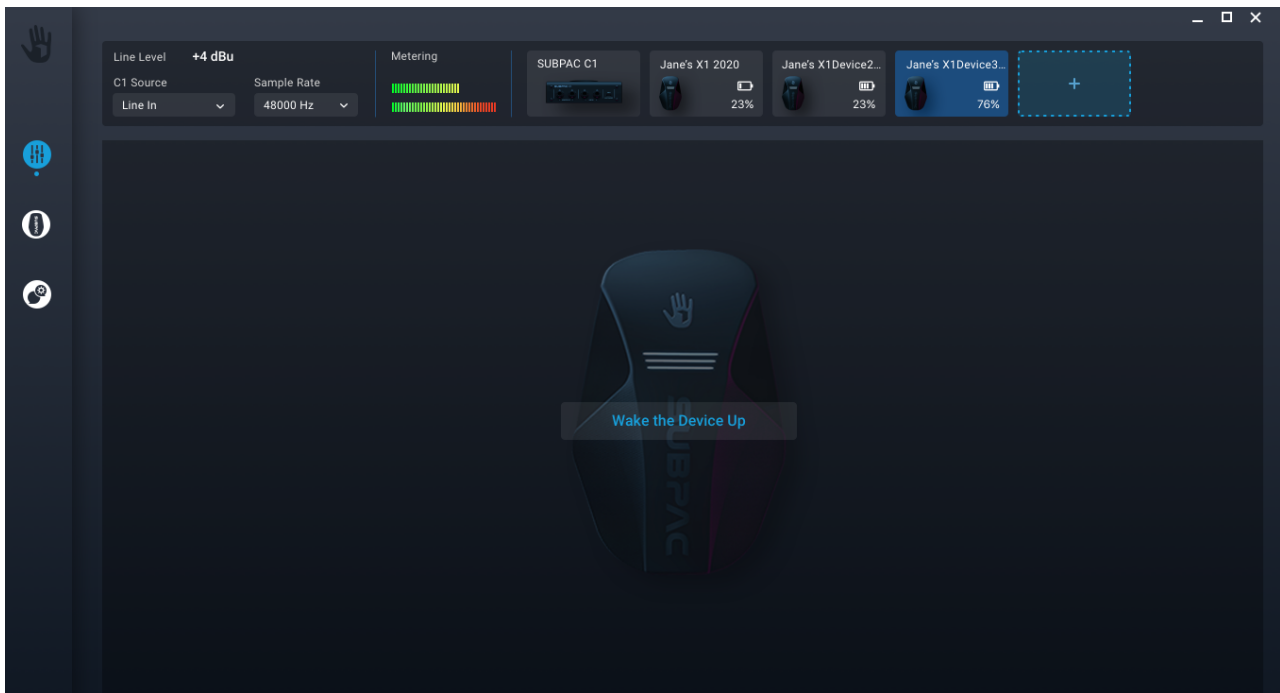
1. On the list, click the SUBPAC X1 you want to add to the C1 system.

Note: You can add up to five devices.

On the main screen, you now see the SUBPAC X1 device(s) you added.



1. To wake up a SUBPAC X1 paired with the C1 system, click the **Wake up** prompt associated with that SUBPAC X1 and, on the next screen, click **Wake the Device Up**.

