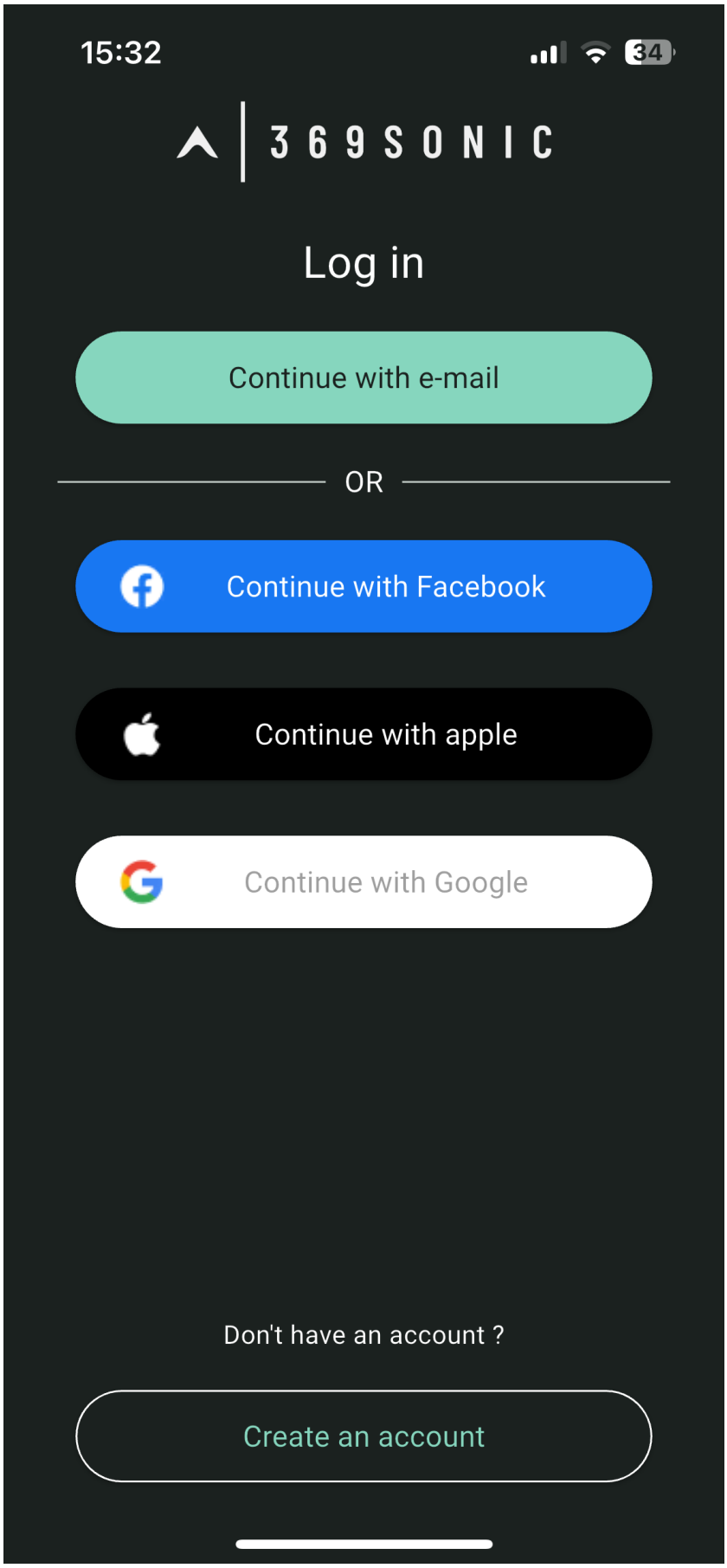
APPLICATION GUIDE
369Sonic

369SONIC

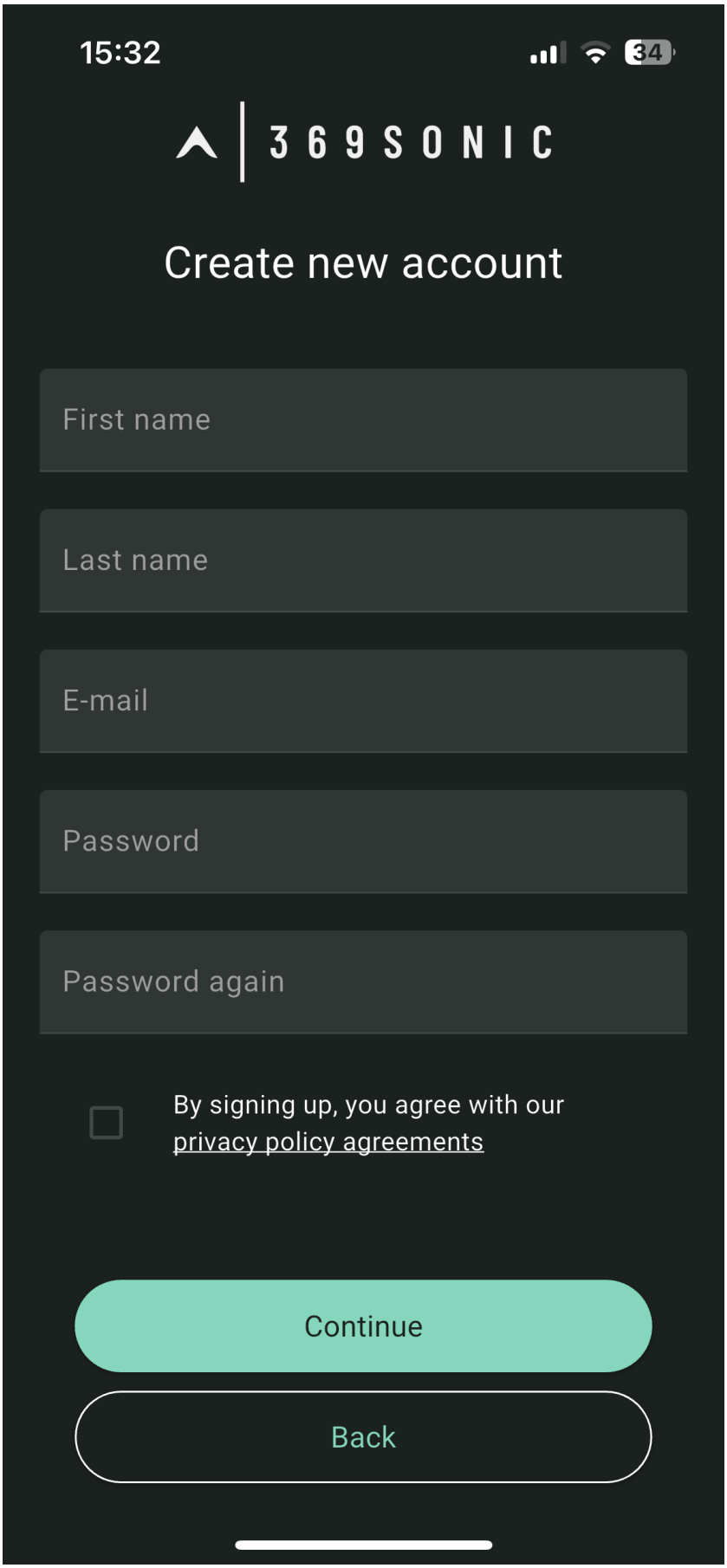
LOGGING INTO THE APP / CREATING A NEW ACCOUNT



If you already have an account, click on "Continue with Email" and log in using your email address and password.

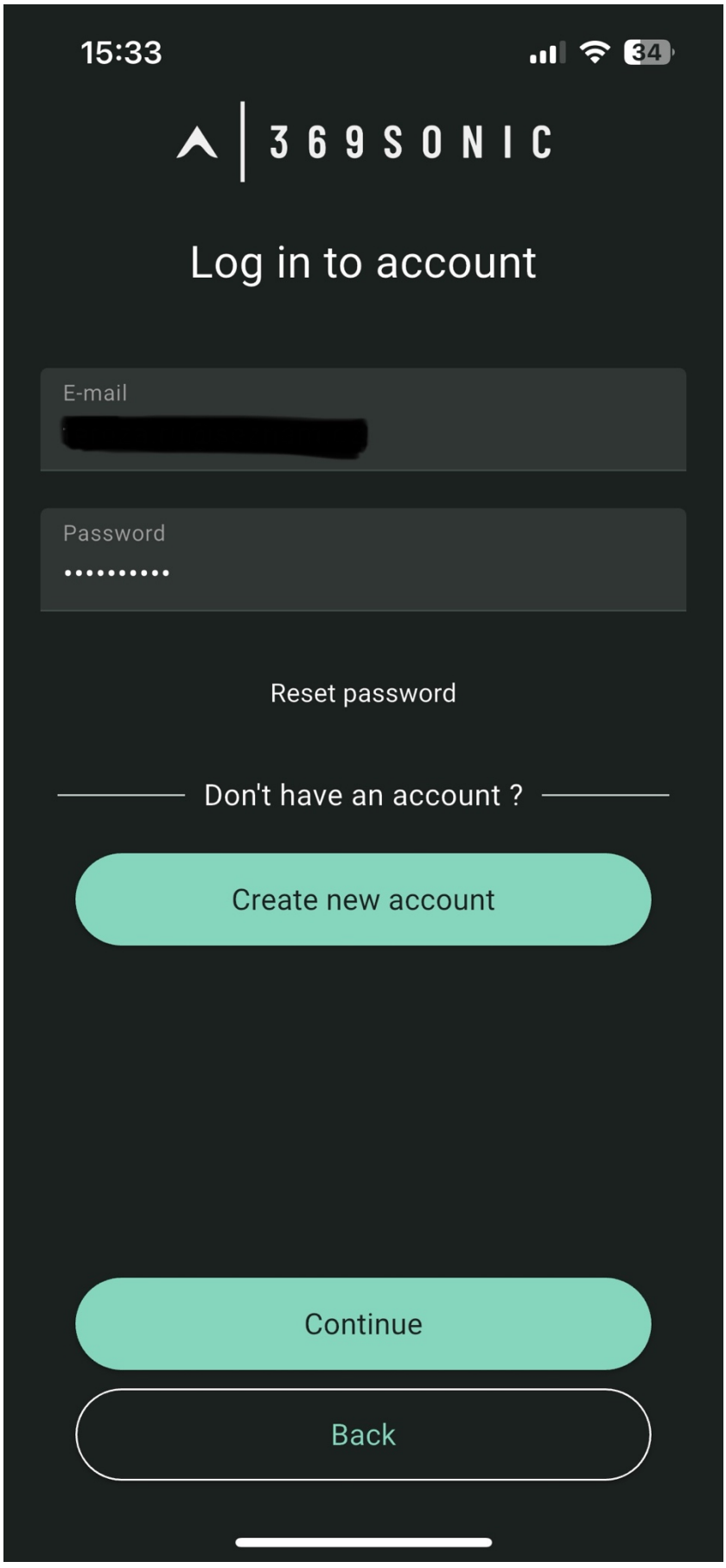
Log in without the need to create a new account using your Facebook, Apple ID, or Google account. Simply click the corresponding button and follow the instructions.

