

Rapsodo®

HITTING 2.0

USER MANUAL

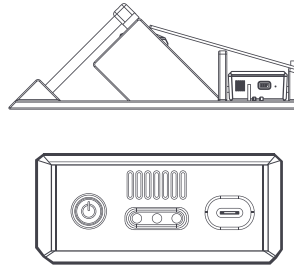
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WHAT'S INSIDE THE BOX



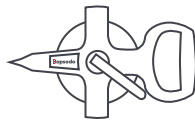
1. Monitor



2. Protective Tank & RCE



3. USB Cables & Charger



4. Measuring Tape



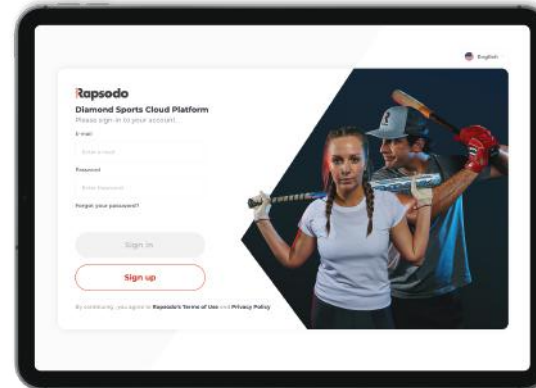
5. Monitor Clip



6. Protective Cases

RAPSODO CLOUD + DIAMOND APP

1. Create a coach account and player profiles at cloud.rapsodo.com. Log in Credentials will be the same for **Cloud & Diamond App**
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2. The **Rapsodo Diamond App** must be downloaded in order to use **HITTING 2.0**
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3. Go to the Apple App Store and search **Rapsodo Diamond** to download



