

Rapsodo®

BASEBALL HITTING

USER MANUAL

YOUR RAPSOODO BASEBALL KIT

WHAT IS IN THE PACKAGE?



DOWNLOAD THE RAPSOODO BASEBALL APP

Download on the App Store

IOS REQUIREMENTS

iPad Air, Air 2, Pro

IOS 8.0 or later

We are always improving coverage of new devices, please refer to our website for updated list of compatible devices.

WINDOWS 10 RECOMMENDED

Download from Microsoft Store for Windows 10/7

THE FREE RAPSOODO BASEBALL APP MUST BE DOWNLOADED IN ORDER TO USE THE DATA TRACKING MONITOR.

1. From your mobile device, find the 'App Store' icon and click on it.
2. Enter "Rapsodo Baseball Hitting" in the Search function at the bottom left of the screen.
3. The App Store will display the app icon, and feature a "Free" button next to it.
4. Click on the "Free" button to download, and confirm by tapping on "Install App".
5. A new icon depicting the app will be displayed on your device's desktop.
6. Once the download is complete, follow the connection steps to sync your app with your device.

FOR WINDOWS 10 / 8 / 7, DOWNLOAD THE APPLICATION FROM WWW.RAPSOODO.COM/BASEBALL

SETTING UP THE MONITOR AND THE RCE ON THE FIELD

Rapsodo Baseball operates on a tripod that is provided in the product package. The technology is based on camera and radar. As correct positioning is important to get the quality of results, it is recommended to carefully follow the set up instructions in the set up instructions.

SETTING UP THE MONITOR AT FRONT POSITION		
I. INSTALLING	II. ATTACHING	III. POSITION - CALIBRATION
<p>14ft</p>	<p>We recommend you to attach the monitor before you place the protective cover on the ground. To do this attach the mount plate to the monitor first, and protective cover in the monitor to the receiving housing inside the protective cover. Firmly tighten the mount screw.</p> <p>Place the RCE to its housing and connect the USB cable to the monitor. Turn both devices ON.</p>	<p>1. Screw the rotating head firmly to secure the device in its position.</p> <p>2. Tap "Next" button on the app: the screen will show an image of what the monitor sees. This image will refresh periodically. The app also displays a center line on the view. At any time, you can use this center line to ensure that the monitor is properly facing the pitcher.</p> <p>During and after this calibration step, the monitor and Rapsodo Baseball app will continue to monitor the roll and tilt angles. If these angles go beyond the allowed margins, the app will display a notification prompting you to restart the calibration procedure.</p>
<p>The shield shall be installed 14 ft from the home plate and the camera opening should face the hitter. The protective cover should be on same axis as the home plate and the pitcher's mound.</p> <p>The protective cover should be placed on an even surface and should not be used on a wet or excessively dusty surfaces.</p> <p>⚠ The protective cover shall only be used at designated distance and on a flat surface as described in this user manual. The protective cover designed to reflect off balls away from hitter and catcher. Improper placement of protective cover may cause balls to ricochet back towards to hitter or catcher and may cause injury.</p>		

YOU'RE READY TO TRACK THE HITS.

GETTING TO KNOW RAPSOODO BASEBALL

The Rapsodo Baseball monitor features 2 LED displays, one at the front and one at the rear, which provide information during each step of the set up process and in the data tracking mode. The tables hereafter provide an overview of each status, and will be key throughout the "getting started" instructions.



UNDERSTANDING THE MONITOR & LED DISPLAYS

CHARGING THE MONITOR

- Charge the monitor's battery by plugging in the provided USB cable (or any standard USB charger) into the port on the rear monitor panel. The rear LED will become an amber color, confirming that the device is charging.
- Once the battery level is sufficient, the rear LED will turn off.
- **Note for future users:** if the rear LED light is flashing red, the battery level is low and requires charging.
- Please refer to "Understanding LED messages" section for further details.
- When used with RCE, monitor doesn't need to be removed from protective cover in Front Hitting Position, RCE will charge the monitor. Make sure RCE is fully charged before use.

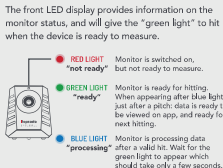
TURNING ON THE RAPSOODO MONITOR

- To turn the monitor on, press the ON/OFF button (located on its rear side) for 2 seconds.
- The front LED display will turn RED, which means that the monitor is switched on, but not ready to measure yet.
- The rear LED will also become active (its color depends on the state of the device. Please refer to "Understanding LED messages" section for details).

