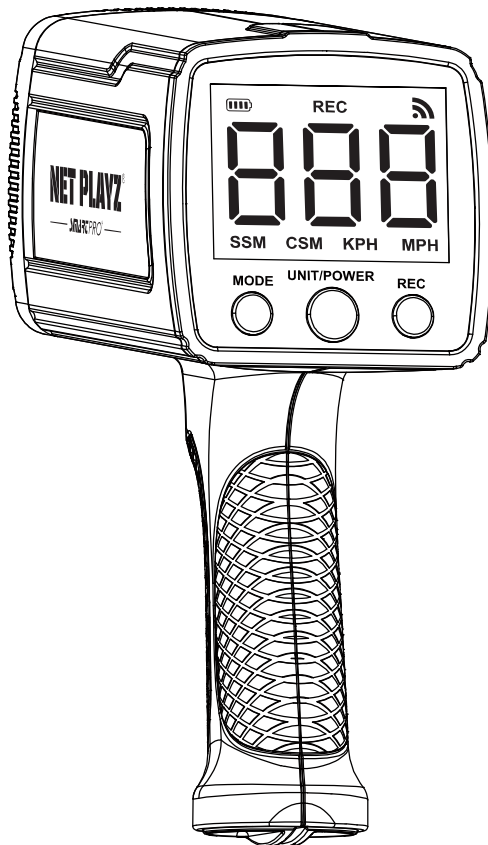




MODEL: NIS317
NAME: SPORTS RADAR GUN
- VELOCITY X

VELOCITY X INSTRUCTION MANUAL



WE ENCOURAGE OUR CUSTOMERS TO LEAVE REVIEWS OF OUR PRODUCTS ON THE
RETAILER'S WEBSITE WHERE THE PRODUCT WAS PURCHASED.

LIMITED WARRANTY (USA)

TRI-GREAT USA CORP. (the "TGU") warrants the product shipped is free from defective in workmanship and materials if being used under normal/proper condition.

This Limited Warranty covers all defects in materials and workmanship for 90 days from the date of purchase, but below situation is not included:

- Damaged through improper usage, negligence, misuse, abuse, transportation, acts of nature or accident. (including failure to follow the instructions manual)
- Used in commercial applications or rentals.
- Modified or repaired by anyone not authorized by TGU.
- Expendable items such as batteries, light bulbs, fuses, accessories, cosmetic parts, tools and other items that wear out for normal usage.

Once defective point is founded after purchasing from a Retail Store, please return it along with purchasing invoice to where the unit was purchased to get further assistance.

Please Keep the Instructions Manual! The Model Number is necessary required if you have any question to contact us. Please read through it very CAREFULLY to familiarize yourself with all parts and assembly steps. Kindly refer to below parts list and be sure that all parts have been included before assembling!

Although we are dedicated to giving our customers the best product, a question may arise or parts may be missing. Once defective point is founded after purchasing from a Retail Store, please return it along with purchasing invoice to where the unit was purchased to get further assistance.

Customer Service email: service@trigreatusa.com



WARNING:

This equipment is not suitable for use in locations where children are likely to be present.



WARNING:

To satisfy RF exposure requirements, a separation distance of 1M or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

User manual requirements for Part 15 wireless product:

The user manual shall include the following or similar statement, placed in a prominent location in the text of the manual:

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.

Caution: Changes or modifications to this unit 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.

CE Compliance Statement

This device complies with EN 300 440 and the essential requirements of EU EMC Directive 2014/30/EU.

Operation is subject to the following two conditions:

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

Unauthorized modification will invalidate the user's right to use the equipment within the European Economic Area.

Japan MIC (TELEC) Compliance Statement

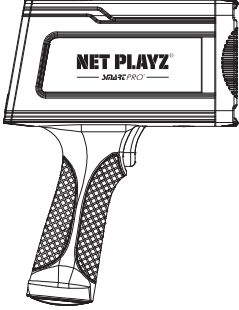
This device conforms to Japan Radio Law Article 2-1-8 and Article 49-14-11.