Download App



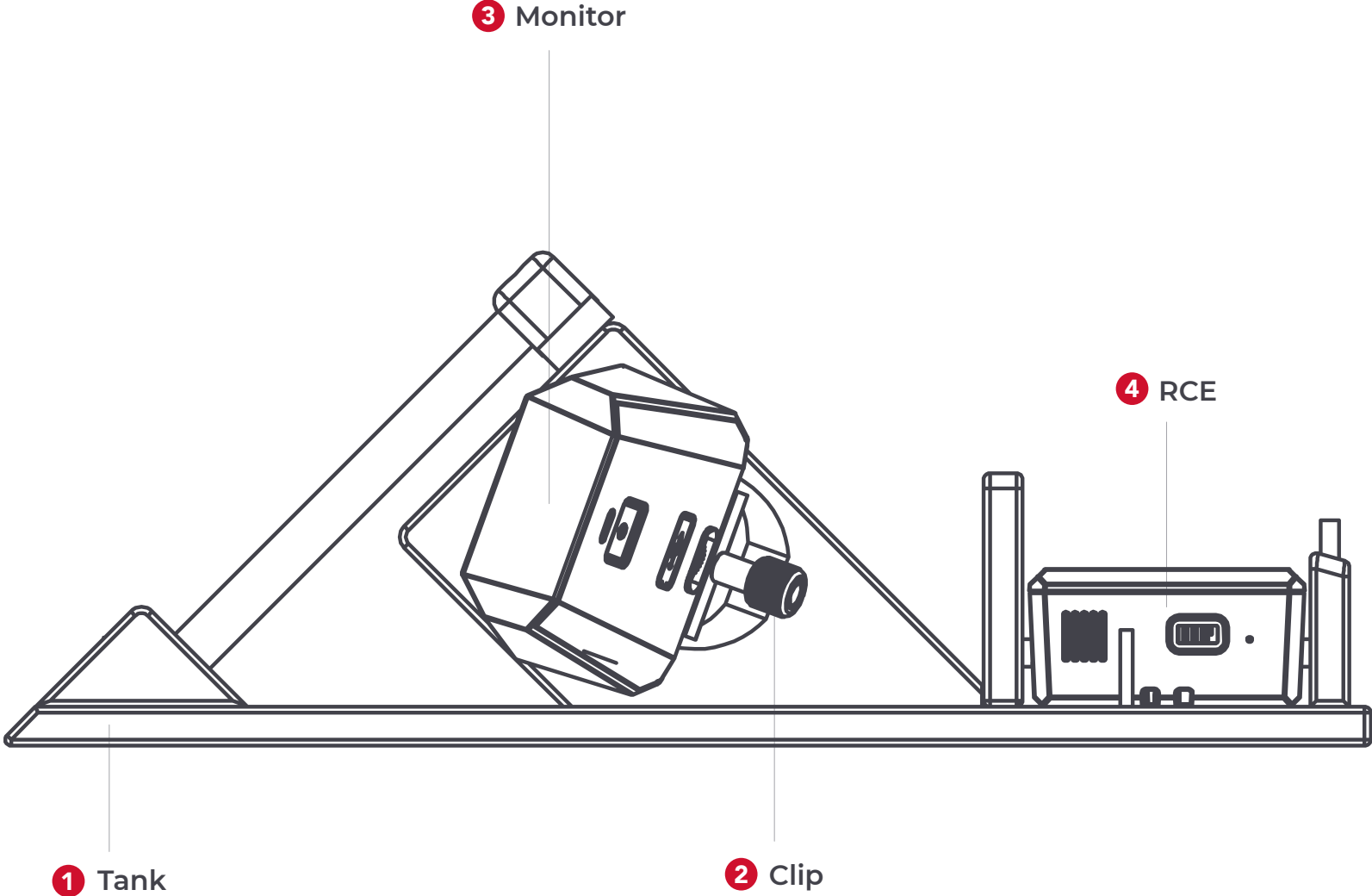
App Requirements

- Latest version of iOS
- iPad Air 2 or newer

Membership Requirements

- Team membership required to collect and store all data

PRODUCT OVERVIEW



OPERATING THE MONITOR

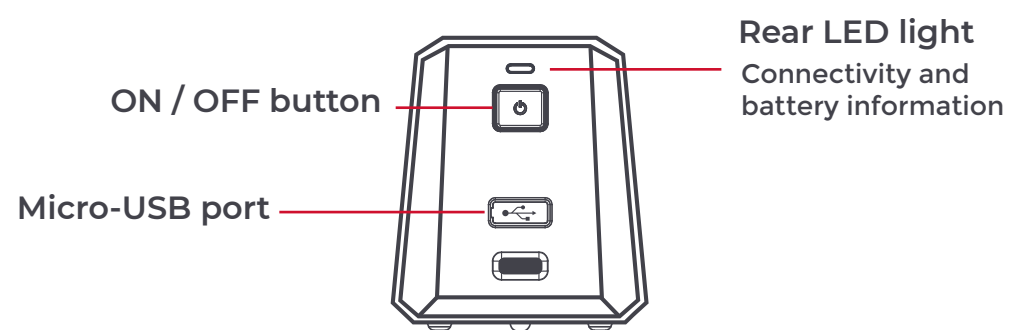
Turning the Monitor ON

- To turn the monitor on, press the power button.
- The front LED display will show **RED** indicating the monitor is on but not ready to measure.
- The rear LED will show **RED** when ready to connect.

Turning the Monitor OFF

- Press the power button.

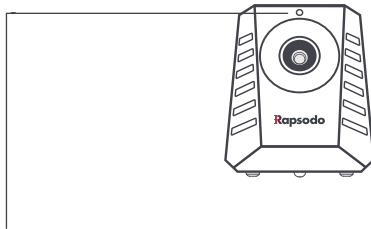
Front LED light
Play information



UNDERSTANDING THE MONITOR LED DISPLAYS

Front LED Display

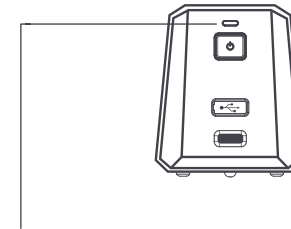
The front LED display provides information on the monitor status, and will give the “**GREEN LIGHT**” to hit when the device is ready to measure.



- **RED LIGHT** “ NOT READY ”
Monitor is switched on, but not ready to measure.
- **GREEN LIGHT** “ PITCH ”
Monitor is ready for hitting. When appearing after blue light just after a hit, data is ready to be viewed on app, and ready for next hit.
- **BLUE LIGHT** “ PROCESSING ”
Monitor is processing data after a valid hit. Wait for the green light to appear which should take only a few seconds.

Rear LED Display

The rear LED display provides information on connectivity and battery. This display will be especially important when pairing the app with the monitor.



