

Do you know how fast you really are? THE LS personal sports radar can tell you.

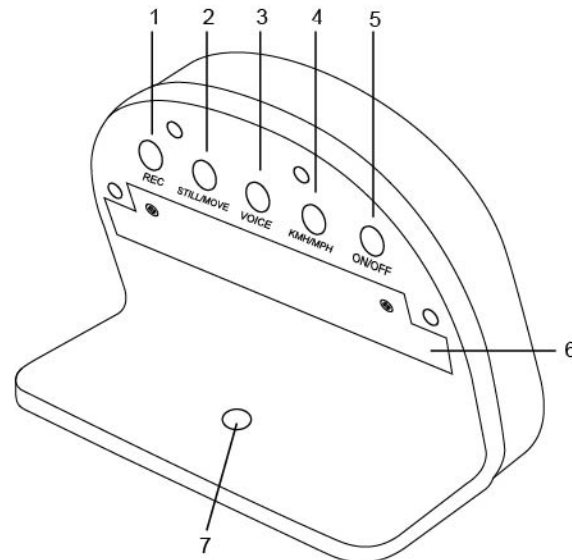
- \* Accurately measure the speed of your delivery
- \* Measure your performance in most sports such as baseball, cricket, hockey, tennis, squash, soccer,football, handball, running, skating and many more.
- \* Lightweight and easy to use. Unlike most of radar guns, it does not require a second person to hold it and point on the target.
- \* Measures up to 150mph (199Kmh)
- \* Support stand so can be placed on any flat safe surface
- \* Speech function announces speeds.
- \* Bright LED display can be easily seen from a distance.
- \* Automatic Battery saver - Shuts off after 5 minutes of inactivity to extend battery life.

Specifications

Still mode speed range: 3 to 150 mph (5 to 199 Km/h)  
Move mode speed range: 25 to 150 mph (40 to 199 Km/h)  
Battery type: 5pcs AA batteries (batteries not included)  
Operating Time: Without Voice up to 50 working hours, With Voice up to 30 working hours  
Operating Temperature Range: 32 – 104F / 0 – 40°C

Product content:

- 1PC Radar
- 1PC Mini tripod
- 1PC Carry bag



1. On/Off—Push "On / Off" button to turn on the machine.
2. KMH/MPH—Push "KMH or MPH" button to choose which measurement you prefer. The LED light will indicate which one you choose.
3. Voice—Push "Voice" button to have speaker announce the readings. Push again to switch off.
4. Still / Move mode— see page #5
5. REC—Push "REC" button to see the last 10 recorded speeds.
6. Battery— see page 6
7. Tripod— see page 7

How to select your mode

Still and move mode stands for different movement detection, choose the correct mode to suit your sports

When screen shows F0, it is in "Still Mode". When screen shows F1, it is in "Moving Mode".

Still mode:

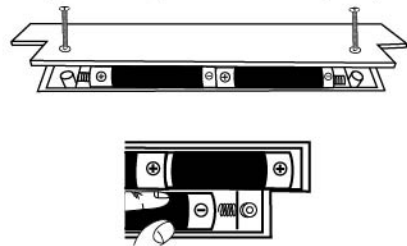
1. Baseball pitch
2. Baseball swing
3. Fast pitch
4. Fast pitch swing
5. Tennis swing

Move mode:

1. Ice hockey shooting
2. Lacross shooting
3. Soccer kicking

Battery Installation

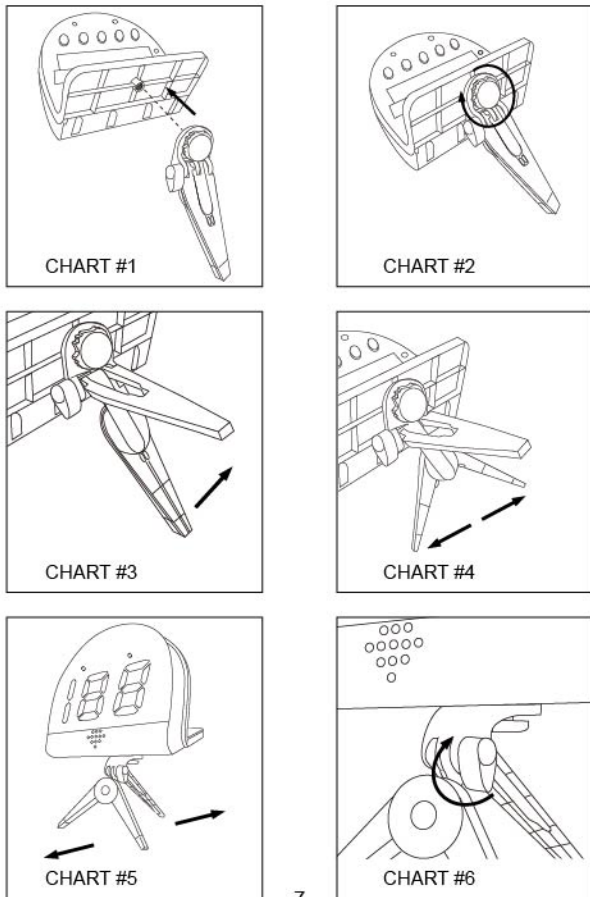
The LS personal sports radar operates on 5 AA batteries. To install, please open the cover on the back of the unit. After placing the batteries, put the cover back. The radar turns off automatically when it does not measure any speed after 5 minutes. When battery power is low, the screen will show "Lo" and repeat in every 30 seconds until you replace with new ones.



Safe battery usage

Use alkaline batteries for best performance and longer life. Use only the type battery recommended for the unit. Batteries should be replaced only by an adult. Insert batteries with the correct polarity (+ and -). Do not mix old and new batteries. Do not mix alkaline, standard(carbon-zinc), or rechargeable (nickel-cadmium) batteries. Do not short-circuit batteries. When not used for an extended time, remove batteries to prevent possible leakage and damage to the unit. Do not mix rechargeable and non-rechargeable batteries. Rechargeable batteries are to be removed from the toy before charging. Rechargeable batteries are to be recharged only under adult supervision. Do not recharge non-rechargeable batteries. Exhausted batteries are to be removed from the toy. Do not dispose of batteries in fire as they may leak or explode.

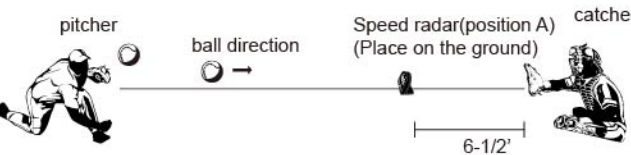
HOW TO ASSEMBLE THE TRIPOD



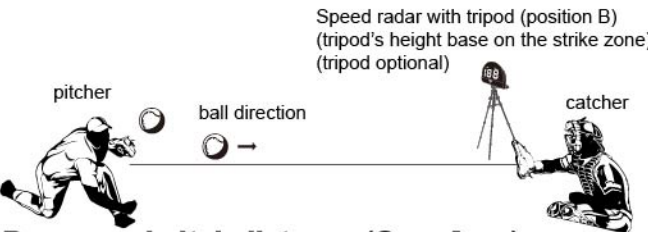
Measuring pitch / throw speeds

2 person use

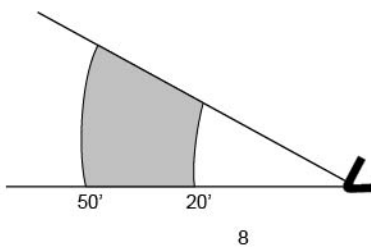
1. Position A: It's the best to place the radar 6.5' in front of the catcher to get the most accurate reading; Place radar facing the pitcher.



2. Position B: Place the radar beside the catcher and face the pitcher. (Please note due to the cosine effect, the reading of position B will be 1-2mph different with the reading of position A)

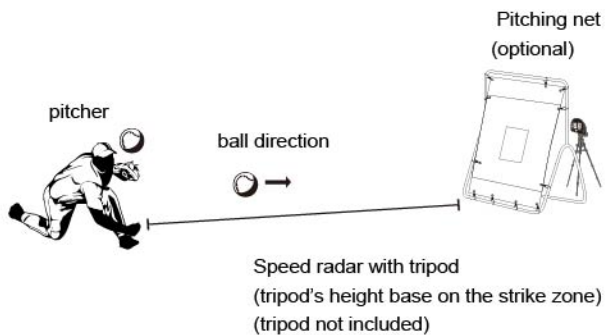


Recommad pitch distance (Gray Area)

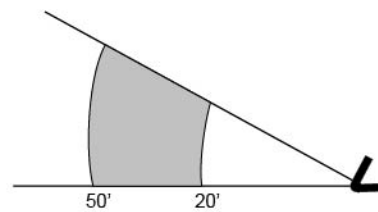


Single person use

1. it's the best to place the radar after the pitch net and face the pitcher.