If you don’t have an account yet, click on "Create an account." Then, enter your email and create a password to fully access the app.



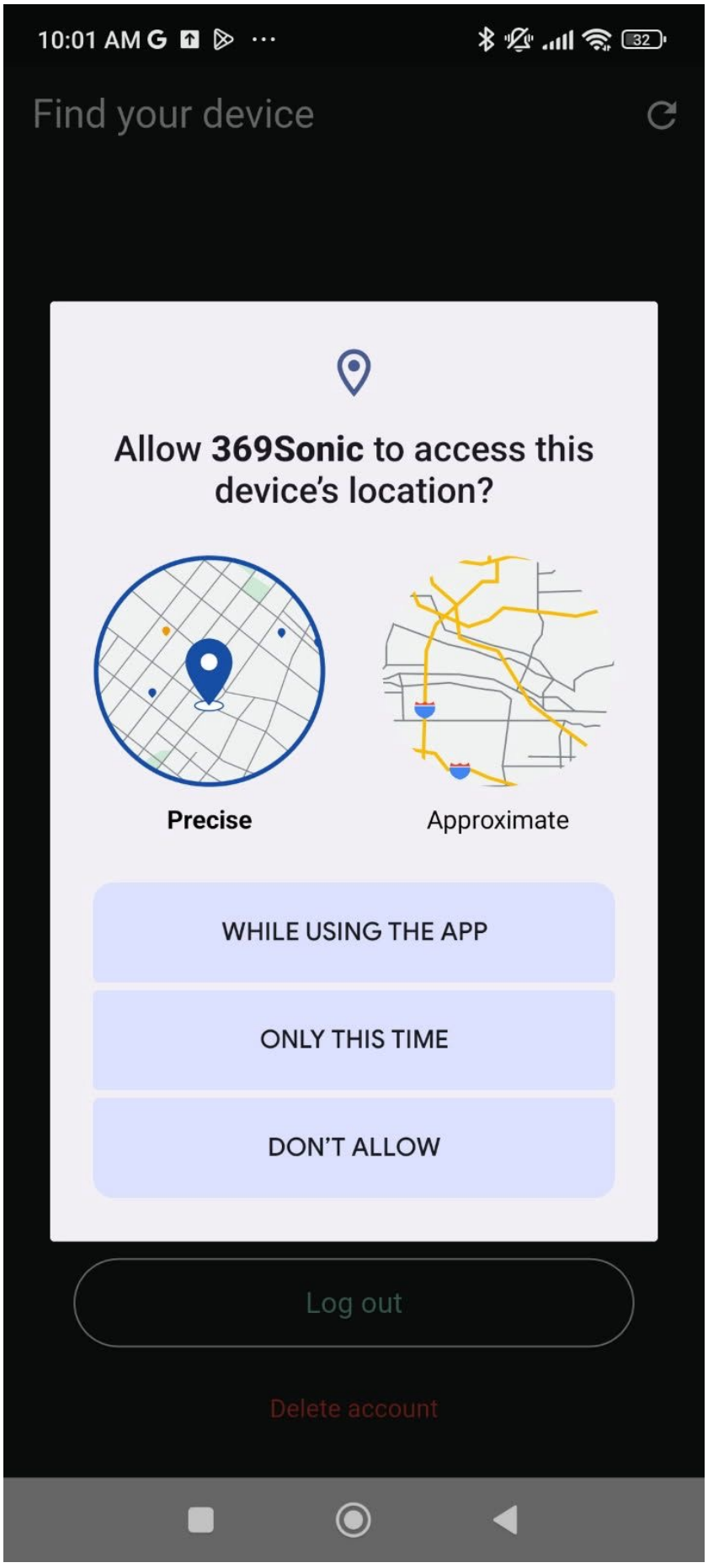
- Fill in your First name, Last name, E-mail), and choose your Password.
- Re-enter your password in the Password again field for verification.
- Check the box to agree to the privacy policy agreements.
- Click Continue to complete the registration.

If you want to return to the previous screen, click Back.

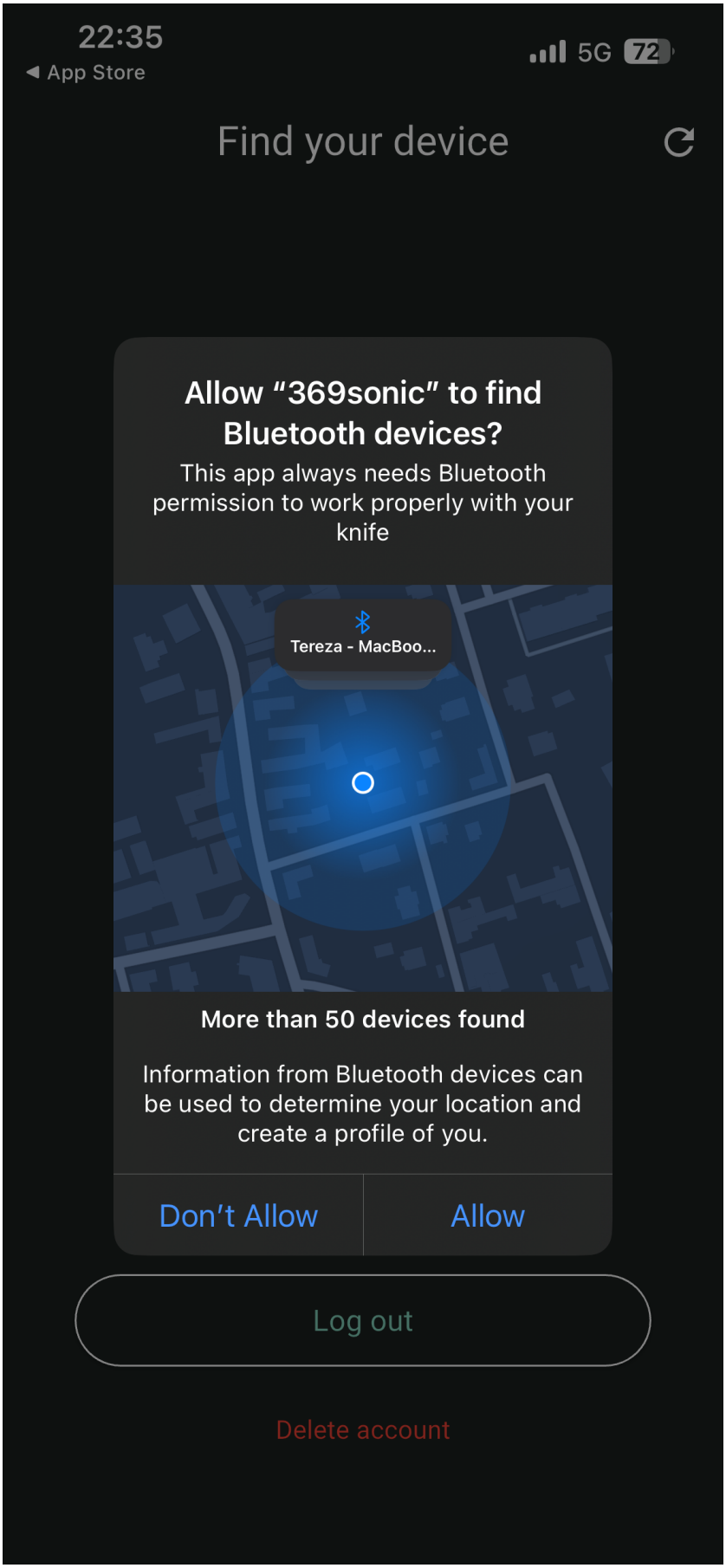


Log in to the app and press Continue.

ALLOW ALL NOTIFICATIONS



It is important to allow location access always while using the app. Otherwise, you will need to enter the app code and blade code again each time you start the app.