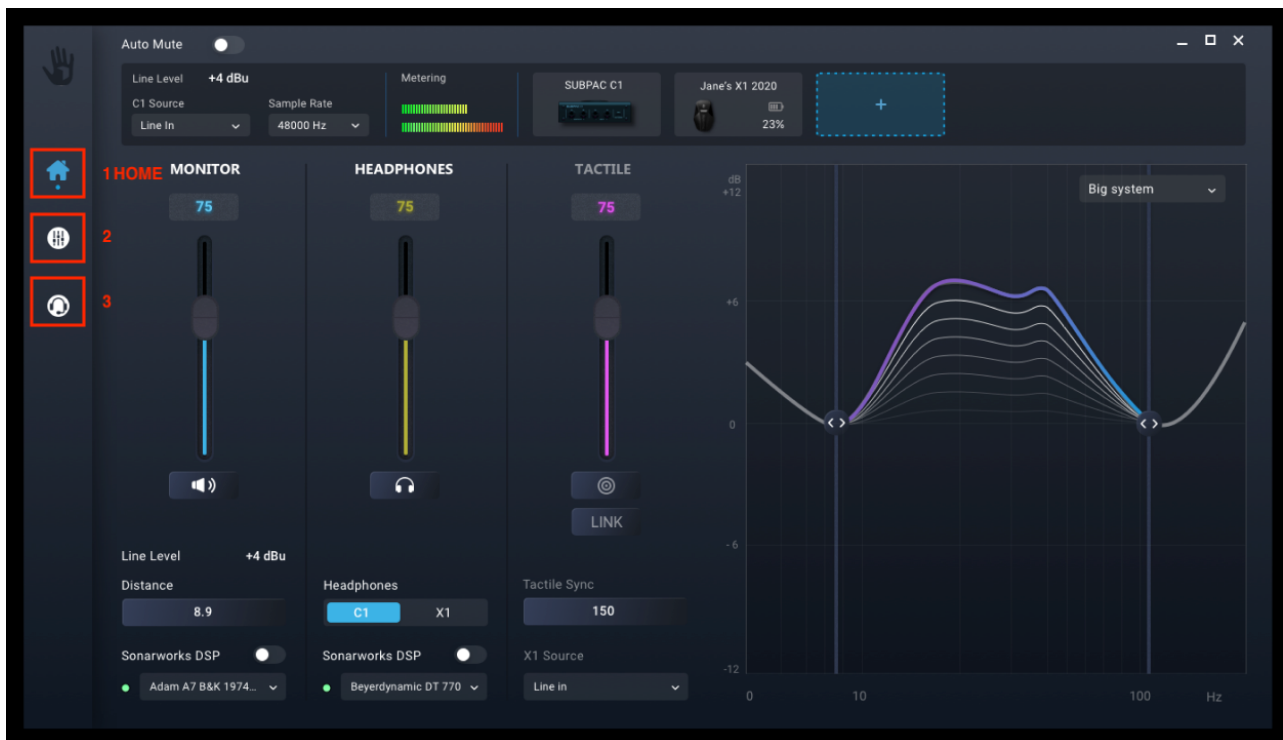


22.5 SUBPAC C1 Desktop Screens

22.5.1 Main Screen

(for all the main screen screenshots that follow, would be great to have them be one where the C1 source selected is UWB, which is the main use case for the C1 system)

22.5.1.1 Main Menu Icons



(Please remove "Home" text, and just leave numbers)

1. Home - Click to access the home screen, which includes main feature controls and indicators. The Home item is selected by default.
2. Connected Devices - Click to add, register, and connect your SUBPAC X1 devices, as well as to update firmware.
3. SUBPAC Support options - Click to submit tickets, view FAQs and Help Center articles, as well as initiate chats with the SUBPAC support team.

