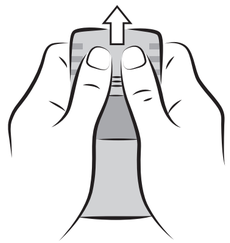
POCKET RADAR™

# SMART COACH™

QUICK START GUIDE

# BATTERY INSERTION AND GETTING STARTED



## INITIAL SETUP

- Remove the battery cover from the back of the Smart Coach radar™. Insert the batteries in the direction indicated by the polarity marks inside the battery compartment and replace the cover.
- Remove the clear plastic sticker that covers the GRAY button and display on the front of the unit and the yellow sticker from the back of the unit.
- We recommend you purchase "NiMH" rechargeable AAA batteries if you plan on using the Smart Coach radar in Constant-On mode.

## INSTANT ON

- The Smart Coach radar will turn itself on and continue measuring ball speeds as long as you HOLD the GRAY button down.
- When the Smart Coach radar picks up a ball in flight, it will display the speed. Release the GRAY button and the speed will display for several seconds. If no ball was measured, the display will show "- - -."
- Do not worry about clearing the display before making a new measurement. Once you begin holding the GRAY button down for a new measurement, the display will be cleared.

## RECALL READINGS

- To recall the last 25 readings, simply TAP the black MODE/RECALL button. Each time the button is tapped, it will display the previously recorded speed, most recent first. A single dash "-" indicates that you have reached the end of the list.

## AUTOMATIC SHUT-OFF

- The Smart Coach radar continues to display the last speed until the button is pushed again or it will automatically turn itself off after several seconds of inactivity.

# SEE APP FOR MORE FEATURES

## DOWNLOAD THE POCKET RADAR COMPANION APP

Pair your device by following the instructions inside the App.

- *Record Videos with Embedded Speed Graphic*
- *Download, Track and Share Speed Data and Videos*
- *Use a Smart-Phone or Tablet as a Remote Speed Display*

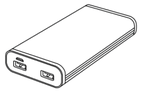
*Download the App:*

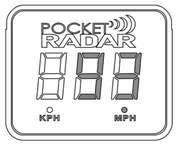
Download on the App Store | Google play

# ALTERNATE POWER OPTIONS

**The Smart Coach radar can be powered via internal batteries or the USB connector.**

Use the Micro-USB connector on the side of the unit to connect to various power sources including USB power packs and phone chargers, or use it with the Pocket Radar Smart Display.

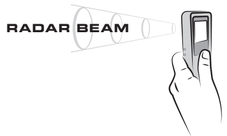





# HOW TO HOLD & AIM

*The Smart Coach Radar Measures From the Back, Like a Camera Phone*

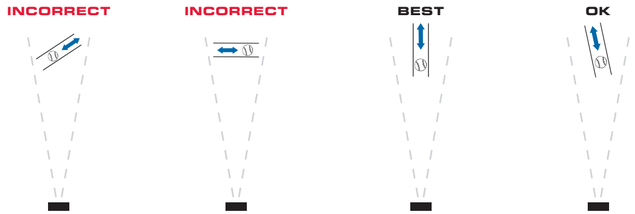
## SIDE VIEW




## VERTICAL IS CRITICAL

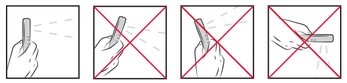
- The Smart Coach radar makes a measurement by sending out very low power radio waves and looking for them to bounce off a moving object. These radio waves are focused in a small cone shaped like a flashlight beam which comes out of the raised square on the back of the Smart Coach radar(the radar lens).
- Hold the Smart Coach radar straight up and down vertically like a camera phone with the radar beam pointing in-line with the path of the ball.
- If you tilt the Smart Coach radar down slightly, the beam may end up pointing into the ground and missing the ball.
- Do not block the radar lens.