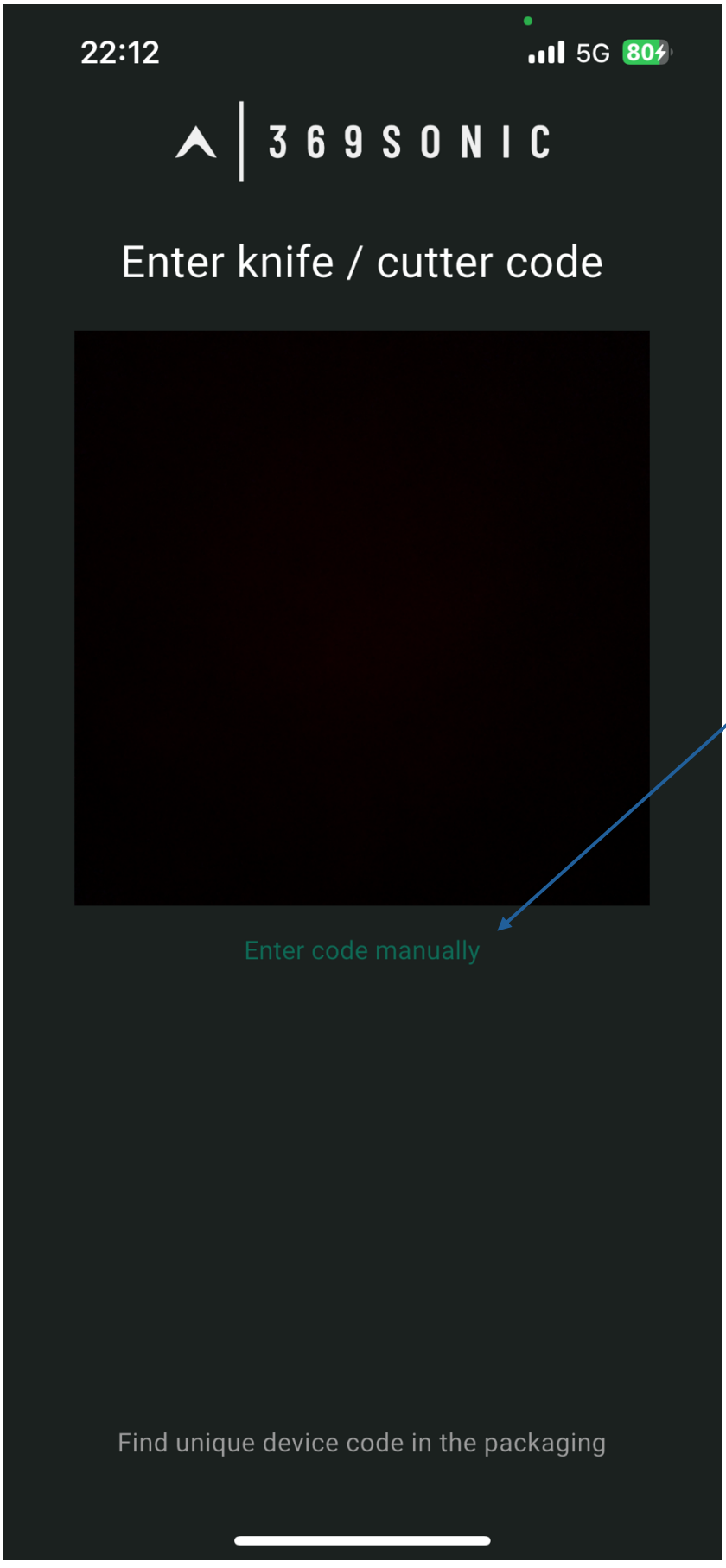


For the app to detect the device, Bluetooth must be turned on, and the necessary permissions must be granted.

If the name "Ultras" does not appear in the list of available devices, try clicking the refresh icon (arrow in the top right corner).

Make sure the knife has a connected and charged battery and is close to your phone.

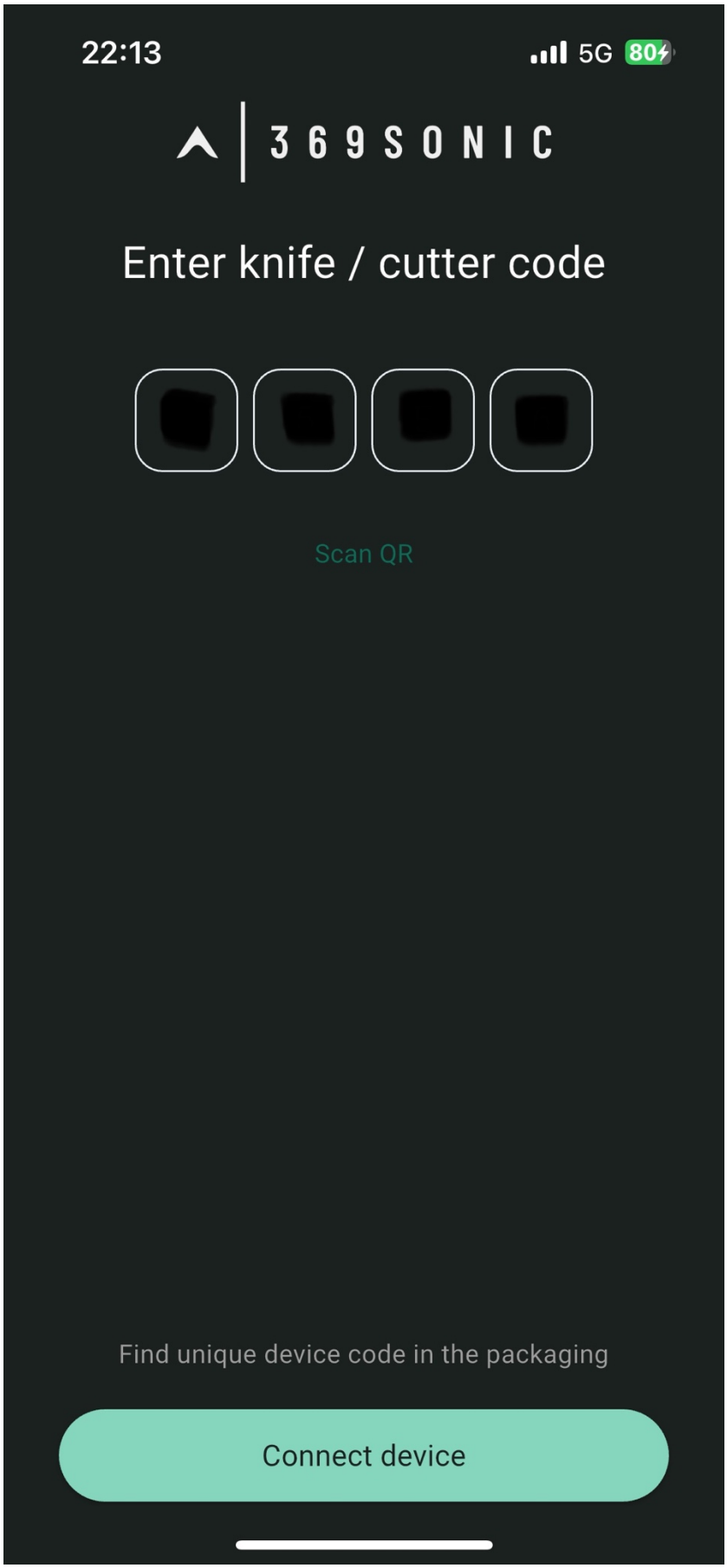
The knife remains visible even during extended inactivity (**sleep mode**). However, to connect to the knife, you need to wake it from **sleep mode** by pressing the button briefly.



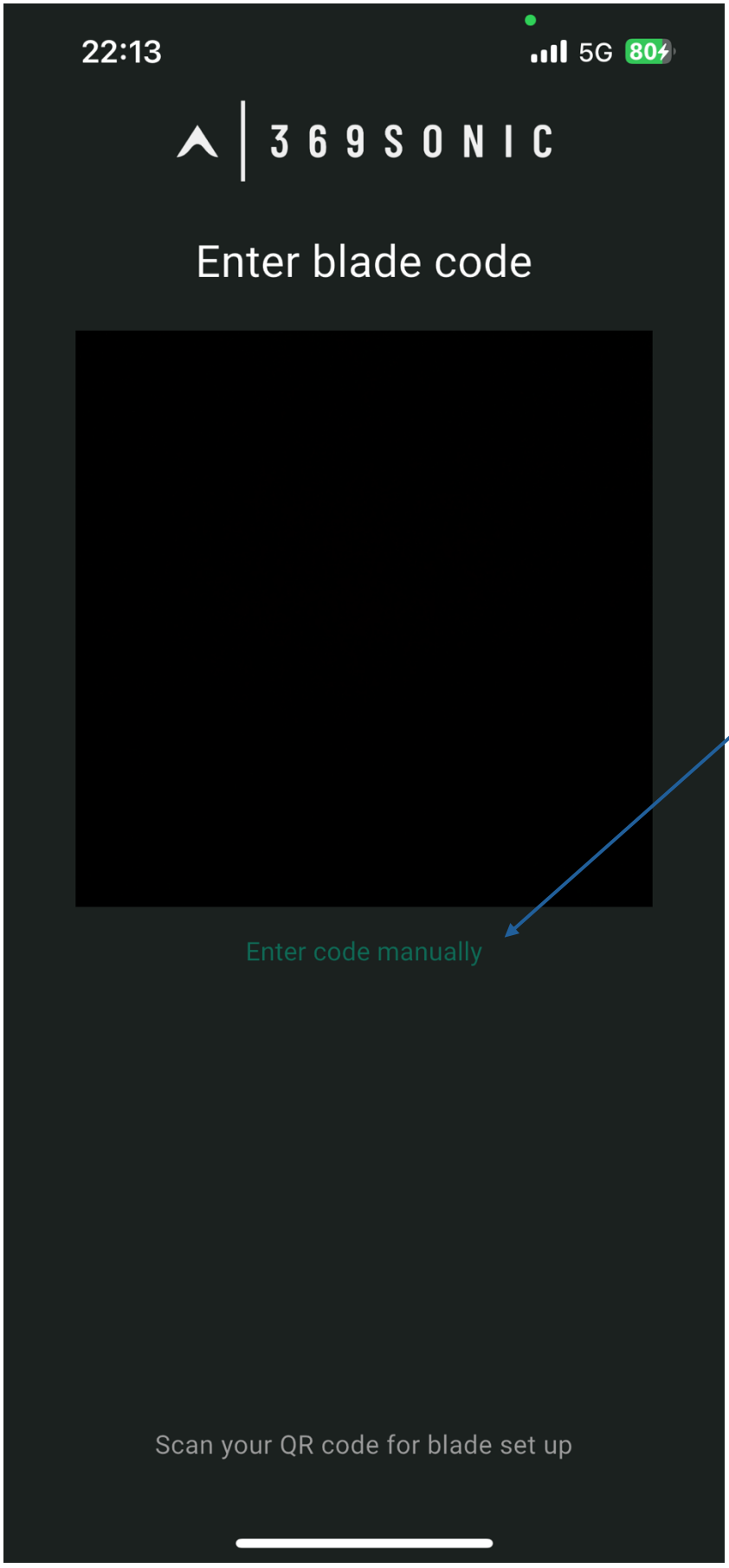
Enter the unique code you received with your order. This code is required to activate your device.