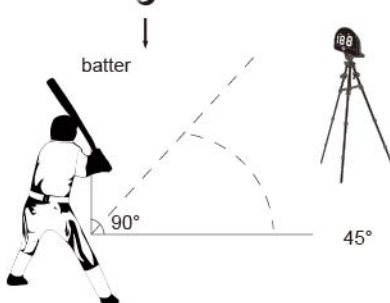
Recommad pitch distance (Gray Area)



Swing speed

1. it's the best to place the radar in 45 degree of the batter as the attachment shown and you will get the most accurate reading. (Remember to keep distance from the batter to avoid hitting the radar)

The radar should face the batter and remember to keep distance with the batter



Recommendation

1. Please place radar right behind the target area.
2. Please make sure the target is not more than 29-1/2' away from the radar to have more accurate readings.
3. Depends on type of sports, it may need to use tripod to get the more accurate readings
4. Always put the radar under protection such as net.
5. Radar has angle adjustment function. It can be adjusted from 72 degree to 87 degree. Depends on type of sport, please adjust the best angle to have more accurate readings.
6. There are certain mathematical properties of Doppler Radar that affect the accuracy of personal sports radar. Please read Cosine effect on target. As a quick reference to accuracy, remember to keep your targets direction of travel in a direct line with you and not perpendicular.

Trouble shooting:

Problems :	Possible Causes / Solutions:
No speeds displayed	Is the unit turned ON (indicated by a flashing unit's indicator lamp)?
	If using batteries ("AA"), is each one of the four batteries inserted correctly?
	Is the unit correctly aimed?
	Is the ball passing directly at, over from the unit; and is the object traveling at least within 6 ft. (2m) from the front face of the unit?
	Are there any external interference sources nearby (see below)?
	Is the unit blocked and/or covered? For example, if the unit is positioned behind a hockey or soccer net, a person playing goalie will block the signal.

Erratic or "ghost" readings (digits flash on their own)	The following are possible sources of interference that, if in proximity your unit, may affect readings: Electric fans, large power lines, fluorescent lights, other transmitting devices, 2-way radios, or other RF transmitting devices
	Rain, snow or heavy moisture in the air may cause interference.
	Inconsistent readings can also result from altering the positioning (angle and distance from target) of the unit—see earlier section on "Angle Error".
Batteries run down too quickly	Use higher quality Alkaline batteries
Unit displays "LO"	Your batteries are low on power—replace them immediately.

Cosine Effect on target

The speed radar will measure the relative speed of a target as it approaches the radar gun. If the target is in a direct line with the radar gun the measured speed will be exact. As the angle of incidence increase, if you move either right or left of this direct line, the accuracy will decrease. The measured speed will decrease as you move off this centerline. The phenomenon is called the cosine effect. The United States Federal Communications Commission (in 47 CFR 15.105) has specified that the following notice be brought to the attention of users of this product.

FCC statement

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 is 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.
- \* 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 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 device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter. For further information, contact: customer service: 858 536 7900

Idea Submission

If you have an idea for a new and innovative sports training product, visit [www.trigreatusa.com](http://www.trigreatusa.com) to submit your concept. Some restrictions may apply.

Limited Warranty.

Register your product at [www.trigreatusa.com](http://www.trigreatusa.com) to ensure warranty coverage, get new product information and special deals from [www.trigreatusa.com](http://www.trigreatusa.com)

Tri-great USA warrants to the original consumer purchase of any Tri-Great USA product it manufactures that the product will be free of defects in materials or workmanship for 90days (unless specified in alternate warranties) from the date of purchase. If defective and purchased from a retail store, return the product along with receipt to the retail store where the product was purchased. If the item was purchased from Tri-great USA, return the product along with the packing slip (proof of purchase) postage prepaid to the address below for replacement consideration. Label: Attn: Returns

This warranty does not cover damages resulting from accident, misuse, abuse or lost merchandise. Only valid in the USA. All returns sent to Tri-great USA require a return merchandise authorization number (RMA). For returns to Tri-great USA and for all other customers service inquiries, please call toll free, 858 536 7900 for a return authorization number for any exchange.



Personal Sports Radar Instruction Manual