## TOP VIEW




## WATCH YOUR ANGLES

- All Doppler speed radar technology measures objects moving in-line with the radar beam, not perpendicular. To get the most accurate readings, make sure the path of motion is within the narrow radar beam cone (about the shape of a focused flashlight beam). Tilting the Smart Coach radar too far up or down may also cause the beam to miss the moving object.



**Important to keep unit straight up-and-down. Do not tilt.**

**Keep the radar lens clear of any objects.**

# KNOW YOUR SMART COACH™

FRONT

BACK

# HOW TO USE THE SMART COACH™

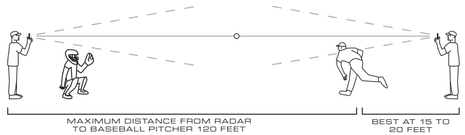
*Advanced Measurement Details*

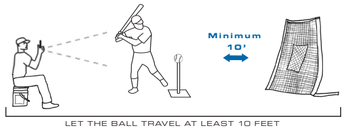
The Smart Coach radar is specifically designed to measure the speed of a ball in flight, and find the fastest speed right out of the hand or right off the bat. As soon as you begin holding down the GRAY button, the radar beam is activated. As long as you HOLD the GRAY button down, the radar will continue to search for the speed of a ball. As soon as the Smart Coach radar picks up the speed of a ball in flight, it will display that speed. In order to capture the fastest speed right out of the hand or right off the bat, it is important to begin to HOLD down the GRAY button sometime before the ball is in flight. Release the GRAY button once the speed is displayed.

## SMART COACH RADAR FOR PITCHING

To accurately measure Pitch Speed, make sure the radar beam lines up directly with the path of the ball. Being too far off to the side or allowing the Smart Coach radar to tilt down slightly in your hand may result in a low or missed speed reading. Once the radar beam is positioned directly in line with the path of the ball, begin holding down the GRAY button as the pitcher starts their motion. Do not release until the speed appears on the display. You have just measured the fastest speed of the ball right out of the pitcher's hand.

**IMPORTANT NOTE**: Release the GRAY button as soon as the Pitch Speed appears to avoid also measuring the Exit Velocity of a hit




## SMART COACH RADAR FOR HITTING OFF A TEE OR SOFT TOSS

Exit Velocity (Ball Exit Speed off the bat) is a direct measure of the power of a hit. To accurately measure Exit Velocity, make sure the radar beam lines up directly with the path of the ball. Allowing the Smart Coach radar to tilt down slightly in your hand may result in the ball not being in the radar beam at the point of contact. Once the radar beam is positioned directly in line with the path of the ball, begin holding down the GRAY button as the hitter starts their motion. Release the button well after the ball is hit. The most consistent and accurate measurement of Exit Velocity occurs during a well-hit line drive.

## SMART COACH RADAR FOR HITTING WITH LIVE PITCHING

The Smart Coach radar is always looking for the fastest speed when it makes a measurement. To measure both Pitch Speed and Exit Velocity, HOLD down the GRAY button through the entire sequence. The first number that appears will be the Pitch Speed. If the Exit Velocity is faster than the pitch speed, it will be displayed after a short delay. A well-hit line drive should be faster than the incoming Pitch Speed.

**IMPORTANT NOTE**: If the Exit Velocity of the hit is SLOWER than the incoming Pitch Speed, then only the Pitch Speed will be displayed.

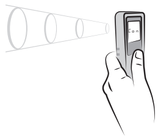
# AUTOMATIC TRIGGER / PERSONAL TRAINING MODE

## HOW TO ACCESS

Automatic Trigger/Personal Training Mode allows for speed measurement without having to manually trigger. To access, hold down the black MODE/RECALL button for 2 seconds, until a flashing "Con" is displayed, and then release. The Smart Coach radar is now in Constant-On mode, and it will automatically capture speed readings without having to be manually triggered. Position the radar beam directly in line with the path of the ball, either going away or coming towards you. Make sure it is held up vertical either by hand or use a smart phone tripod mount to set it up for hands-free operation. Pressing either button will take the Smart Coach radar out of Constant-On mode and return it to manual trigger mode.