If you don’t have a QR code to scan, you can enter the code manually by clicking **"Enter code manually."**

If you experience any issues with the code, please contact us.



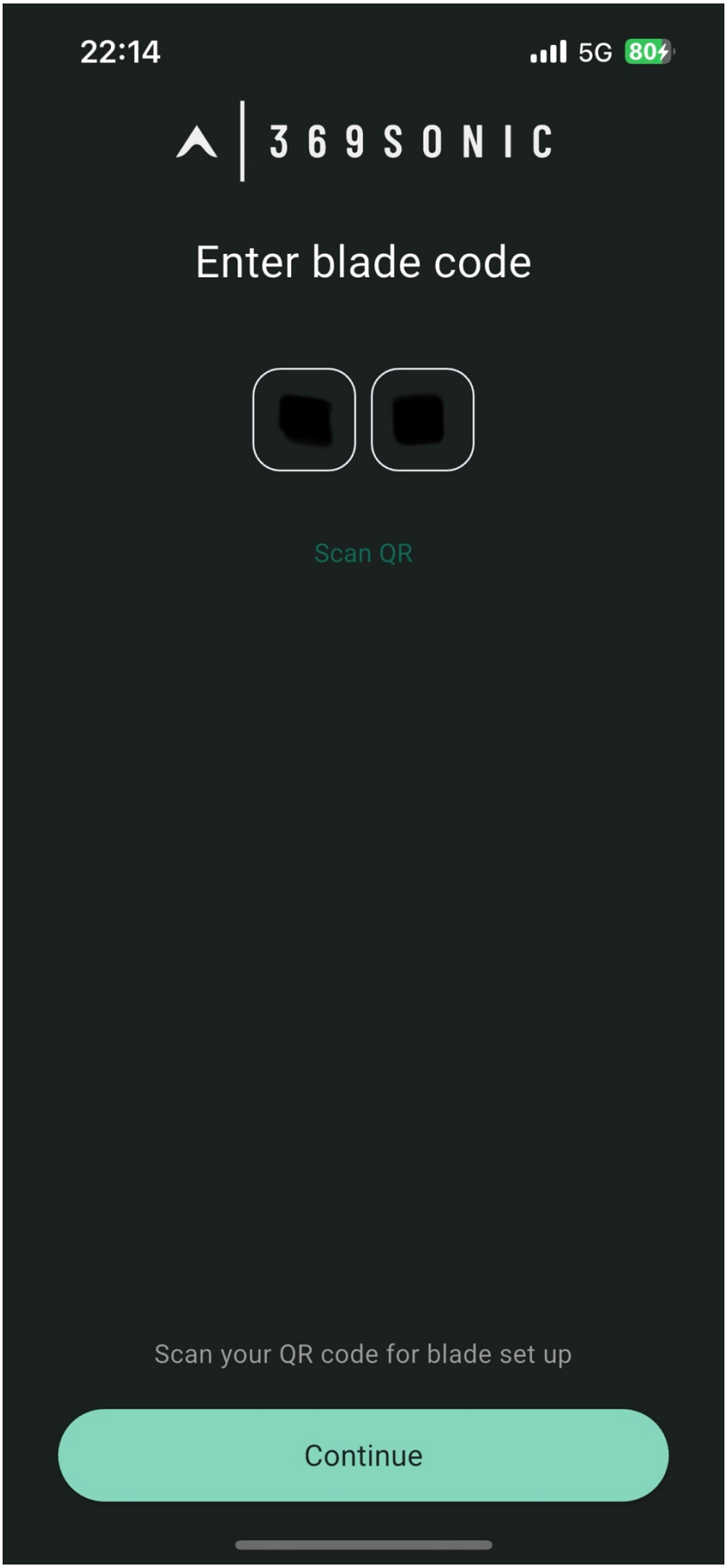
Enter the 4-digit code and press "Connect Device."



After entering the device code in the previous step, you now need to enter the blade code.

Scan the QR code that came with the blade, or enter it manually by clicking **"Enter code manually."**

This step is essential for properly configuring the app interface for the specific blade.



Enter the blade code and press "Continue."

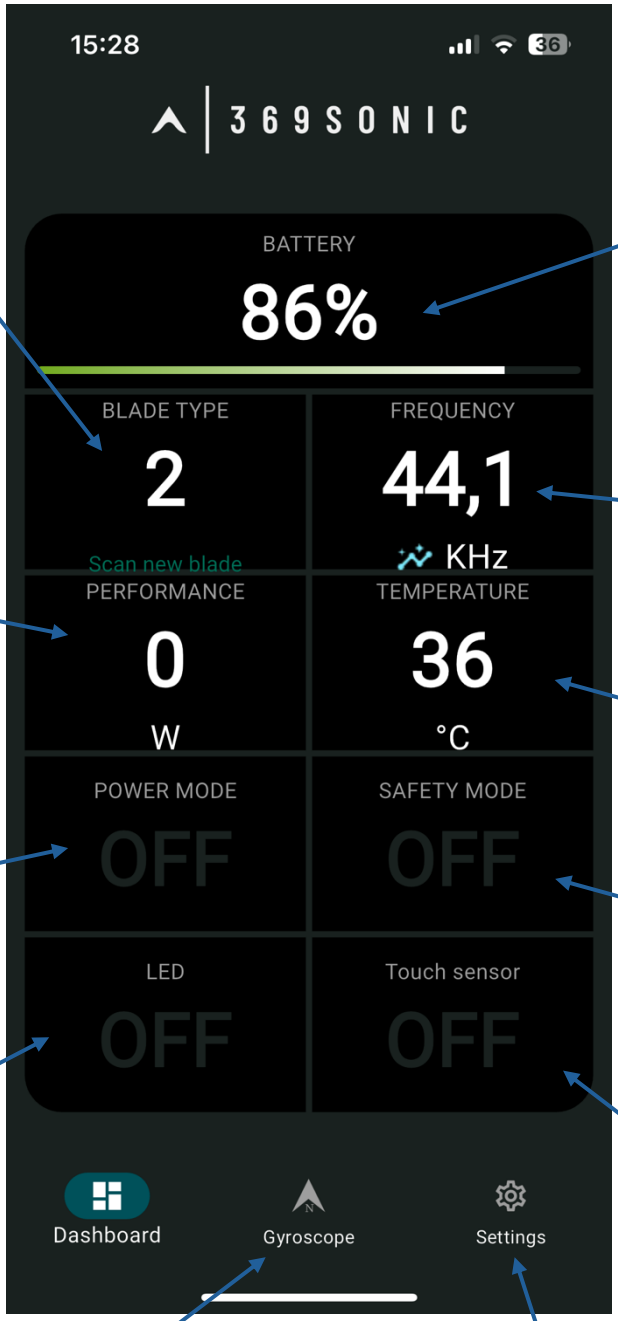
GETTING STARTED WITH THE APP

Here you can see the currently selected blade type. If you change the blade, you need to update its type in the app.

Displays the current power of the knife. The maximum power is 45W, but power limits vary depending on the set values in Standard and Power Mode.

Allows increasing power beyond the standard level. The final output depends on the set value in the "Power Mode" settings.

If your device version includes an LED light, you can turn it on directly through the app.



The indicator shows the current battery level. At higher power levels, it is normal for the battery capacity to decrease more quickly.

Displays the current operating frequency of the knife. By clicking, you can adjust the frequency or choose from various automatic adjustment modes.

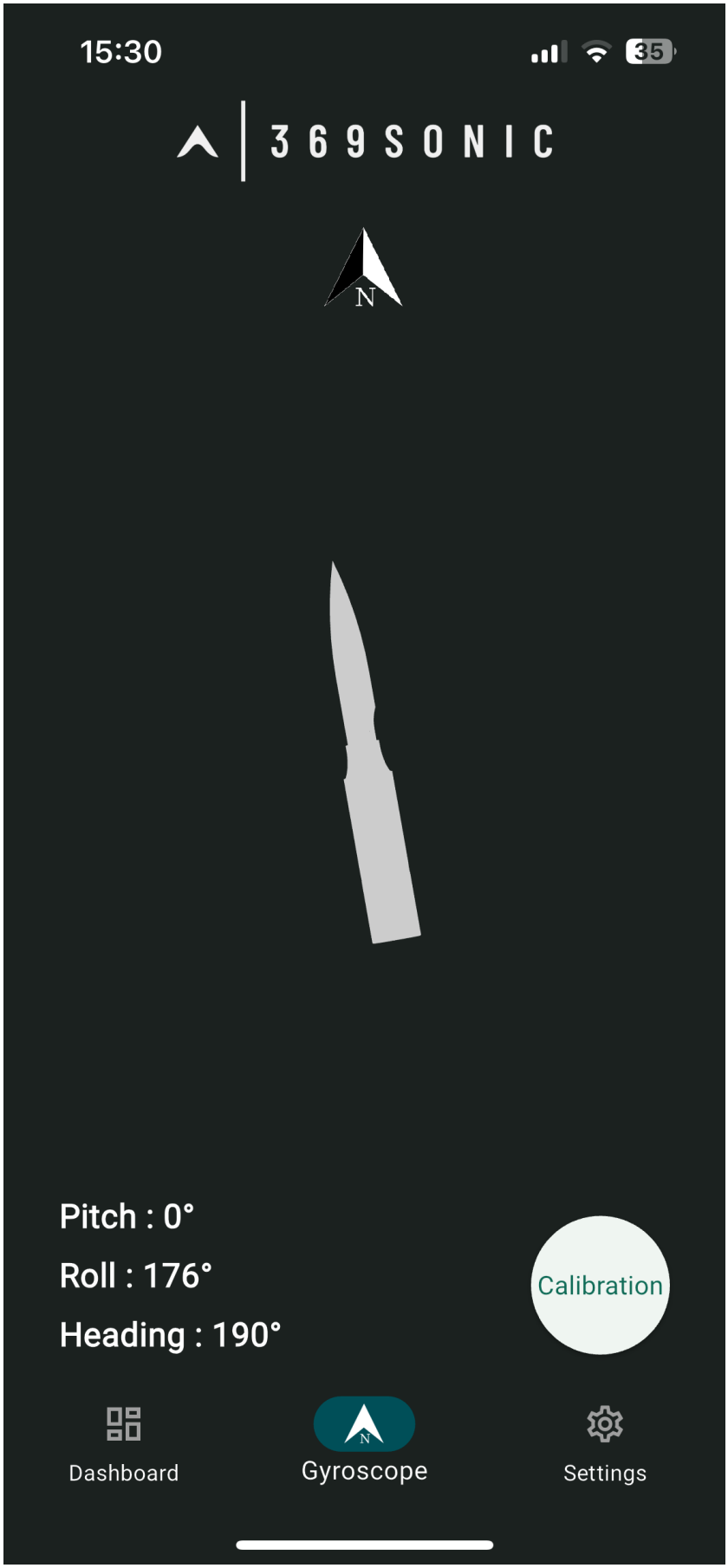
Indicator of the internal temperature of the device. The maximum allowed temperature is 60°C.