Operation is subject to the following two conditions:

- (1) This device shall not cause harmful radio interference;
- (2) this device shall accept any incoming interference even if it causes malfunction.

Any unauthorized alteration may revoke the user's operation qualification in Japan.

PARTS LIST

1	2
 NET PLAYZ[®] JBLAREPRO[™]	 NET PLAYZ[®] JBLAREPRO[™] SPORT RADAR GUN VELOCITY-X
VELOCITY X (1 PC)	STORAGE BAG (1 PC)

SPECIFICATIONS

Speed Range: 25–199 MPH (40–199KPH)

Detection Range: 65 FEET (20 METERS)

Weight (Battery Not Included): 12.17 OZ(345 G)

Operating Modes: Continuous Mode / Single Mode

Recall Memory: 100 Speed Readings Stored

Product Dimensions: 6.30 × 8.46 × 4.02 Inches (16.00 × 21.49 × 10.21 cm)

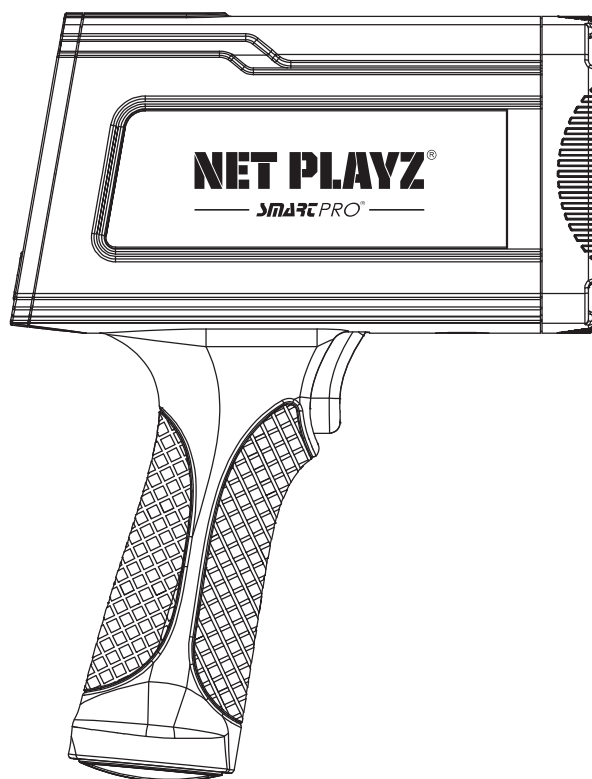
– **NOTE:** For sports objects moving at speeds below 25 mph (40kph), the device will not display valid speed readings - this is designed to ensure measurement accuracy for typical athletic movements.

– Two brand-new alkaline C batteries (not included) or Two brand - new rechargeable NiMH C batteries (not included)