22.5.1.2 Main Features

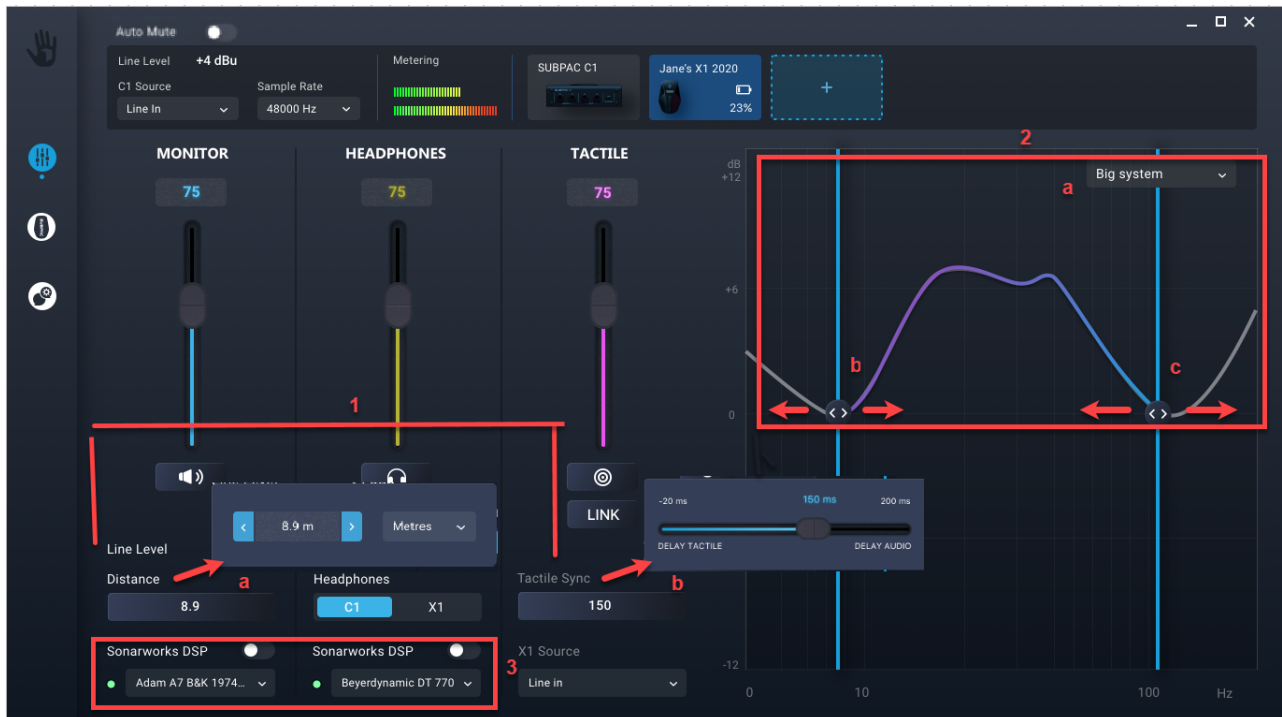


[Numbering should change a bit, similar to the above. Added Metering and Automute, for consistency).

1. Monitor, headphone, tactile buttons - click to activate the Monitor, Headphone or Tactile mode for your device.
2. Monitor, headphone and tactile mode adjustment controls - Drag faders up or down to adjust intensity.
3. Mute button - Click to mute for monitor, headphone and/or tactile modes
4. Linked mode - Click to allow you to adjust both audio and tactile volumes simultaneously
5. Headphone out options - Click to select either X1 or C1 headphone outputs.
6. Input source - Click to select a UWB or Line-In connection to your SUBPAC X1.
7. Meter levels - View often to ensure that you are not clipping. (Clipping = red zone)
8. Auto mute toggle - Toggle **Auto Mute** on to control whether pressure sensors mute your SUBPAC X1 when you are not resting against it. By default, **Auto Mute** is off.

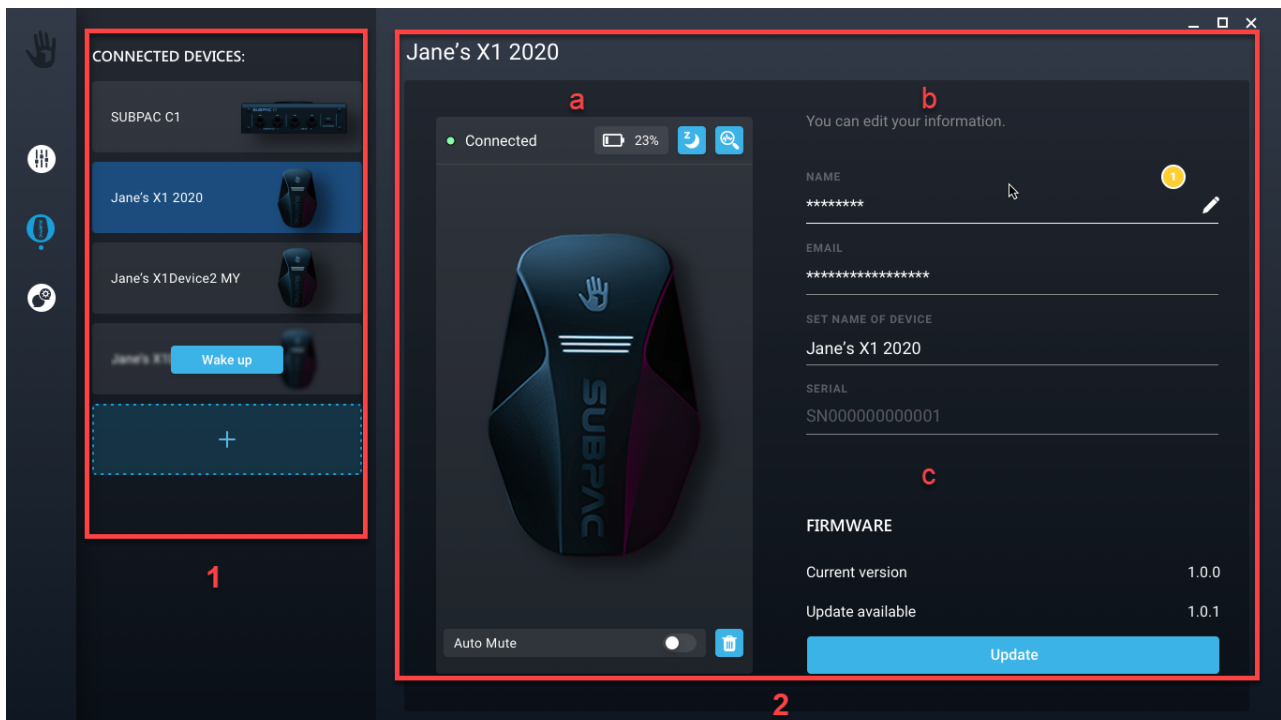
Note: When you open your SUBPAC C1 software with **Auto Mute** already toggled on, your SUBPAC X1 device wakes up once you sit in your chair and press against it. Ensure that your SUBPAC X1 device and C1 system have been fully configured.