- **RED LIGHT**
Not connected to RCE, waiting for USB sync.
- **GREEN LIGHT**
Successfully connected to RCE through USB.
- ☀️ **RED FLASHING LIGHT**
Warning for low battery, please recharge monitor.
- **AMBER LIGHT**
Switched off, and charging.
- **OFF**
If USB is plugged into a charging device or PC, it means the battery is fully charged.

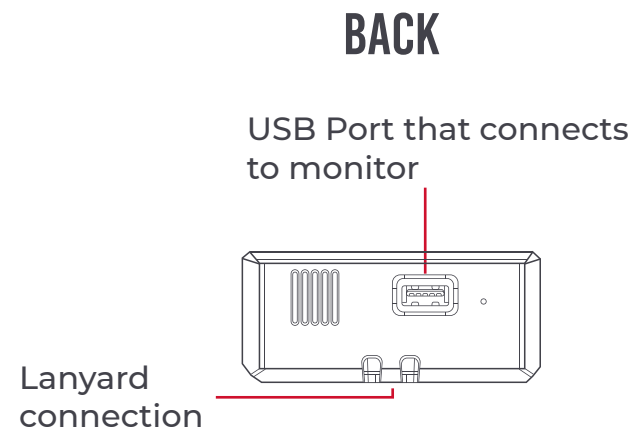
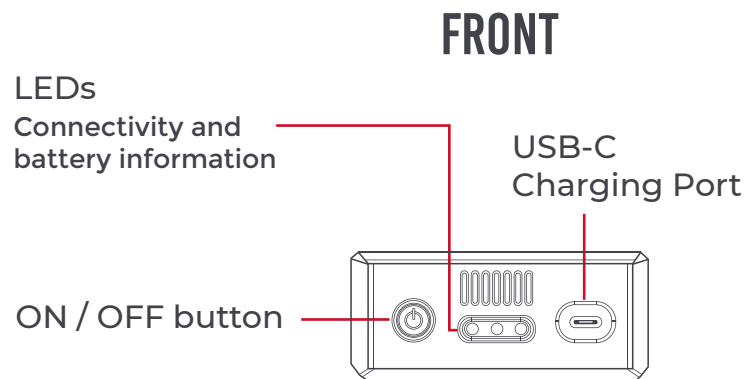
OPERATING THE RAPSODO COMPUTING ENGINE (RCE)

Turning the RCE ON

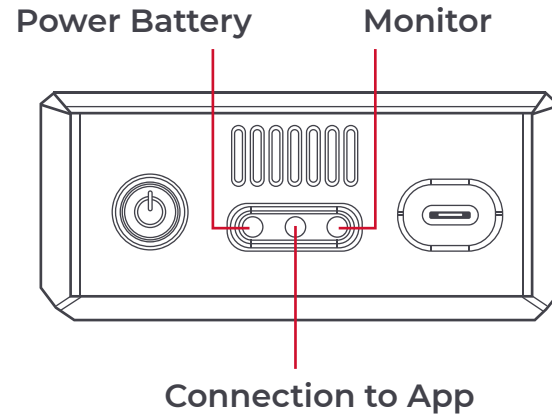
- To turn the RCE on, press the power button.
- After 10-15 seconds the power LED will turn on and the RCE will be ready to connect to the monitor.









Turning the RCE OFF

- Press the power button.
- It will take 10-15 seconds for the RCE to turn off.



UNDERSTANDING THE RCE LED DISPLAYS

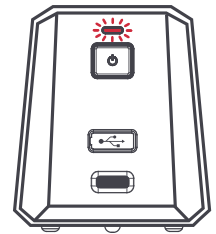
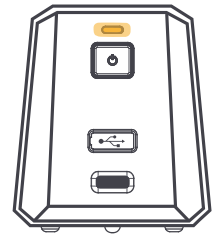


-  RCE and monitor connected.
-  RCE and monitor connected to application, needs calibrated or on 'Pause Mode'.
-  Ready to record data.
-  Data processing.
-  RCE switched off and charging.
-  Warning for low battery, please recharge monitor.
-  RCE turned on, not connected to app and monitor.
-  RCE turned on, connected to app but not the monitor.

CHARGING THE DEVICES

Charging the Monitor

- The battery can be charged by connecting the included Micro-USB cable into the port on the rear monitor panel.
- The rear LED will show **AMBER** indicating the monitor is charging.
- The rear LED will switch off indicating the device has been sufficiently charged.
- The LED indication will **FLASH RED** indicating the battery charge is getting low and the battery should be charged.



