



**Freedrum**

**Freedrum User Manual**

<https://www.freedrum.rocks/setup>

# Getting started with your new Freedrum.

## 1. Download the Freedrum app.

The Freedrum application is available for iOS and Android devices. This application will help you with the setup of your new Freedrum sensors. You should download this application to configure your sensors before use.

Follow the instructions within the application to setup your Freedrum sensors correctly.

Links (placeholders, not live):

Get the Freedrum app for iOS

Get the Freedrum app for Android

## 2. Read the safety information.

1. Do not expose your Freedrum sensors to liquid, moisture, humidity, or rain.
2. The Freedrum sensors are not waterproof.
3. Do not tamper with or abuse the Freedrum sensors. For example, without limitation, do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects into the Freedrum sensors.
4. Do not use abrasive cleaners to clean your Freedrum sensors.
5. Do not expose your Freedrum sensors to extremely high or low temperatures.
6. Do not leave your Freedrum sensors in direct sunlight for an extended period of time.
7. Do not leave your Freedrum sensors near open flames such as cooking burners.



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8. Do not dispose of your Freedrum sensors in a fire. The batteries could explode.
9. Do not bring your Freedrum sensors into contact with any sharp objects. This can cause scratches and damage.
10. Do not insert anything into your Freedrum sensors unless otherwise specified in the user manual. This may damage the internal components.
11. Do not attempt to disassemble your Freedrum sensor, it does not contain serviceable components.
12. Freedrum has an operating temperature of between 0°C and 35°C.
13. Avoid leaving Freedrum in a parked car due the high temperatures that may occur.

### 3. Attaching the Freedrum sensors.

The Freedrum sensors can be placed on the provided drumsticks using the provided drumstick straps as shown in the diagram. The Freedrum sensors can also be attached to your feet using the provided foot straps as shown in the diagram.

### 4. Turn Freedrum on.

You may turn each Freedrum sensor on by pressing shortly on the large square button. A pulsating light blue light will appear to indicate that the sensor is turned on. You can turn Freedrum off by holding the button for 2 seconds. The sensor LED will begin to fade and blink to indicate that it will turn off.

### 5. Pair Freedrum with your smartphone.

Freedrum will blink blue to indicate the Bluetooth is not connected yet. Once Freedrum is connected via Bluetooth to a device, the light will shine without blinking. Follow the instructions in the application for pairing each Freedrum device. The Freedrum sensors can be paired with iOS and Android devices. The Freedrum application can be downloaded using the links below (placeholders, not live):

Get the Freedrum app for iOS

Get the Freedrum app for Android

### 6. Calibrating Freedrum.



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The Freedrum sensors are calibrated by holding the sensors so that they are pointing in front of you and pressing the square button on the sensors as shown in the image. The Freedrum virtual drum kit is created in the air using angles. Every time you use Freedrum or change seating position, you must press the square button on the sensors to reposition the drum kit in front of you. Watch this tutorial video for best playing practices: (placeholder link).

### **7. Keep the sensors flat.**

In order for Freedrum to hit the correct drums and cymbals, the Freedrum sensors need to be kept flat, facing towards you. This means that you should not allow the stick to rotate in your hands while playing. If you allow for the sensor to rotate, it will not be able to detect the hits correctly. Watch this tutorial video for best playing practices: (placeholder link).

### **8. Be gentle.**

Freedrum is designed for playing in the air. Due to the limitations of the internal sensors, you should avoid playing the Freedrum sensors with excessive force. Playing Freedrum with excessive force will cause the incorrect drums to be played. If you notice that the wrong drums are being played, hold the Freedrum sensors still for 1 second and try playing with less force. Watch this tutorial video for best playing practices: (placeholder link).

### **Standby mode:**

When the Freedrum sensor is still, it will enter into standby mode. The current battery level will be indicated by a pulsating LED (see below for colour reference). If the sensor is in standby mode for a long period of time, it will turn off automatically to save power.

### **LED colours and patterns:**

Blinking blue: Not connected

Solid blue: Connected (2 seconds)

Slow pulse green: Standby and battery level is between 100%-31%. Time of pulse is 2 seconds.



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Medium pulse yellow: Standby and battery level is between 30%-11%. Time of pulse is 1 second.

Fast pulse red: Battery level is between 10%-1% (consistent state when sensor is on). Time of pulse is 0.5 seconds

When the battery is low (between 10%-1%) then it should always fast pulse red. User must charge sensor.

The sensor will change colour gradually during use. The colour changes depending on the angle of the sensor.

### **FCC Regulatory Statements:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.



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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **ISED Regulatory Statements:**

This device complies with Industry Canada's licence-exempt RSSs. 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.

CAN ICES-3 (B)/NMB-3(B) – This Class B Digital Apparatus Complies with Canadian ICES-003.

Cet Appareil numérique de la classe (B) est conforme à la norme NMB-003 du Canada.