## HOW IT WORKS

Automatic Trigger/Personal Training Mode provides easy measurement of Pitch Speed, Exit Velocity, or both speeds in the same sequence. Once entered, a flashing "Con" will appear and continue to display on the screen until a speed between 25 and 130 MPH is picked up. After 3 seconds, the speed will disappear from the display, and a flashing "Con" will reappear. If you are measuring Pitch Speed and Exit Velocity in the same sequence, the fastest speed of the two will continue to display for 3 seconds. If the Exit Velocity of the hit is faster than the incoming Pitch Speed, then both speeds will be stored in the RECALL memory. After a few minutes of inactivity, the unit will automatically shut off.



## IMPORTANT: BATTERY LIFE

Battery life will be substantially shorter in Constant-On mode. A brand new set of high quality alkaline AAA batteries should last over an hour in this mode. We recommend you purchase "NiMH" rechargeable AAA batteries if you plan on using the Ball Coach radar in Constant-On mode.

# SPECIFICATIONS

- Range: (depends on type and size of ball)
  - Baseball/Softball up to 120 feet away
  - Volleyball up to 200 feet away
  - Tennis Ball up to 70 feet away
- 25 to 130 MPH (Accuracy +/- 1 MPH)
- 40 to 209 KPH (Accuracy +/- 2 KPH)
- Recall Memory: 25 speed readings
- Size: 4.7 x 2.3 x 0.8 inches
- Weight: 4.5 ounces with batteries
- Battery Life (Typical Use):
  - 2 new alkaline AAA batteries (included)
    - Manual Trigger Mode > 1,500 Readings
    - Constant-On Mode > 1 Hour
  - 2 new NiMH rechargeable batteries (not included)
    - Manual Trigger Mode > 3,000 Readings
    - Constant-On Mode > 2 Hour
- NOTE: Not intended for measuring vehicle speeds

## PocketRadar.com

Make sure to visit PocketRadar.com for more details, tips, training drills, videos, support, FAQs, and more. If you ever have any questions please contact us at **Support@PocketRadar.com** or call toll-free in the U.S. at 888-381-2672.

# HOW TO SELECT MODES

To select mode of choice, hold the MODE/RECALL button down constantly, and every 2 seconds it will cycle through to the next mode. Release button to execute the displayed mode.

YOU CAN SELECT FROM:

- "Con" = Constant-on / Automatic Trigger
- "CLr" = Clear Recall Memory
- "Unt" = Change Units
- "OFF" = Immediate Shut Down

Releasing the button when this is displayed will put the Smart Coach radar into Automatic Trigger / Personal Training Mode. (Note: Battery life will be substantially shorter in Constant-On mode).

Releasing the button when this is displayed will clear all of the recall memory. (Note: If you do not want to clear memory, continue holding the button down).

Releasing the button when this is displayed will cause the units to flash. Pressing the GRAY button will toggle between MPH or KPH. Tap the MODE/RECALL button to lock in choice.

Releasing the button when this is displayed will shut off the Smart Coach radar (Note: It will also automatically shut off after sveral seconds of inactivity).

## CAUTION

**ALWAYS REMEMBER TO STAY SAFE WHEN MEASURING. NEVER PUT YOURSELF IN A PLACE WHERE YOU COULD BE STRUCK BY A MOVING OBJECT. WHEN POSSIBLE, MEASURE OBJECTS MOVING AWAY FROM YOU, RATHER THAN TOWARDS YOU.**

# INTERFERENCE

- The Smart Coach radar is an extremely sensitive and accurate motion detector. Many everyday items may have unseen internal moving parts or may produce electrical interference that can generate false ghost readings.
- The Smart Coach radar has software designed to ignore most of these false ghost readings, but you need to be aware of things in your environment that may cause interference.
- One technique to test for interference is to make a measurement in the same direction with no obvious object in motion and see if you get a speed reading.