Used to lock the device via the app to prevent accidental activation.

A safety feature that turns off the device if you stop holding it. Note that due to interference, it may not be 100% reliable and may not always successfully turn off the device.

Clicking this icon will take you to the gyroscope page, where you can monitor the device's orientation (pitch, Roll, Heading).

Clicking on "Settings" will take you to the settings menu.



Gyroscopic Position of the Device

The app displays the knife's orientation relative to **north**, represented by a compass symbol.

- **Pitch (Forward/Backward Tilt)**
  Indicates the angle of the knife tilting up or down.
- **Roll (Side Tilt)**
  Shows the knife's inclination angle to the sides (right/left).
- **Heading (Blade Direction Relative to North)**
  Indicates the rotation of the knife around its vertical axis.
- **Gyroscope Calibration**
  Due to external interference, inaccuracies may occur. Therefore, calibration may occasionally be necessary.

How to Perform Calibration

Clicking the **"Calibration"** button starts a **10-second calibration process**. During this time, rotate the device in all directions and angles.

Safety Recommendation

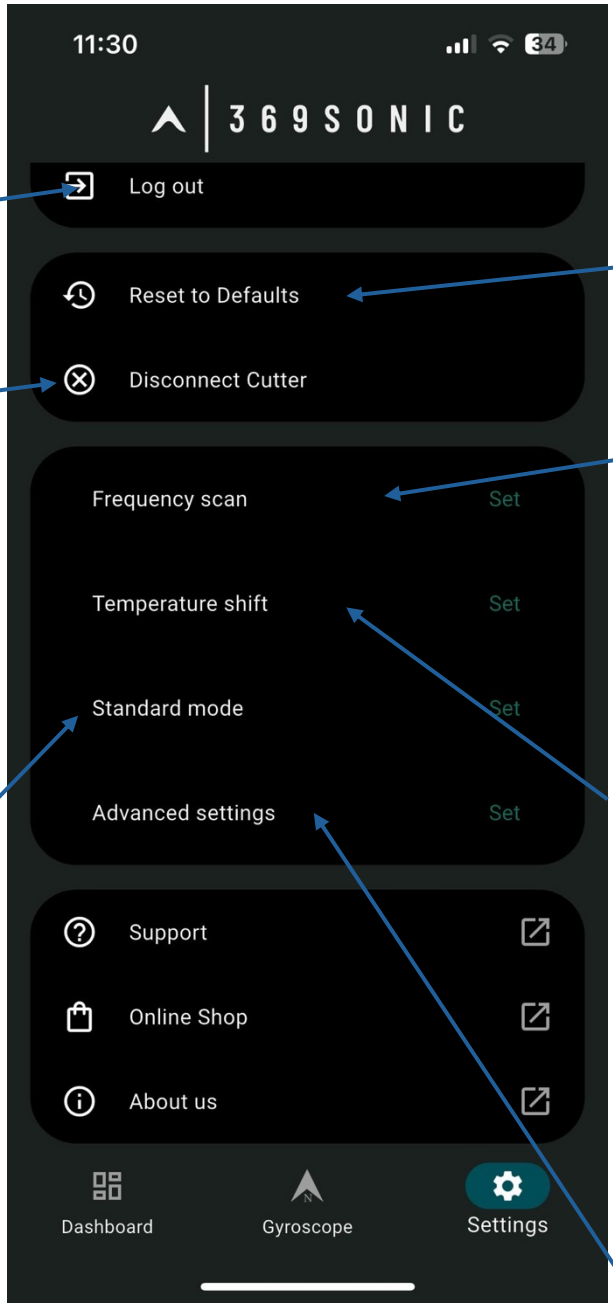
During calibration, we recommend using the **blade safety cover**.

⚠️ **Notice!** The displayed values are for reference only and may not be **100% accurate**.

Log Out – Sign Out of the App
To log back in, you will need to enter your email and password again.

Disconnect Knife / cutter – Device Sign Out
When reconnecting, you will need to enter your unique code and blade code again. If you use two of our knives, you must first disconnect from one before connecting to the other.

Standard Mode Set
Used to adjust the voltage, which directly affects performance. If Power Mode is enabled, the system will automatically switch to Power Mode.



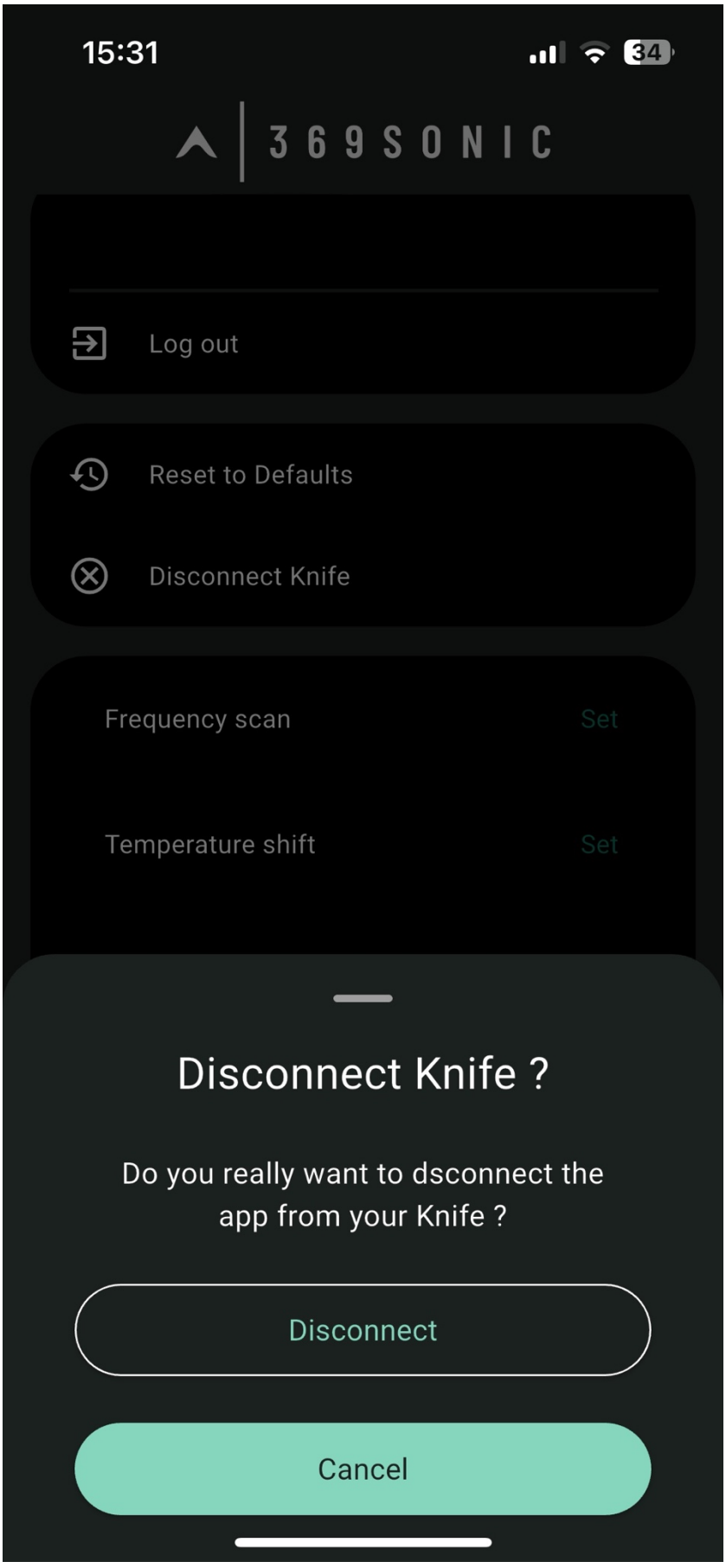
Reset to Defaults
Completely erases all settings on your device, including frequencies, temperature shifts, voltage, and other parameters.

Frequency Scan – Used to search for and set the resonance frequency.

Temperature Shift – Used to adjust temperature shift.