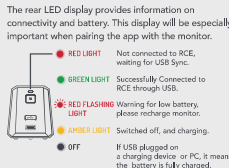
TURNING OFF YOUR RAPSOODO BASEBALL

- When the training session has concluded, just turn the Rapsodo Baseball monitor off by simply pressing on the ON/OFF button (located on its rear side), and dismantle the monitor from the tripod.
- It is recommended to store the monitor and the tripod in the bags provided with the product package.

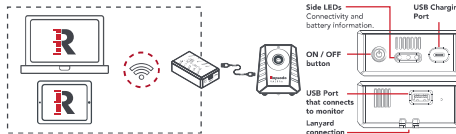
FRONT LED DISPLAY:



REAR LED DISPLAY:



GETTING TO KNOW RAPSOODO COMPUTE ENGINE (RCE)



UNDERSTANDING THE RCE & LED DISPLAYS

PURPOSE OF RCE

- Rapsodo Compute Engine works with the Baseball Monitor. It communicates with the monitor via USB and analyzes the data captured by the monitor.
- Rapsodo Compute Engine communicates with the PC or IOS device via WiFi. See the PAIR THE RCE AND THE APP section for how you can connect to RCE to your PC or tablet.
- The LEDs on the RCE mimics the monitor. Please see below for further details. You can always rely on monitor's LED for status of the combined system.

CHARGING THE RCE

- Charge the RCE's battery by plugging in the provided USB C Type cable to the port on the side of the Power Button (Type C USB connector). The Power LED will become amber color, confirming that the RCE is charging.
- Once the battery level is sufficient, the Power LED will turn off.
- **Note for future users:** if the Power LED is flashing red, the battery level is low and requires charging.

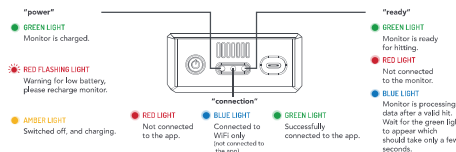
TURNING ON THE RCE

- To turn RCE on, press the power button for 2 seconds.
- The Power LED will turn on and RCE will be ready to connect to Baseball Monitor.

TURNING OFF THE RCE

- When training session is completed, RCE can be turned off by simply pressing Power Button. It will take a few seconds for RCE to turn off. (After going through a proper shutdown sequence)

SIDE LEDs DISPLAY:



STARTING TO MEASURE HITS

The monitor and the RCE should be switched on and paired to the app. The front LED display should show a GREEN light on the monitor and all LEDs should be GREEN for the RCE.

As a reminder, if the monitor shows a RED light, it means the device is not connected.

ANYTIME THE MONITOR FRONT LED IS GREEN, IT MEANS THAT IT IS READY FOR MEASUREMENT, AND YOU CAN HIT.

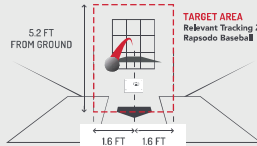
After a hit, the front LED of the monitor turns BLUE to indicate that it is calculating hit data. Once the results are ready, the front LED turns GREEN and results appear automatically on your app dashboard.

NOTE - optimum baseballs condition: The use of synthetic cover baseballs and balls featuring surface blemishes near the seams are not recommended, as they may yield incorrect measurements.

If you have purchased a subscription, you will be able to add players and enable several other features. Please refer to www.rapsodo.com/baseball for further details.

FRONT HITTING MODE:

The monitor captures data only if the hit ball passes through the target zone as shown in the diagram below. If the ball is not passing through the target area, monitor may not measure or measurements may not be optimal.



FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

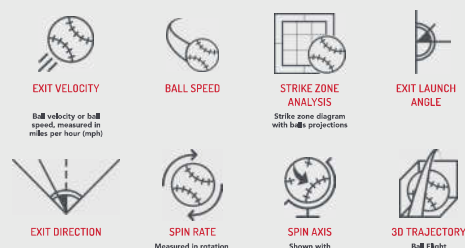
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

WHAT DATA GETS MEASURED



PAIR THE RCE AND THE APP

To operate Rapsodo Baseball, it must be connected to the RCE via USB and RCE must be connected to the Rapsodo Baseball App on a PC or tablet via WiFi. (USB device port on RCE is used for charging). To turn the monitor on, press the ON/OFF button (rear side) for 2 sec. The front LED display will turn RED, which means that the monitor is switched on, but not ready to measure yet. Once RCE is connected to the Rapsodo Baseball application, both RCE and monitor connection LED will turn green.