Charging the RCE

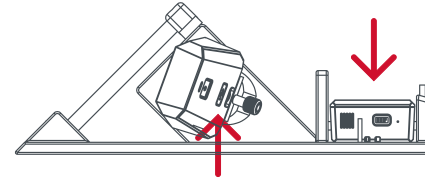
- The battery can be charged by connecting the included USB-C cable to the USB-C charging port. (located on the side of the power button)
- The power LED will show **AMBER** indicating the RCE is charging.
- The power LED will switch off indicating the device has been sufficiently charged.
- The LED indication will **FLASH RED** indicating the battery charge is getting low and the battery should be charged.



NOTE: The monitor and RCE must be charged separately to ensure a complete charge for each device.

PAIRING THE RCE AND DIAMOND APP

1. Connect the RCE to the monitor via USB to Micro-USB.



-
2. Press the power button on the monitor and RCE.



-
3. Connect to Rapsodo Wi-Fi in iPad settings.



-
4. Open **Rapsodo Diamond App** and press the Wi-Fi Connection button.

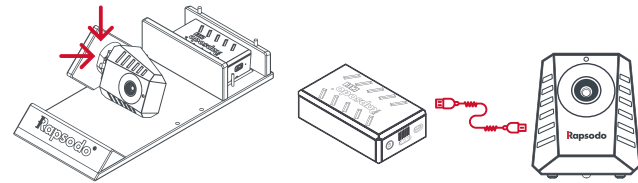


DEVICE PLACEMENT AND SETUP

NOTE: Rapsodo HITTING 2.0 operates in a tank. Correct positioning is important to get accurate results.

1. Internal Tank Set-Up

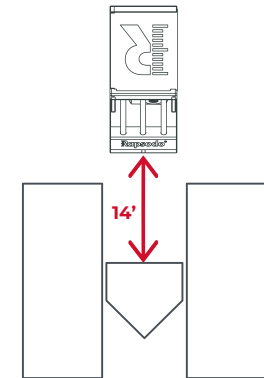
- 1.1. Attach monitor to mount plate.
- 1.2. Place RCE in housing.
- 1.3. Connect USB from monitor to RCE.



2. Tank Positioning

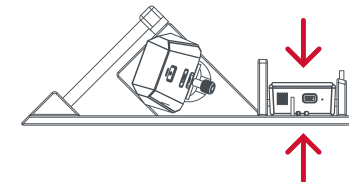
- 2.1 Rapsodo HITTING 2.0 should be placed 14' from the front of home plate and the camera opening should face the batter.
- 2.2 The tank should be placed on an even surface and **SHOULD NOT** be used in the rain or wet conditions.

⚠️ Rapsodo HITTING 2.0 should only be used at the designated distance and on a flat surface. Improper placement may cause injury.



3. Calibration

- 3.1. Align monitor angles with help of the application.
- 3.2. Use azimuth view and tape measure to position the tank directly in the center of home plate.

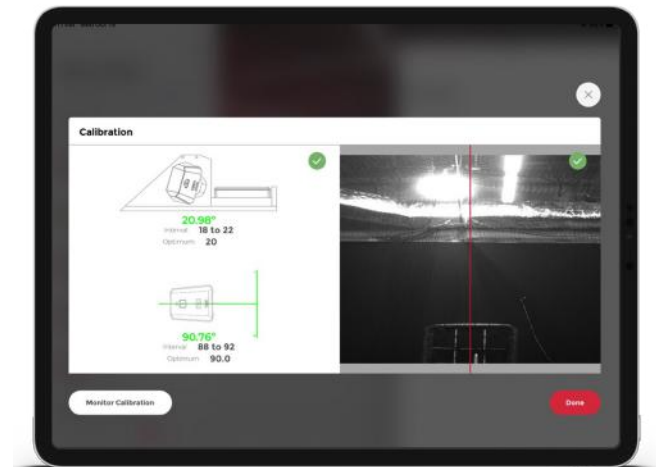


CALIBRATION

1. Select recalibrate from devices tab in bottom right-hand corner.
-

2. Adjust monitor angles to 20 degrees and 90 degrees.
-

3. To calibrate the monitor have a person stand on the center of home plate. The red line in the azimuth view should go directly down the middle of home plate.