22.5.1.3 DSP Features



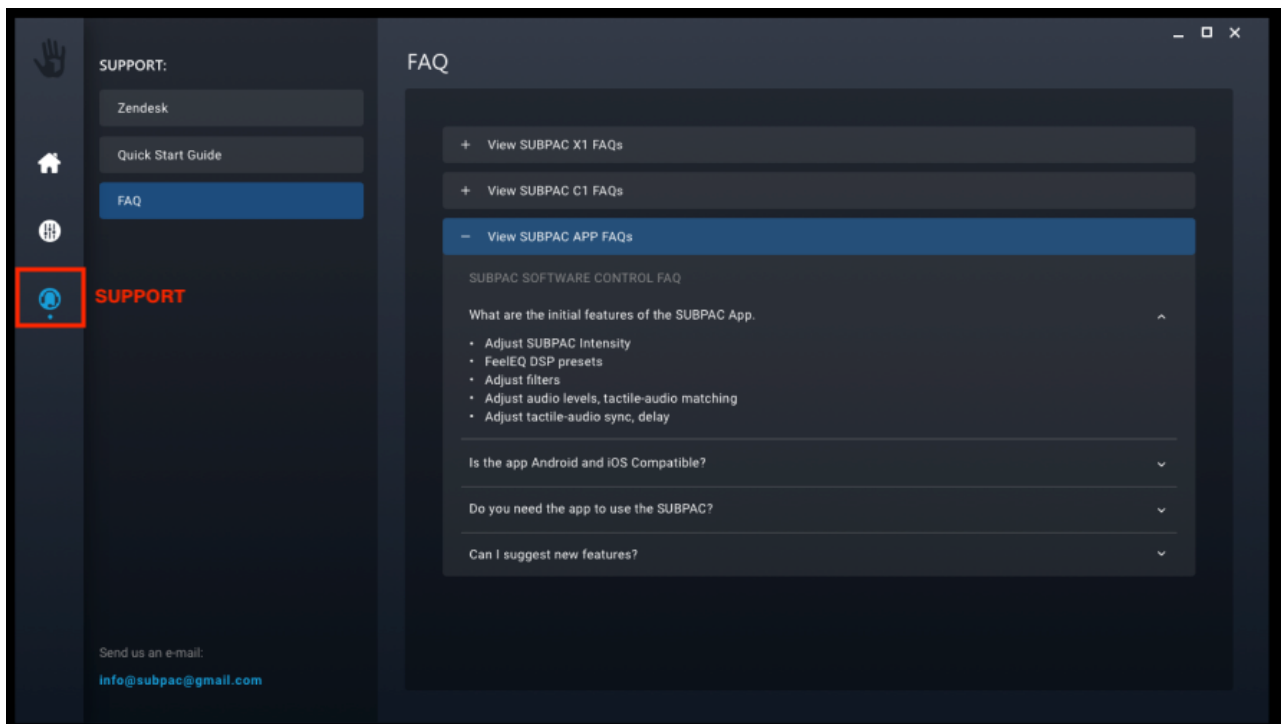
1. Distance and delay audio/tactile controls:
 - a. Click **Distance** and set the distance from the listening position to the speakers.
 - b. Click **Tactile Sync** and drag the Delay Tactile/Delay Audio faders to the tactile or audio signal delay setting you want.
2. EQ presets and filter controls
 - a. Preset drop-down list
 - b. Frequency spectrum, with lowest at 0hz to highest at 250hz. SUBPAC indicates frequency changes.
3. Sonarworks Integration