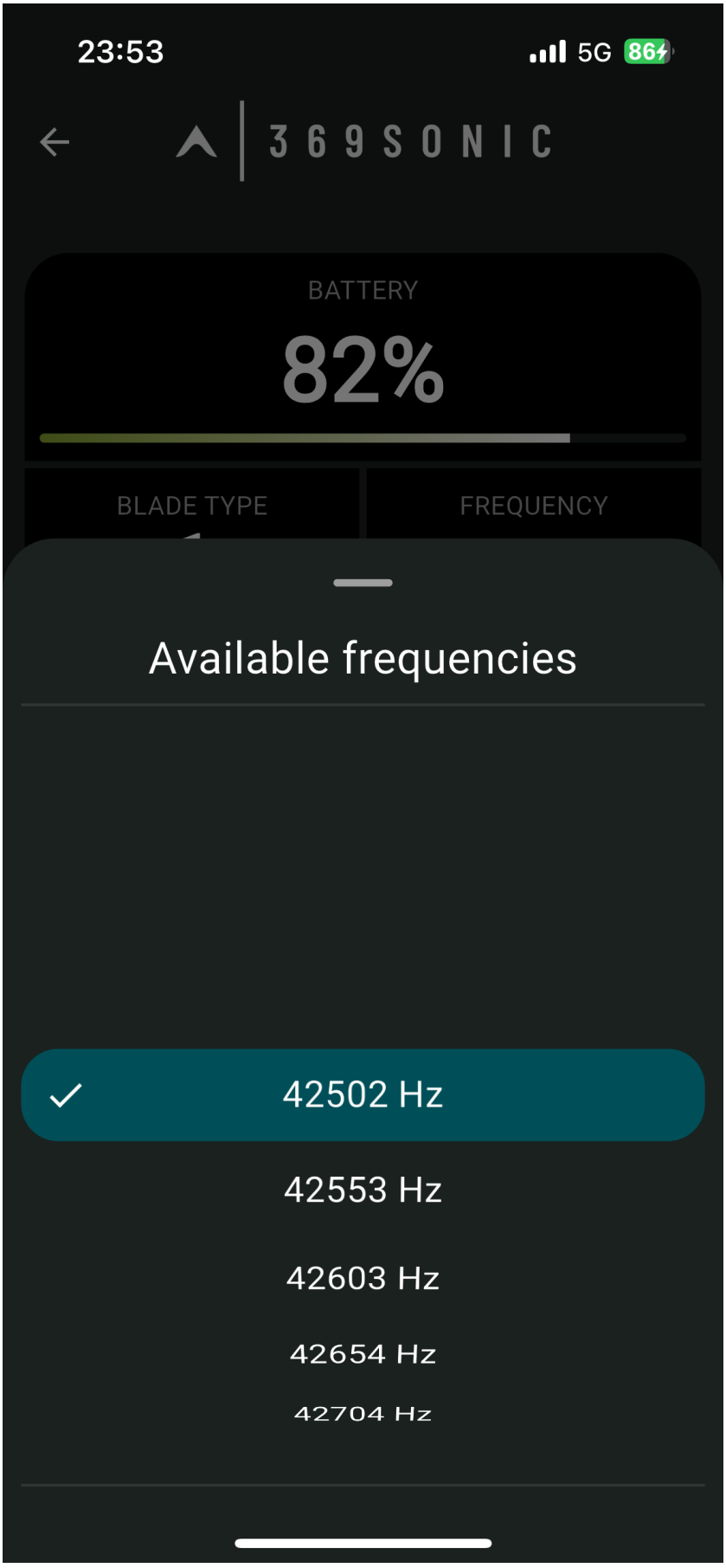
Advanced Settings
These settings are intended for advanced adjustments. The cutters and knives are pre-configured before shipping, so we kindly ask you to make changes only if necessary and if you understand why the values are being adjusted.

DISCONNECT KNIFE / CUTTER



If you want to disconnect your device, click on "Disconnect Knife" and select "Disconnect."
If you have multiple devices, you must always disconnect one before connecting another.

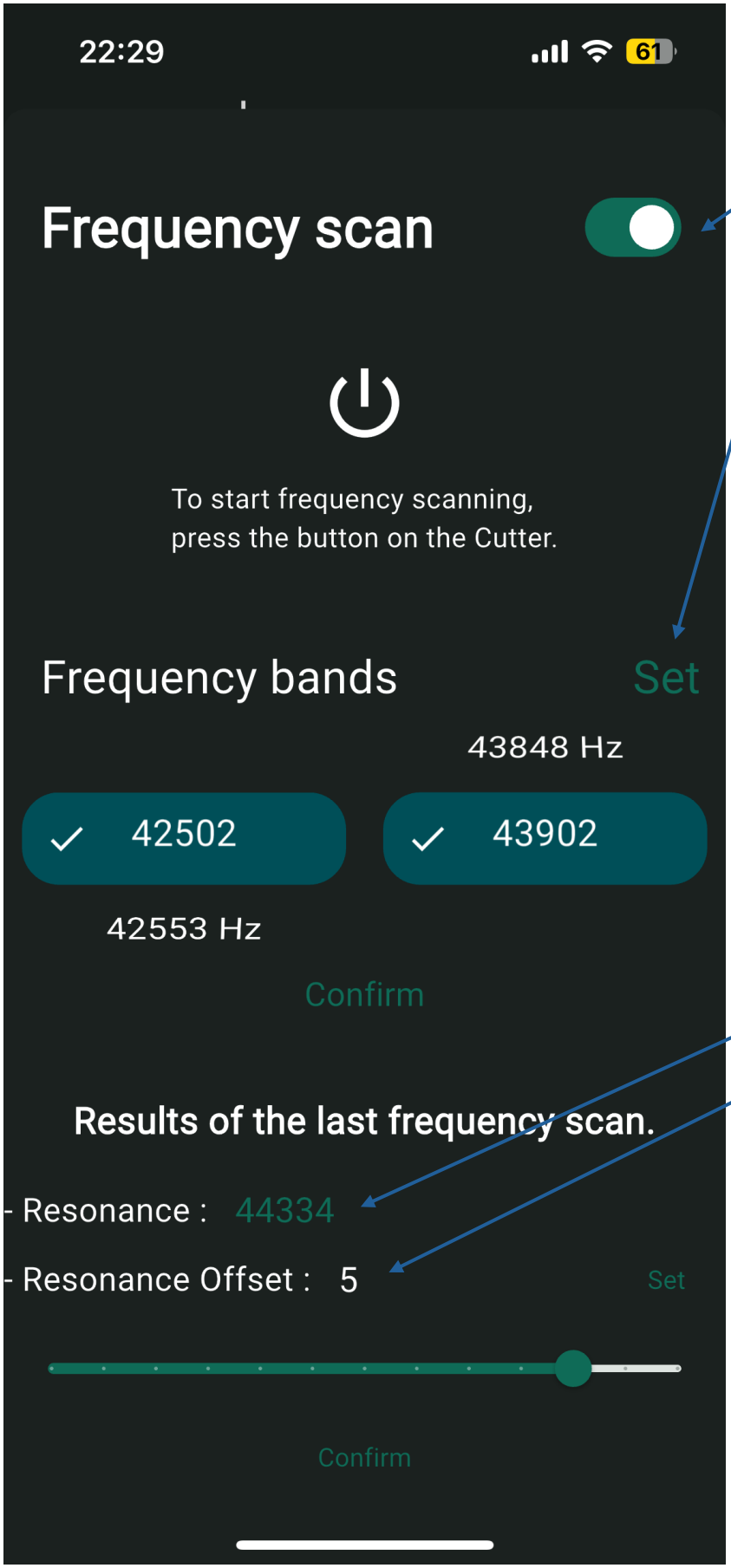
FREQUENCY



When you click on **Frequency** on the main page of the app, this tab will open, displaying all available frequencies. You can manually adjust the frequency, but keep in mind that the device operates (cuts) **only in resonance**, meaning it will work only at specific frequencies from the list.

Different frequencies may also have varying power loads on the device, and some frequencies may cause the blade to produce a noticeable high-pitched sound. Therefore, adjustments should be made carefully. If you are manually tuning the frequency and recording **temperature shifts**, we recommend **first lowering the Standard Mode value** to a lower level, such as **5, 6, or 7**. This helps prevent excessive strain on the device when selecting a frequency with high power consumption.

FREQUENCY SCAN



Activating the frequency scan will start searching for the resonance frequency. The process is very quick.

1. Activate the scan by toggling the switch.
2. Press the button on the knife.

Frequency Bands
If you need to search for the resonance frequency within a narrower range than the default band for your blade, you can set a custom range in Frequency Bands (start and end frequency of the scan).

To use this feature, the Frequency Scan switch must be activated.

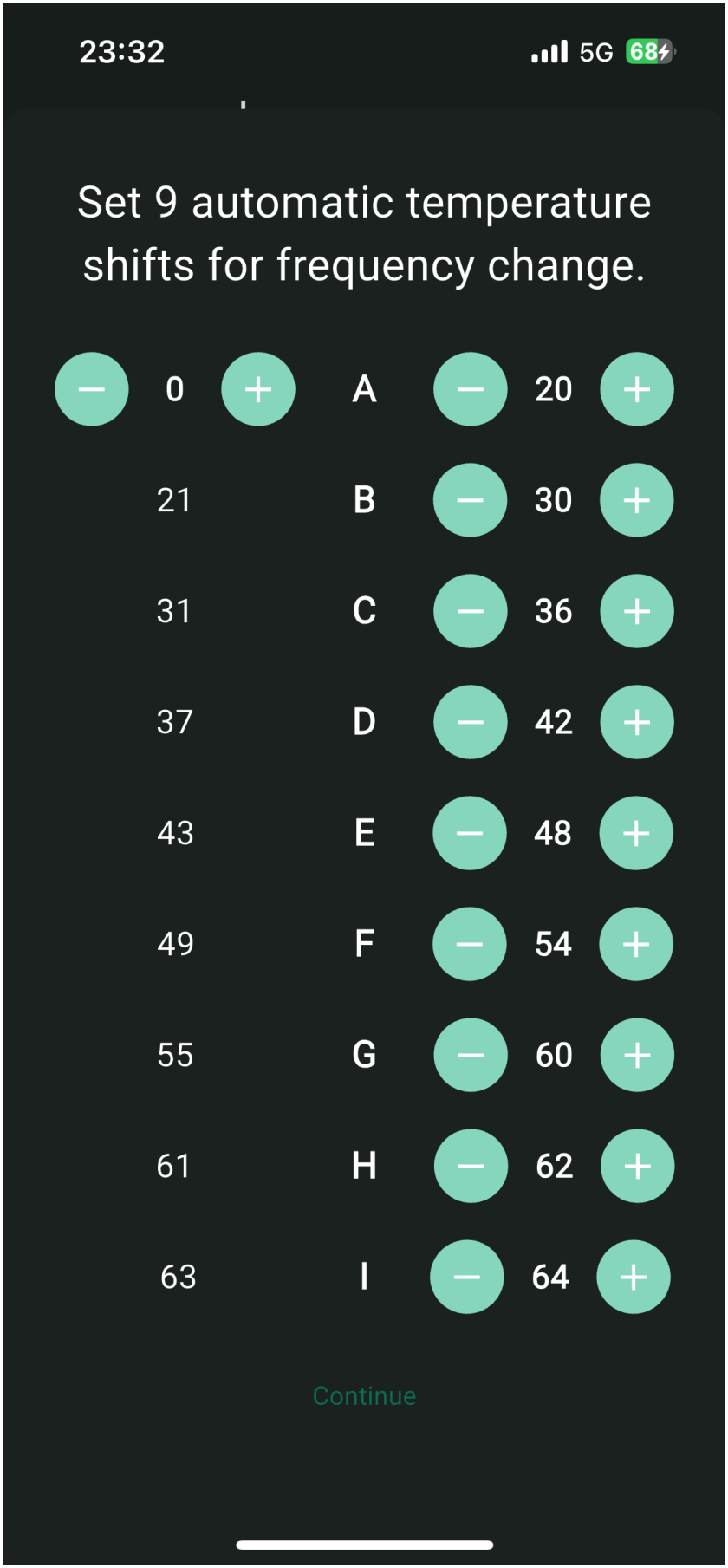
This is an advanced setting – we recommend using it only if you know the specific frequency you are looking for.