TROUBLESHOOTING TABLE

App shows low
monitor battery

Charge RCE and monitor separately.

Results seem
inaccurate

Make sure the tank is placed at 14' and you have correctly calibrated the monitor.

Can't connect
to app

Disconnect and reconnect to Wi-Fi and **Diamond App**, make sure monitor is green.

Data not syncing
to cloud

Disconnect from RCE Wi-Fi and connect to an Internet-based Wi-Fi. Press sync button in top right corner and leave app open. For more detailed syncing progress, navigate to Settings > Upload Progress within Diamond App

SPECIFICATIONS



Exit Velocity

Exit Velocity is the speed of the ball as it comes off the bat after contact.



Direction

The direction, plotted on a diamond, that an in-play ball takes in flight.



Spin Direction

The tilt or angle of the ball from the contact point, measured in degrees, created by the Magnus effect. The Magnus Effect is created by the air pressure surrounding the spinning ball on its path from the bat.



Launch Angle

Launch Angle is the vertical angle at which the ball leaves the bat after contact.



Spin Rate

The rate at which the ball spins during flight after contact, measured in rotations per minute (RPM).



3D Ball Flight

Instantly track the ball off the bat to see the actual ball flight of the projected hit.

DIAMOND APP

Requirements:

- Rapsodo Diamond App.
- Rapsodo Team Membership.
- iPads: iPad Pro 2nd Generation or newer.
- Most recent iOS software.



After adding your player roster in **Diamond App** or cloud.rapsodo.com (See Page 2), continue with the following.

Starting a Session:

- See Pairing the RCE & Diamond App (Page 9) and Calibration (Page 11) section of user manual.
- Select a player and session to begin.
- Once the main play screen loads, you can take a swing, and data will start recording.

Session Types:

Hitting:

- **Certified Assessment:** 15-hitting scripted session to analyze and evaluate each athlete. Must be performed in front toss or live setting. A hitter will receive an overall score based on exit velocity, launch angle and consistency.

DIAMOND APP

- Tee: Stationary setting where pitch speed is 0 mph.
- Soft Toss: Front toss setting where pitch speed is under 35 mph.
- Batting Practice: Multi-option function where you can switch from Tee, Soft-toss, and Live within the same session.
- Pitching Machine: Used only in Live/BP mode where incoming pitch speed is over 35 MPH. Can be off machine or coach pitch.
- Live: Scrimmages or game like environment. Track and compare how a hitter performs when facing live pitchers.
- Game Mode: Interactive, video-game like environment, where players can practice specific challenges like target practice and situational hitting.

Views:

There are 3 different screens to view when using **Diamond App**.

- Data screen
- Video Screen
- Field View

NOTE: Video is automatically on when beginning a session, if you would like to turn videos off, select the red recording button at the top middle of the screen and it will disappear, this means videos are now off.

DIAMOND APP

Collecting Data:

- Once a ball has been batted, a processing wheel should appear, 4-8 seconds later the data should appear on the screen.
- If the processing wheel does not appear, please make sure you are properly lined up with the unit and the correct session type is being used.
- If the processing wheel appears but no data is recorded, not enough clear readings were captured. Continue your session as normal. If no readings continue to occur, please recalibrate. If they continue to occur, please reach out to customer support.
- If the processing wheel is showing even when a ball is not in play, please make sure of the following:
 - Other lanes with players are at least 8 ft apart.
 - No fans or HVAC units are turned on and blowing around the unit.
 - No other players are practicing behind the player recording data.

Completing a Session:

- Finish session in bottom right-hand corner
- Connect to Internet (Wi-Fi)
- Open **Rapsodo Diamond App** go to Settings > Upload Progress > and select the arrows in the top left corner.
- Arrows will start spinning, leave app open and awake until all files have been uploaded in the progress bar.
- Go to cloud.rapsodo.com, those sessions will now appear under the player. If sessions are not visible, please allow your iPad more time to sync the data.