22.5.2 Connected Devices and Firmware Updates



1. Connected Devices panel - lists all devices connected to the C1 system, including the C1 control module and SUBPAC X1 devices. Click to select a device and see information about it.
2. Information panel for selected device:
 - a. Device status sub-panel - indicating the connection and battery status of your X1 device. Use this panel to put your X1 device to sleep, access device diagnostics, turn the auto-mute feature off, and remove the device from the C1 system.
 - b. Device registration and general information - click the pencil icon to edit the X1 registration information.
 - c. Device firmware information - if you see a new version number indicated beside **Update available**, click **Update** to download.

22.5.3 SUBPAC Support Options



- To access the SUBPAC support site, click **Zendesk**. You can view information about your SUBPAC devices or contact the SUBPAC support team.
- To learn about how to set up your SUBPAC X1, click **Quick Start Guide**.
- To learn more about the SUBPAC X1 and C1, click **FAQ**.

23 Establish Audio Connections

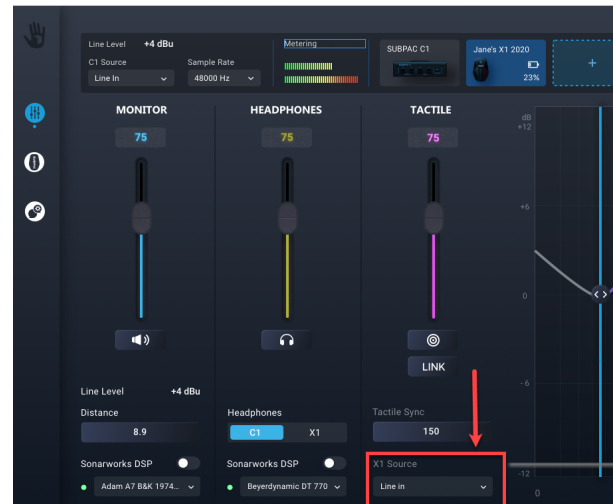
Use your C1 control module to connect to your desktop or the SUBPAC X1 Remote Control I/O to establish audio inputs and outputs in several ways.

Audio Connections	Action
Inputs	
USB-C <i>(rear panel)</i>	1. Ensure that you inserted the USB-C cable in the C1 control module USB-C rear panel port, and connected the cable to a USB-C port on your computer. 2. Select SUBPAC-C1 as your audio output device from your computer's audio settings.
¼" Line <i>(rear panel)</i>	If you do not have a USB-C connection to a host computer, you can still use the SUBPAC C1 system with limited functionality. 1. Insert your audio source into the ¼" input port in the rear panel of the C1 control module. 2. Use the C1 control module to control your audio experience with X1.
Outputs	

UWB to SUBPAC

[wireless; use the C1 application on the desktop]

Establish a UWB wireless connection between the SUBPAC C1 and the SUBPAC X1 from the main screen of the C1 application you installed on your desktop.



1. Select one of the SUBPAC X1 devices paired with your C1 system.
2. From the **X1 Source** drop-down list, select UWB.

The C1 system automatically establishes the UWB wireless connection to your X1 device.

3.5mm direct SUBPAC output - TBD

[rear panel]

You can establish a cabled connection between the SUBPAC C1 and the SUBPAC X1.

Insert your auxiliary 3.5 mm cable between the 3.5mm direct SUBPAC output port on your C1 control module and the SUBPAC X1 line-in port on the X1 Mini Remote I/O.

For details about the X1 Mini Remote I/O, see the SUBPAC X1 User Manual [provide a link to the online manual in the SUBPAC website].