Search Result
If you want to use this resonance, click on it, and it will automatically be set as the default frequency.

Resonance Offset
This function is related to **dynamic automatic tuning**. It is not always optimal to stay exactly at the detected resonance frequency. By setting the **resonance offset**, you determine how many frequency steps ahead or behind the resonance the cutting will be adjusted.

This is an **advanced setting** and should only be modified if you understand why you need to use resonance with an offset.

TEMPERATURE SHIFT



Temperature Shift – Frequency Temperature Adjustments

As the device heats up, the frequency shifts toward lower values. Therefore, it is necessary to identify key temperature points and adjust the frequency accordingly.

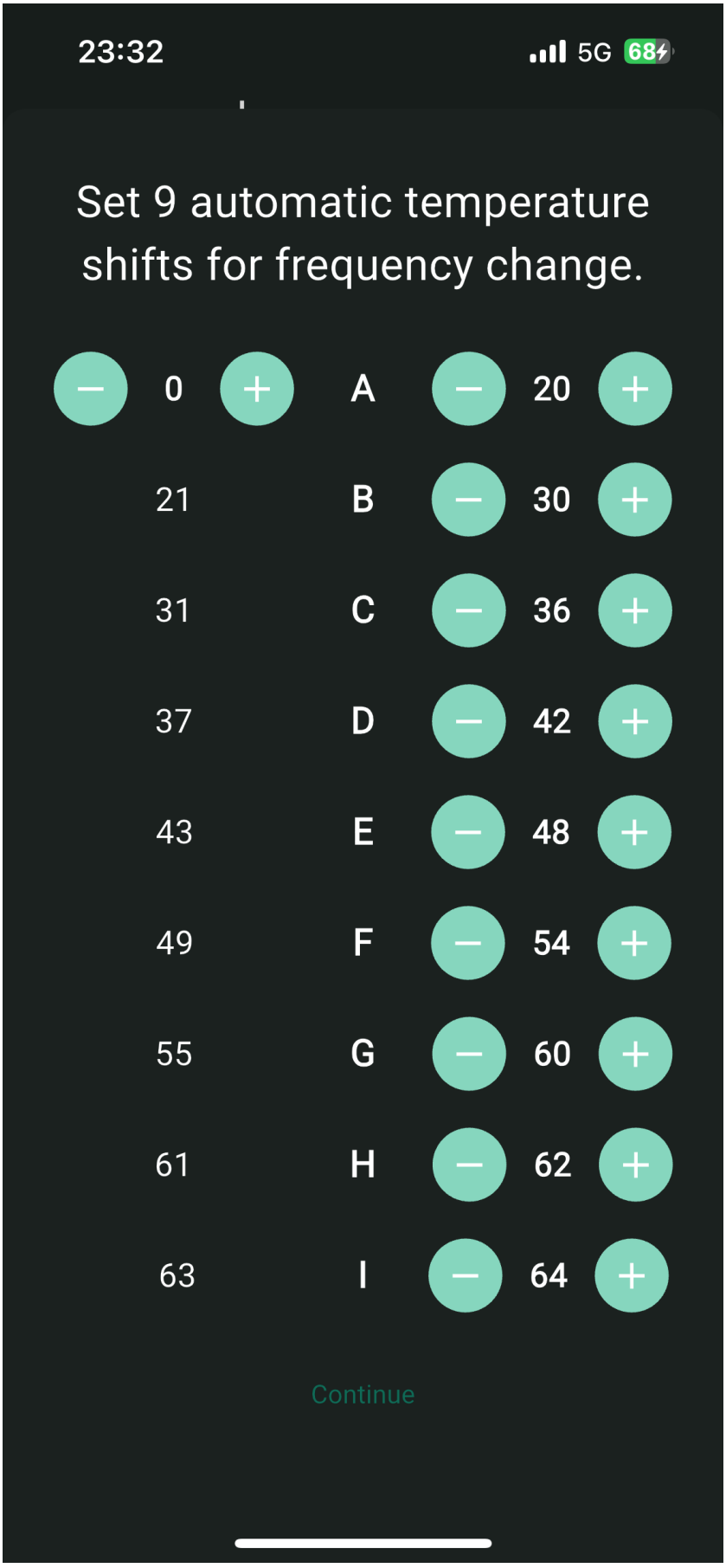
First, determine the frequency at which the knife cuts optimally at room temperature (e.g., 0–25°C). Then, observe when the knife starts losing cutting efficiency at this frequency and when it performs better at a lower frequency. Enter these values into the frequency shift table.

Example settings:

- 0 – 20°C → Knife cuts at 43 kHz
- 21 – 30 °C → Optimal cutting frequency 42.953 kHz
- 31 – 36°C → Optimal cutting frequency 42.900 kHz
- 47 – 42°C → Optimal cutting frequency 42.800 kHz
- 43 – 48°C → Optimal cutting frequency 42.700 kHz
- 49 – 54°C → Optimal cutting frequency 42.600 kHz
- 55 – 60°C → Optimal cutting frequency 42.500 kHz
-

Temperature shifts must be set up to 60°C. To submit the configuration, the table must be fully completed, even if values above 60°C are not used. Ensure that the temperature values transition smoothly—the exact final temperature is not critical.

EXAMPLE OF FILLING IN THE TEMPERATURE SHIFT TABLE

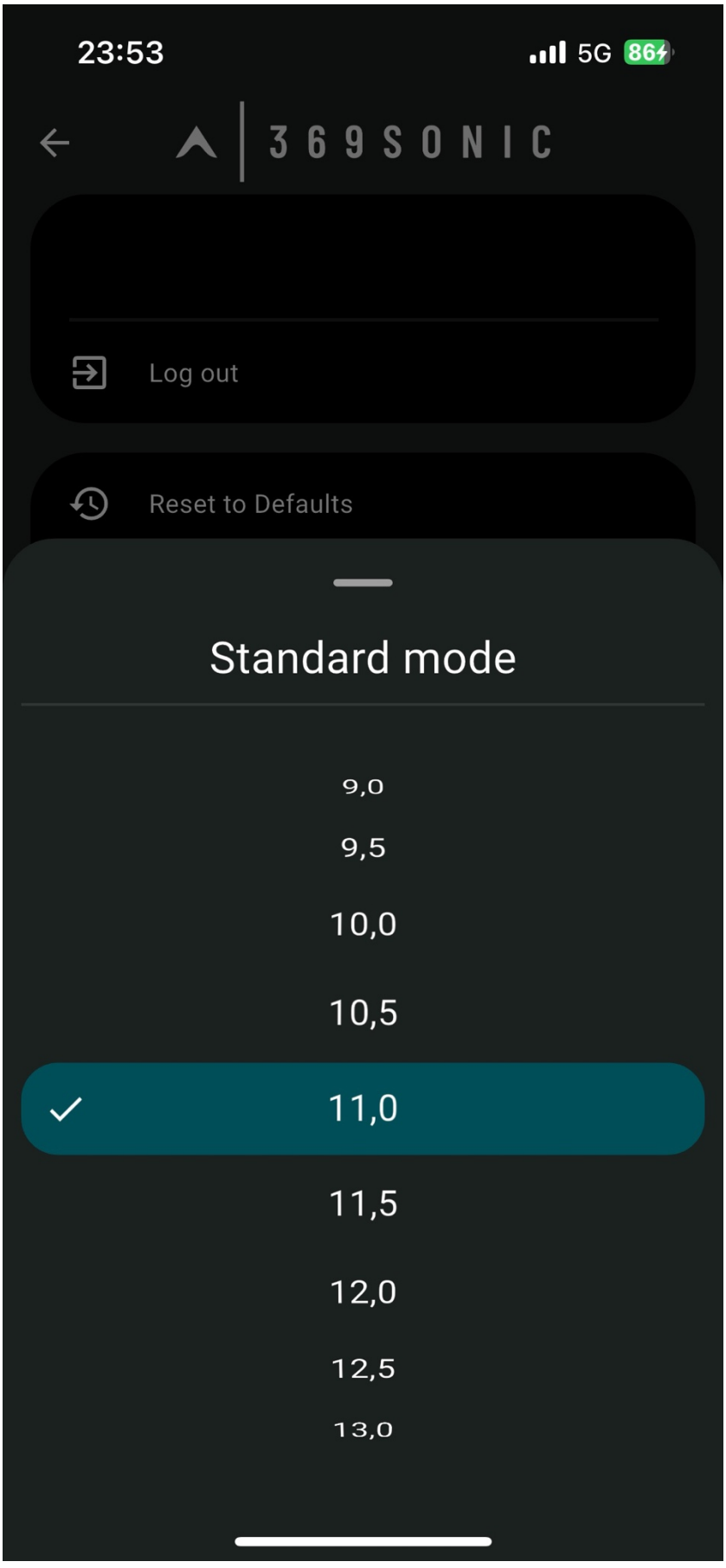


Example of Filling in the Temperature Shift Table

This table serves only as an example of the correct way to fill in temperature shifts.