PAIRING THE RCE WITH WIFI (FOR IOS DEVICES OR PC)

WiFi DIRECT MODE

The WiFi Direct mode does not require an existing WiFi network or router. In this mode, the monitor RCE will appear as a WiFi router and you can attach your tablet or PC to the RCE via WiFi as if it is connecting to a router. This is the default mode for the RCE. Even if you want to connect to WiFi network mode in future uses, you need to set up this mode first to configure the RCE to a known network.

1. Connect to the access point named "RapsodoBaseball_XXXX" in WiFi. The "XXXX" denotes a unique number for your monitor.
- **On your tablet:** Go to Settings → WiFi. You should see "RapsodoBaseball_XXXX". Connect by tapping it in the list.
- **On your PC:** Click on the WiFi signal icon on your computer and select "RapsodoBaseball_XXXX" from the dropdown menu and "Connect". Once the connection is established, go to the Rapsodo Baseball app.

2. Open the app. It will attempt to connect to the RCE. Once the connection is established, a green check mark appears on the WiFi icon and the RCE's connection LED and monitor's rear LED will turn green.

Important Note: Only one tablet or PC can be paired to the RCE at a time. If you want to use another device, you must first disconnect the tablet and/or PC, and follow the same procedure to sync the new device.

GENERAL INFORMATION

INTERFERENCE

Rapsodo Baseball is an extremely sensitive and accurate data tracking monitor. While Rapsodo Baseball has been engineered to enhance accuracy within a single baseball environment, many everyday items like electrical appliances, computers, cell phones, tablets, ... may produce electrical or optical interference that can generate false readings. You need to be aware of these kind of products in the environment where Rapsodo Baseball is used, as they may cause interference. Once interference is detected for interference it is a matter of products in the same direction with no object in motion and see if you get good data results. Please also read the "Technical Communication: Connection Interference Statement".

USE IN WELL-LIT ENVIRONMENTS

Rapsodo Baseball 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 RAPSOODO BASEBALL IN WET CONDITIONS

Your Rapsodo monitor is not water-resistant. DO NOT use the device under rain, water exposure or wet environments, as the product may get damaged.

APP UPDATES

Rapsodo will periodically update and improve the features of the Rapsodo Baseball 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/return.

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 level of the waste likely to be waste (it is your responsibility to dispose electronic equipment at recycling centers in order to help conserve natural resources. Use a local collection centre for electrical and electronic equipment recycling. For information about your recycling effort only, 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

We are happy to help. If you have any questions, or need any assistance, please contact us at:

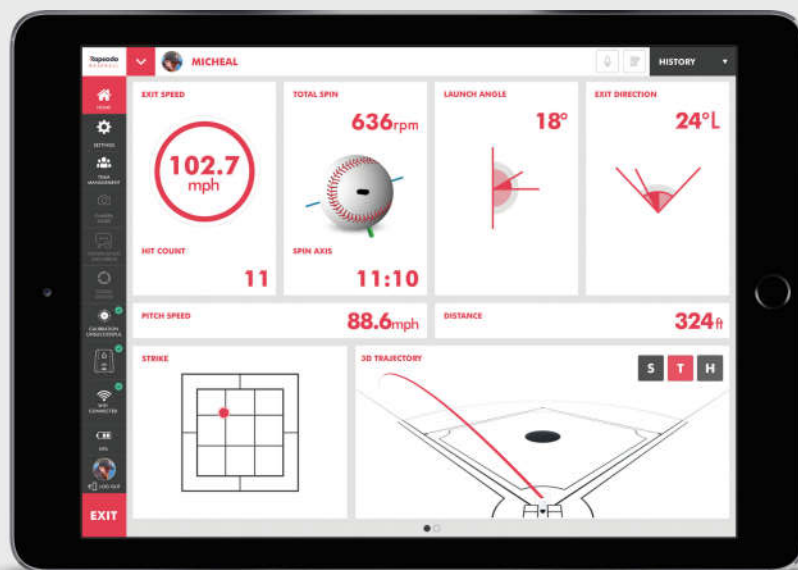
- ✉ info@rapsodo.com
- ☎ Toll Free Number (USA): 844.772.7763
- ★ Rapsodo, 12175 Visionary Way, Suite 113, Fishers, Indiana, USA

Make sure to visit Rapsodo.com for more details and to download the manual about the application screens.