Note: *If you do not use this port for the SUBPAC, you can use it as an additional headphone output port*

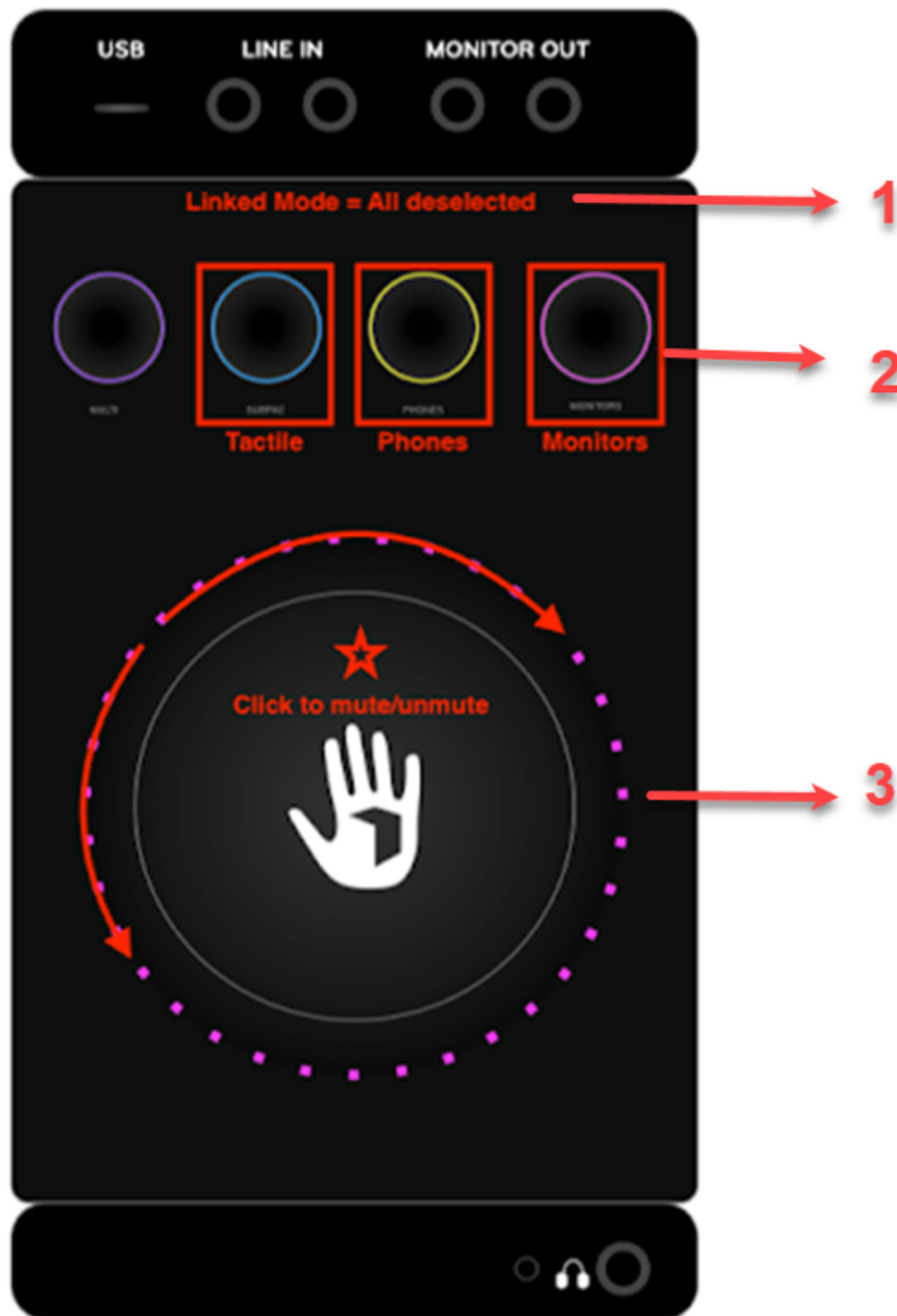
(Currently this output option is TBD)