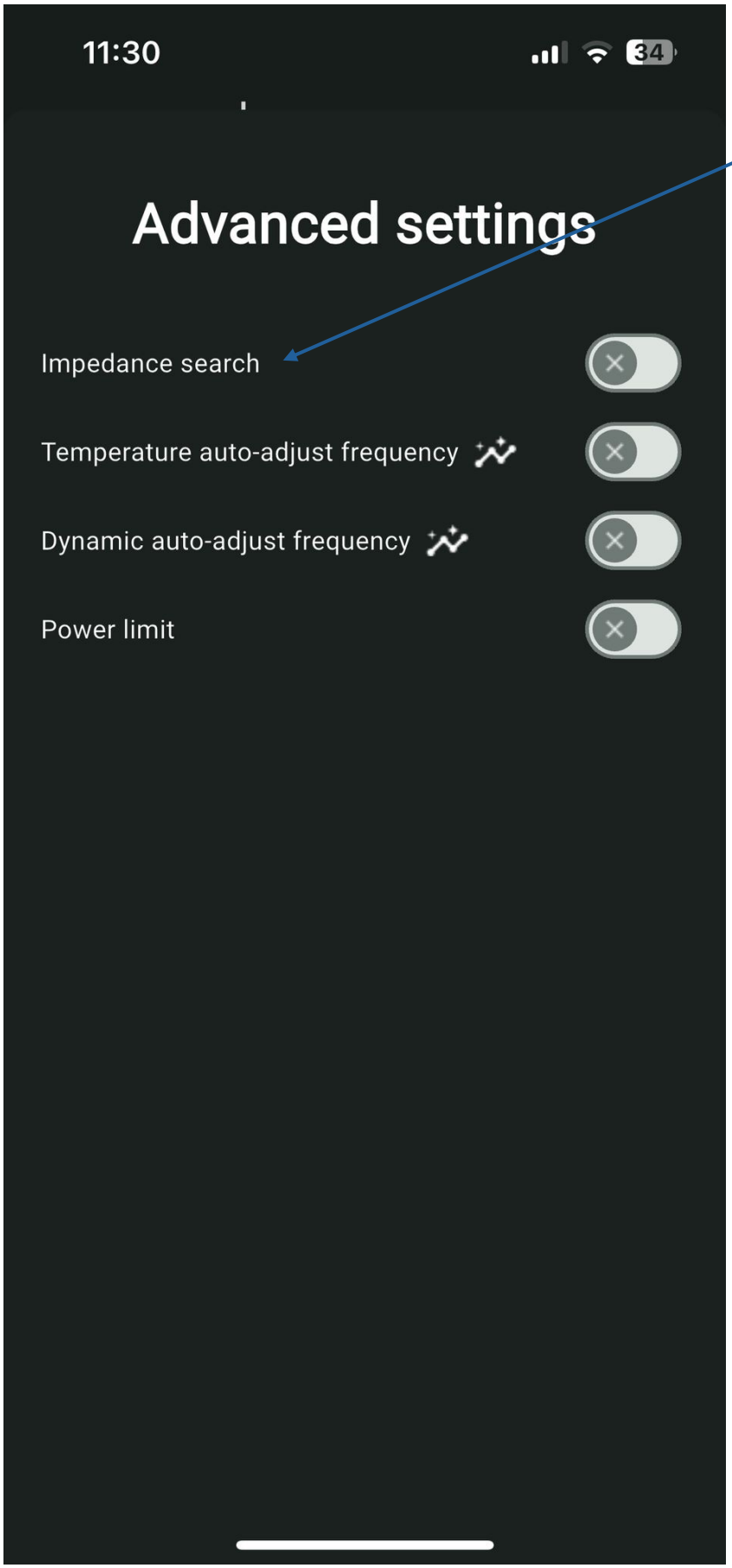
- The temperature must start at **0°C**, and each value should transition smoothly to the next.
- Temperature shifts relevant to your device end at **60°C**, but the table must be completed beyond this limit to allow the settings to be saved.
- Each device requires **individual temperature shift settings**, as they may vary.
- The values in this table may not match your specific device, so it is necessary to determine the temperature shifts based on **your own observations**.

STANDARD MODE / POWER MODE



Clicking "Set" in Standard Mode allows you to adjust the voltage level, which directly affects performance.

- If **Power Mode** is activated in the **Dashboard**, you will also have the option to set the power for this mode.
- Ideally, it is recommended to set a **higher voltage (between 9–12V)**, as higher voltage reduces current in the device, thereby limiting heat buildup.
- The voltage level is adjusted **individually**. It is important to choose a level that meets your cutting performance requirements while **not reaching the maximum power limit**.
- You should always maintain some reserve capacity for potential power increases caused by blade pressure on the material, as increased load leads to higher power consumption.
- These conditions also apply when using **Power Mode**.
- The **maximum allowable voltage is 15V**.

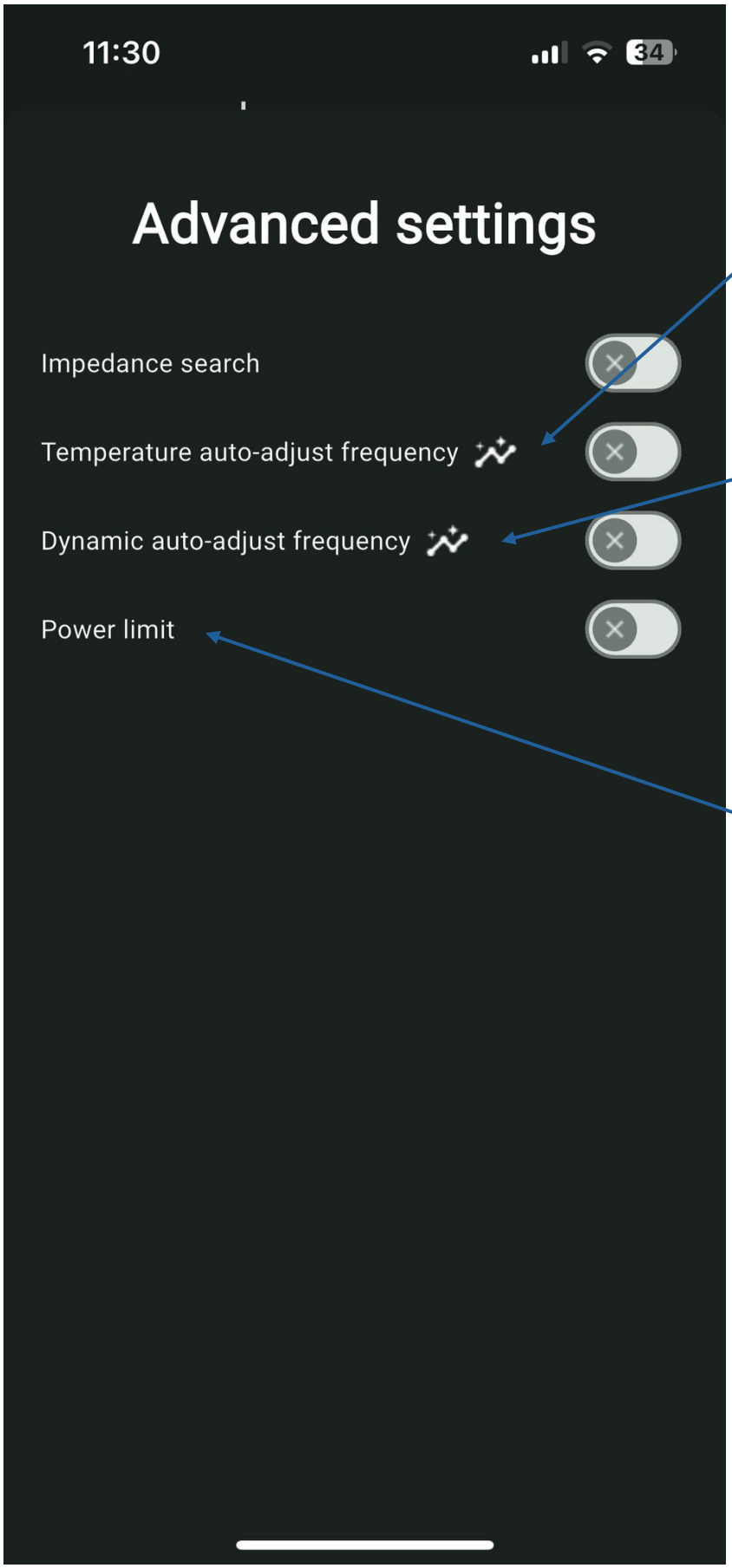


Impedance search

This switch allows you to toggle between two methods of finding the resonant frequency.

If the Impedance switch is **turned off**, the dynamic tuning will use our special algorithm designed for ultrasonic cutters to locate the resonant frequency.

If the Impedance switch is **turned on**, the algorithm will instead search for the point of lowest impedance to determine the resonant frequency. This setting is recommended only for ultrasonic knives. With ultrasonic knives, due to the higher number of resonances in close proximity, the point of lowest impedance may not correspond to the point where the knife actually cuts effectively.
In such cases, it is necessary to adjust the value of the resonance offset (see the relevant section in the manual pg. 16).



Temperature Auto-Adjust Frequency – Automatically adjusts the frequency based on temperature changes according to the values set in **Temperature Shifts**.

Dynamic Auto-Adjust – Continuously fine-tunes the frequency during cutting, **regardless of temperature**.

If you check this option, it will no longer be possible to manually select the frequency from the main menu.

Power Limit
Activating this feature reduces power if it approaches the maximum allowed threshold.

This helps prevent the device from shutting down due to exceeding the maximum power limit during short performance peaks, such as when applying force while cutting.