GAME MODE

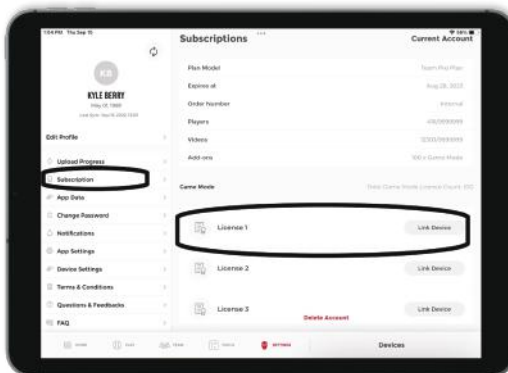
Requirements:

- HITTING 2.0 unit
- Rapsodo Diamond App
- Rapsodo Game Mode App
- Rapsodo Team Membership
- Recommended iPads: iPad Pro 2nd Generation or newer
- Minimum iPads: iPad Pro, iPad 7th generation, iPad 8th generation, iPad 9th generation



Getting Started - Linking Unit to Game Mode License

1. Turn on **HITTING 2.0** but do not connect to Rapsodo Wi-Fi.
2. While connected to Internet (Wi-Fi), open **Rapsodo Diamond App**.
3. Go to **Settings > Subscription > License > Link Device**



4. Once Link Device is selected, your RCE will be in the available devices. Select that device. The link device should now change to unlink and the RCE number will appear to the left.

NOTE: You do not have to repeat this step once your RCE is linked.

GAME MODE

How to connect to Game Mode:

1. Connect to Rapsodo Wi-Fi
2. Open **Rapsodo Diamond App** > Play > Refresh
3. Once sessions appear, scroll and select Game Mode. Screen should switch to all blue.
4. Do not exit out of **Diamond App** but return to iPad home screen and open **Rapsodo Game Mode**.
5. Once Game Mode is open, pull up from the bottom middle of your iPad screen to show the toolbar.
6. Drag and drop the **Rapsodo Diamond App** into the **Rapsodo Game Mode App**.



7. Once the **Rapsodo Diamond App** is dragged and dropped into Game Mode, ball selection should appear to the left. Select which ball type you are using.
8. Select which Game Mode version you would like to play.
9. Tap the Add Player and type the player's name you want to compete with, once all players and settings have been decided, hit Play Ball!

GENERAL INFORMATION

Interference

Rapsodo HITTING 2.0 is an extremely sensitive and accurate data-tracking monitor. While Rapsodo HITTING 2.0 hardware has been engineered to achieve accuracy within a regular baseball/softball environment; many everyday items like electrical appliances, computers, cell phones, bulbs, etc. may produce electrical or optical interference that can generate false readings. You need to be aware of these kinds of products in the environment where Rapsodo HITTING 2.0 is used, as they may cause interferences.

Use In Well-Lit Environments

Rapsodo HITTING 2.0 should be used in well lit locations. Performance may vary in certain lighting conditions, particularly in low light conditions, which may result in incorrect measurements.

Do not use Rapsodo HITTING 2.0 in Wet Conditions

Rapsodo HITTING 2.0 is not water resistant. Do NOT expose the device to water as it may get damaged.

App Updates

Rapsodo will periodically update and improve the features of the Rapsodo Diamond App. It is recommended that users regularly download the latest version to make for the highest monitor performance.

Return Policy and Warranty

Rapsodo provides a (1) one-year limited warranty for manufacturing defects. Under conditions of the warranty agreement, purchasers will be entitled to repair or replacement for defective Rapsodo products. This warranty begins from the date of initial purchase. Rapsodo may also choose to refund the purchase price of the product to the purchaser, at its sole discretion. Warranty detailed information and return policy can be found online at www.rapsodo.com/pages/return-policy.

Regulatory notice: Waste electrical and electronic equipment

The symbol on the product or its packaging signifies that this product has to be disposed separately from ordinary household wastes at its end of life. Please kindly be aware that this is your responsibility to dispose electronic equipment at recycling centres in order to help conserve natural resources. Each country in the European Union should have its collection centres for electrical and electronic equipment recycling. For information about your recycling drop off point, please contact your local electrical and electronic equipment waste management authority. Do not dispose of the Rapsodo device with household waste. Batteries are not to be disposed of in municipal waste stream and require separate collection. Disposal of the packaging and your Rapsodo should be done in accordance with local regulations.

SUPPORT/CONTACT

If you have any questions or need any assistance, please reach out to your dedicated account manager, or contact us at:

 support@rapsodo.com

 1.844.772.7763

 www.rapsodo.com