Dual ¼” stereo out <i>[rear panel]</i>	Connect your studio monitors to the rear panel ¼” output ports.
¼”/3.5 mm headphones out <i>[front panel]</i>	1. Access the SUBPAC C1 main screen on your desktop, and under Headphones, click C1 or X1. 2. Do one of the following: • If you selected C1, connect your headphones to the ¼” or 3.5 mm headphones output port on the C1 control module front panel. • If you selected X1, connect your headphones to the line-in port on the SUBPAC X1 Mini Remote I/O. For more details on using the Mini Remote I/O, see the <i>SUBPAC X1 User Manual</i> [provide a link to the online manual in the SUBPAC website]. Note: Use the X1 option to avoid running a headphone cable from your desk to your chair,

24 Control your SUBPAC X1 with the C1 System

24.1 Use Your C1 Control Module

Your SUBPAC C1 control module allows you to easily adjust your audio and tactile volumes using its function buttons and control knob.



Your control module comprises these areas and functions:

1. **Linked mode indicator:**

- The link mode is the default mode for your C1 control module. In this mode, you can adjust both audio and tactile volume simultaneously. **(Are monitors linked too? Or is that an additional/separate mode?)**

- To adjust volumes, rotate the knob clockwise to increase levels, counterclockwise to decrease volume until you reach the desired volume.
- To delink and activate a single-mode, click the mode button, such as **Phones** or **Monitors**.
- To return to the link mode, click the currently activated mode to deselect it, and to re-establish the full linked mode.
- To mute or unmute, single-click the rotary knob.

1. Function buttons for **Tactile**, **Phones**, and **Monitors** modes.

- **Tactile mode:** To make tactile (SUBPAC) adjustments to the tactile volume independently, click the **Tactile** button. Click the rotary knob to mute or unmute the tactile mode only.
- **Phones mode:** To make adjustments to the volume of your headphones independently, click the **Phones** button. The LED indicators show whether you selected X1 or C1 headphone output on the C1 desktop application. Click the rotary knob to mute or unmute the Phones mode only.
- **Monitors mode:** To make adjustments to the volume of your studio monitors independently, click the **Monitors** button. Click the rotary knob to mute or unmute the Monitors mode only.

1. **Control knob**

- To adjust volumes, turn the rotary knob to the desired volume level. The number of notches lit by the LED indicators show the volume levels. For more detailed volume information/adjustment, see the C1 desktop application main screen.
- To mute/unmute one or more functional areas, such as **Tactile** or **Phones**, click the rotary knob.

24.2 Use Your C1 Desktop Application

While you control most of your SUBPAC X1 experience using the C1 control module, you can also view more detailed information about volume levels, as well as EQ presets and levels, on the main screen of your C1 desktop application. If desired, you can make additional volume adjustments from this screen.

24.2.1 Check the Metering Feature for Clipping Levels

You need to avoid input and output clipping levels during your SUBPAC sessions.

Red bars displayed in the **Metering** feature on the main screen of your C1 desktop application indicate that you are beginning to clip. Reduce your volumes.

25 LED Indicator Status

These indicators show the status of most SUBPAC C1 control module functions.

Controls	LED Indicator	Status
Tactile Mode/Input		
Button	Teal/Purple: • Purple for UWB connection • Teal for cabled connection	Tactile mode not muted.
	Red	SUBPAC/Tactile mode muted.
Knob	Teal/Purple: • Purple for UWB connection • Teal for cabled connection	Tactile mode not muted. Number of notches showing Teal/Purple indicate volume level.
	Red	SUBPAC/Tactile mode muted. Number of notches showing Red indicate volume level with tactile mode muted.
Phones Mode/Input		
Button	Yellow/Green • C1 phone option selected • X1 phone option selected	Indicates headphone connection.
	No colour	No headphone connection.
	Red	Headphones muted.
Knob	Yellow/Green	Number of notches showing Yellow/Green indicate volume level.

	Red	Number of notches showing Red indicate volume level with headphones muted.
Monitors Mode/Input		
Button	Orange	Monitors connected and live.
	Red	Monitors connected and mute.
Knob	Orange	Number of notches showing Orange indicate volume level.
	Red	Number of notches showing Red indicate volume level with monitors muted.

26 TIPS FOR OPTIMAL USE

26.1 Calibration

Before making any mixing decisions when using a new system, it's best to reference material you know and trust. This of course also applies to your SUBPAC.