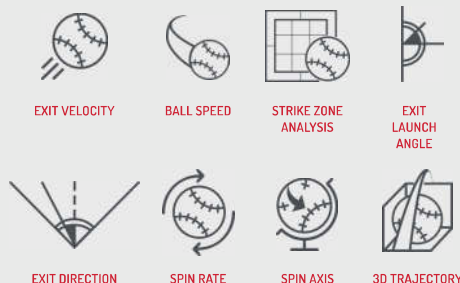
More troubleshooting and assistance can be found on the website: www.rapsodo.com/support

⚠ In some versions of the Protective Cover, there may not be an adjustable head for calibration. In these cases, the protective cover is designed with the correct calibration metrics and no adjustment will be necessary as long as you place it on a flat surface and ensure the camera axis is aligned to home plate and pitcher's mound.

Rapsodo® BASEBALL



ANALYZE. CORRECT. PERFECT.



KNOW YOUR NUMBERS



QUICK START GUIDE

1. DOWNLOAD RAPSONDO BASEBALL APP

Download the latest version of Rapsodo Baseball app to make for the highest monitor performance.



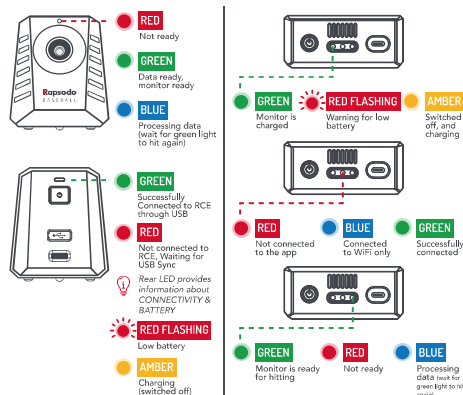
2. CHARGE AND TURN ON THE MONITOR

On the monitor's rear side:
• charge via USB port
• turn on by pressing the Power button

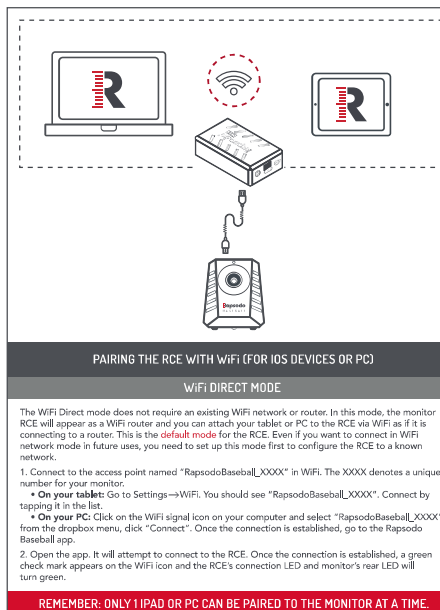
When on:
front LED turns RED, rear LED turns active.
To turn off Rapsodo Baseball, press the Power button again.

3. UNDERSTANDING LED COLOR CODES

Use the opposite charts below for LED codes and to identify Rapsodo Baseball's various operational modes.



4. PAIR THE RCE AND THE APP



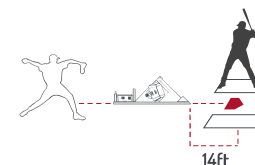
5. SETTING UP AT FRONT POSITION

1. ASSEMBLE

The shield shall be installed 14 ft from the home plate and the camera opening should face the hitter. The protective cover should be on same axis as the home plate and the pitcher's mound.

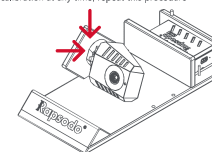
ATTACH THE MONITOR TO MOUNT PLATE

Place the RCE to its housing and connect the USB cable to the monitor. Turn both devices ON.



2. CALIBRATE

- Screw the rotating head firmly to secure the device in this position
- Tap "Next" button on the App
- Keep using the center line on the App's image to ensure the monitor is properly facing the pitcher
- If the App asks for a recalibration at any time, repeat this procedure



7. YOU'RE READY TO TRACK THE HITS

Anytime the monitor's front LED is green, it means that it is ready for measurement. Pitch from the regular distance, facing the monitor. After a pitch, the green light also means that data of the ball you just played are available on the App dashboard.

Use in well lit environments. Be aware of electrical items which may cause interferences. Do not use under rain or wet environments.

FCC Caution.

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.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.