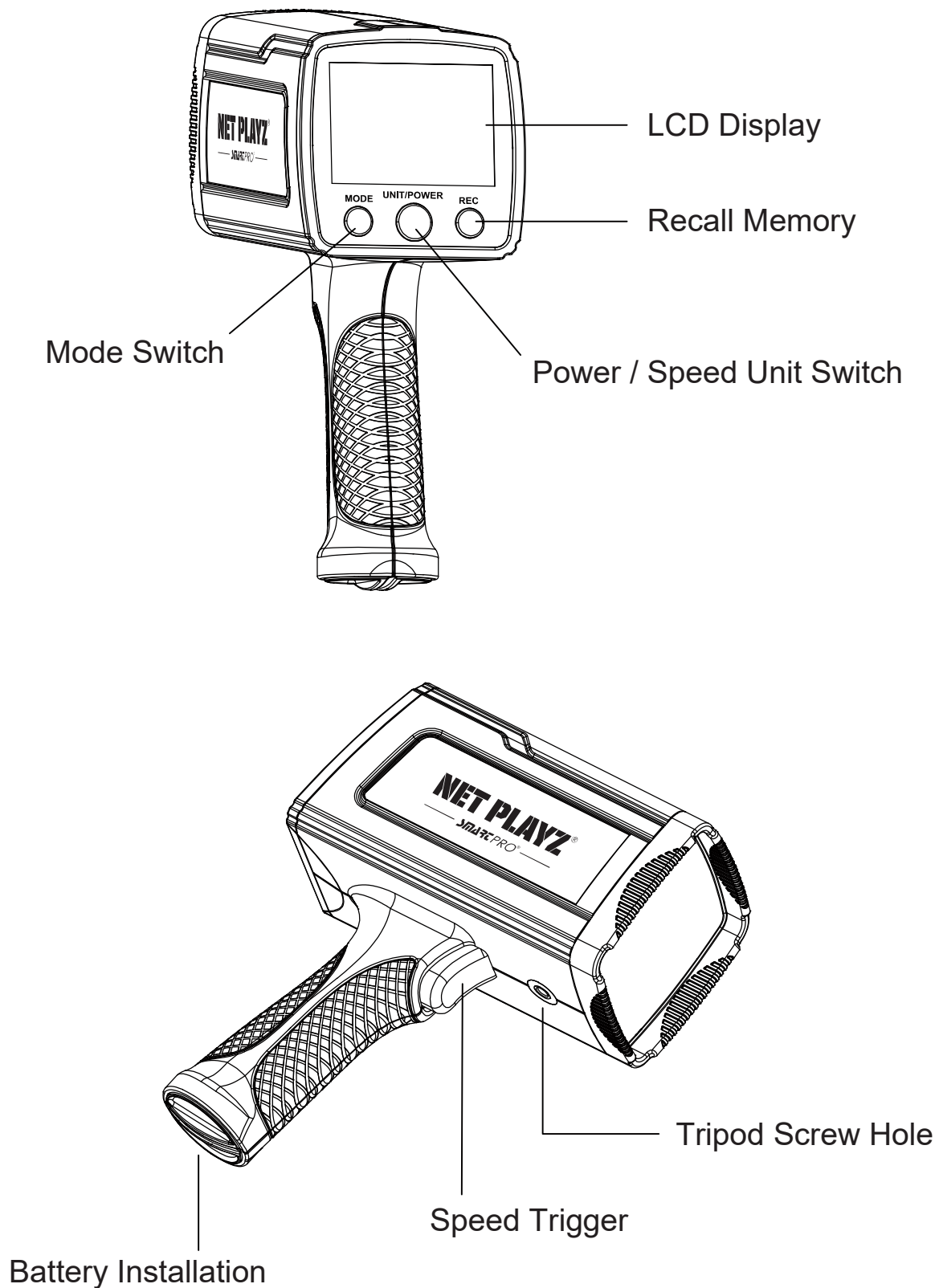
– The device will automatically power off if no speed is detected or no operation is performed within 5 minutes.

– In REC mode, the device will return to the speed measurement interface if no operation is detected within 5 seconds.

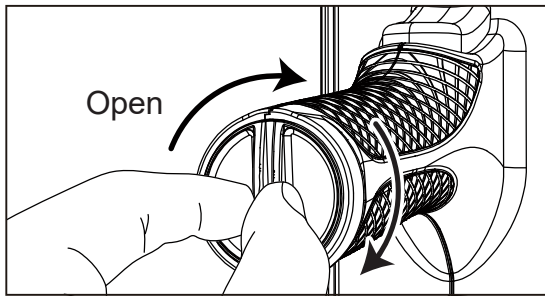
– Data stored in Recall Memory will be cleared after power-off.