To calibrate, start by listening to sub-heavy reference material and slowly increase the intensity to a comfortable level. We advise keeping your tactile levels around the halfway point, and certainly before hearing any resonances in the room.

As your ears/body/ mind adjusts to your new system, frequently test your track against your reference track during the mixing/mastering process. Adjust the FEELING (sub-bass) accordingly. If your bass feels as good as your reference on a SUBPAC, it will translate on a big system.

26.2 Optimal Levels

Optimal levels often come down to personal preference. We recommend low to moderate levels while using the SUBPAC in the studio.

You should never clip your audio or tactile levels. Use your SUBPAC C1 desktop application meter level indicators to monitor levels.

26.3 Hardware Placement

Place your SUBPAC C1 control module in a stable environment. Do not pile objects on top of it.

Leave enough room around the unit to allow for cabling.

27 SUBPAC MANUFACTURER'S 1 YEAR WARRANTY

1 – Year* Limited Warranty

SUBPAC's physical sound products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, SUBPAC will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to (i) cosmetic damage, such as scratches; (ii) rips in textile elements or straps; (iii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iv) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (v) damage caused by service performed by anyone who is not an authorized service provider of SUBPAC; or (vi) damage to a product that has been modified or altered without the written permission of SUBPAC.

All merchandise and accessories, including t-shirts, are not eligible for warranty or return. All merchandise and accessories are final sales.

In addition, SUBPAC reserves the right to refuse warranty claims against products or services that are obtained and/or used in contravention of the laws of any country.

Repairs have a 90-day warranty. If the unit sent in is still under its original warranty, then the new warranty is 90 days or to the end of the original one-year warranty, depending upon which is longer.

SUBPAC retains the exclusive right to repair or replace (with a new or newly-refurbished replacement product) the device or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

TO THE EXTENT PERMITTED BY LAW, THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY BY PROVINCE, STATE OR COUNTRY (AS THE CASE MAY BE).

IN NO EVENT SHALL SUBPAC BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

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To obtain warranty service, submit a SUBPAC support ticket here, and describe the problem you're experiencing. Our team will evaluate your situation and will provide further instructions.

Note: To obtain warranty service, an original or copy of the sales receipt from the original retailer is required.

USED AND ONLINE AUCTION PURCHASES: Products purchased through online auctions, or purchased second hand, including but not limited to "Warehouse Deals, Inc." or "Amazon Warehouse Deals" are not eligible for warranty coverage. Online auction confirmations are not accepted for warranty verification. Warranties are not transferable.

28 SUBPAC Manufacturer's 1 Year Warranty

1 – Year* Limited Warranty:

SUBPAC's physical sound products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, SUBPAC will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to (i) cosmetic damage, such as scratches; (ii) rips in textile elements or straps; (iii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iv) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (v) damage caused by service performed by anyone who is not an authorized service provider of SUBPAC; or (vi) damage to a product that has been modified or altered without the written permission of SUBPAC.

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- 2-year warranty where mandated by law.

Subpac owner's manual regulatory statements:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Operation is subject to the following conditions: 1) This device may not cause harmful interference and 2) This device must accept any interference received, including interference which may cause undesired operation. Changes or modification not expressly approved by Subpac could void your authority to operate this equipment.

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

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:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and the receiver.
- (3) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

UWB Operation Statement:

- a) Operation aboard an aircraft or ship is prohibited.
- b) UWB operation is authorized for indoor use only.

RF Exposure Statement:

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter used in other systems. This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

CAUTION! Electrical shock can result from removal of the component's covers. Static Hazard: Permanent operational damage can result from removal of the component's covers. Refer servicing to qualified service personnel. No user-serviceable parts inside. Do not expose to rain or moisture without taking appropriate precautionary steps.

The circuits inside the system components have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open components. To do so will void the warranty and may cause improper operation.

Notice to individuals with implanted cardiac pacemakers or AICD devices: Any source of RF (radio frequency) energy may interfere with normal functioning of the implanted device. All wireless microphones have low-power transmitters (less than 0.05 watts output) which are unlikely to cause difficulty, especially if they are at least a few inches away. **Please contact your physician or medical-device provider if you have any questions, or experience any problems with the use of this or any other RF equipment.**