# GET BETTER FASTER

## FOR THE FIRST TIME, SEE IMMEDIATE RESULTS OF YOUR COACHING AND TRAINING

- PROVIDE INSTANT FEEDBACK WHILE OBSERVING MECHANICS AT THE SAME TIME
- TRAIN WITH MEASURABLE RESULTS AT HOME AND PRACTICE

## PITCHING

- Build muscle memory and find the ideal speed ranges between fastballs and off-speed pitches
- Establish ideal mechanics that will increase velocity and strikeout rates.

## HITTING

- Exit Velocity is a direct measure of the power of a hit. Every 1 MPH increase = 5 extra feet
- Find the right bat size that will provide the most power and consistency for any swing.

Check out **PocketRadar.com/SmartCoach** for tips, drills, and videos.

# SUPPORT

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

**Support@PocketRadar.com**
**PocketRadar.com**
**888.381.2672**

POCKET RADAR™

# RETURN INFO

For US Customers:

If your Pocket Radar product is not working properly please

**DO NOT RETURN TO THE RETAILER OR STORE.**

We are here to help. Please contact Pocket Radar, Inc. and we will take care of you. You can reach us toll-free at 888-381-2672 or by e-mail at Support@PocketRadar.com or by visiting PocketRadar.com/contact-us

# LIMITED WARRANTY

- Pocket Radar, Inc. warrants to the original user that this product will be free of defects in workmanship and materials for a period of two years from the date of purchase.
- If the product is found by Pocket Radar, Inc. to be defective, Pocket Radar, Inc's entire liability and your exclusive remedy for breach of warranty shall be that Pocket Radar, Inc. will repair or replace the product and return the product or its replacement to you at no charge, provided that you ship the product to Pocket Radar, Inc. in the authorized RMA shipping package (provided upon request), with a description of the defect and subject to the other conditions of this warranty. Should the product prove to not be repairable, Pocket Radar, Inc. may substitute an equivalent product of the same or similar style and of a value not lesser than the original purchase price of your instrument.
- Pocket Radar, Inc. warrants the repaired or replacement product to be free from defects in material and workmanship on the same terms as the product originally purchased. This warranty will be void if the product, serial number or other identification marks have been defaced, damaged or removed. This warranty does not cover wear and tear due to normal use, or damage to the product as the result of improper usage, neglect of care, alteration, accident or unauthorized repair, nor does this warranty apply to the batteries necessary to operate the product.
- This warranty is extended to the original retail purchaser only and may not be transferred or assigned to subsequent owners. In order to validate your warranty, you must provide proof of purchase acceptable to Pocket Radar, Inc. together with the product for warranty repair/replacement.
- Products returned to Pocket Radar, Inc. must be pre-authorized by Pocket Radar, Inc. and must be returned in the authorized RMA (Return Material Authorization) packaging. Please contact Pocket Radar, Inc. to obtain this authorized package and to obtain return instructions or for any other question regarding this warranty.
- THE FOREGOING WARRANTY IS GIVEN IN LIEU OF AND POCKET RADAR, INC. DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, WITH RESPECT TO THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, (1) THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, OR (2) THAT USE OF THE PRODUCT WILL BE UNINTERRUPTED AND ERROR FREE.
- Pocket Radar, Inc. shall have no liability for any indirect or speculative damages (including, but not limited to, consequential, incidental and special damages) relating to the use of or inability to use this product, whether arising out of contract, negligence, tort, or under any warranty theory, or for infringement of any other party's intellectual property rights, irrespective of whether Pocket Radar, Inc. had advance notice of the possibility of any such damages, including, but not limited to, loss of use, revenue or profit. In no event shall Pocket Radar, Inc's total liability for all claims regarding the product exceed the price paid for the product. Pocket Radar, Inc. neither assumes nor authorizes anyone to assume for it any other liabilities.
- Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

# FCC CLASS B PRODUCT LABEL 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.

# FCC CLASS B USER MANUAL STATEMENT

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