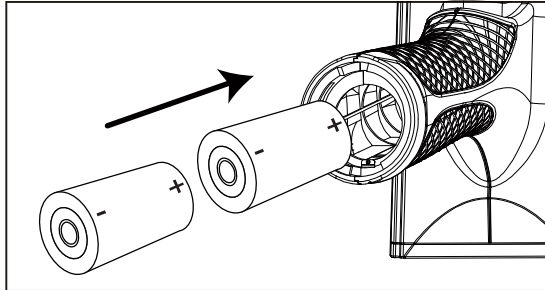
KNOW YOUR VELOCITY X



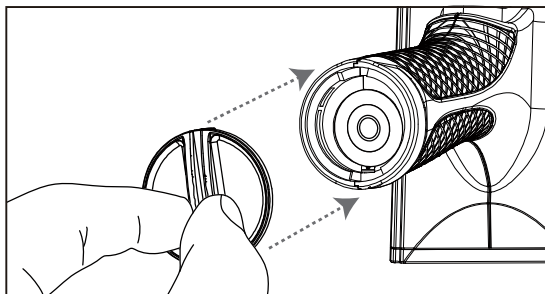
BATTERY INSTALLATION



1. Open the battery cover: Rotate the battery cover clockwise (according to the "open" direction indicated in the diagram) to open it.



2. Insert two size C batteries (purchased separately) into the compartment, aligning their polarity with the internal markings.



3. Secure the battery cover: Align the cover with the compartment opening, rotate it counterclockwise (according to the "close" direction) until snug and locked.

Battery Warnings

- Insert two size C batteries matching with polarity (+/-). Wrong polarity causes short circuits/leaks.
- Use only alkaline or NiMH rechargeable C batteries. Do NOT mix different types of batteries or new and old batteries.
- Never recharge non-rechargeable batteries, as there is a risk of explosion or leaks.
- Remove batteries if unused for more than one month to avoid damage caused by leakage.
- Keep batteries away from children. Seek medical help if they are ingested.
- Dispose of batteries in accordance with local environmental rules.

FUNCTIONS INTRODUCTION

SSM (Single Mode)

Details: Default single-trigger, single-measurement mode. The radar only starts measurement with manual trigger and pauses automatically after measurement is completed.

Usage: Single movement speed test, e.g., single baseball pitch speed detection.

CSM (Continuous Mode)

Details: The radar maintains continuous detection and can capture and save consecutive valid data without repeated triggering.

Usage: Batch data recording for continuous training, e.g., multi-round pitching drills for teams.

REC (Recall Memory)

Details: Built-in historical speed data playback function. Short press the REC key to view up to 100 valid stored records; any additional data beyond this limit will automatically overwrite the oldest entries.

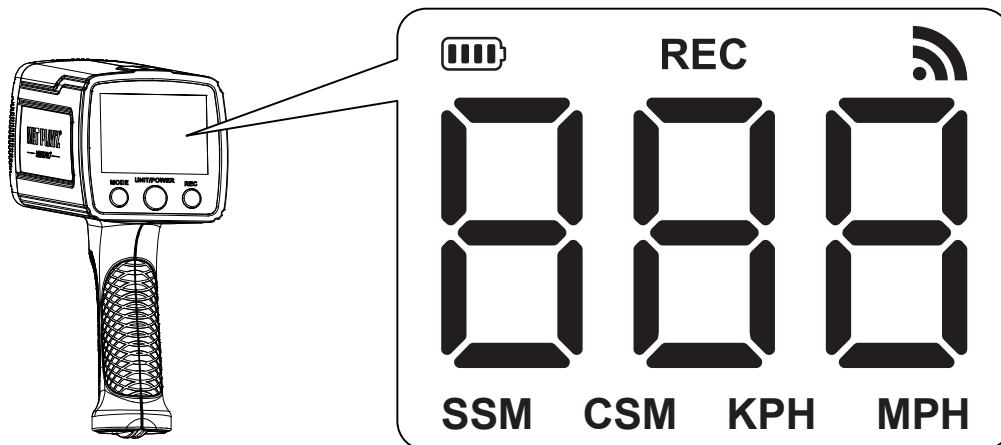
Press and hold the REC key to scroll through historical records in reverse order (e.g., 005→004→003→002→001). Release the key to confirm the target record number, then short press the REC key again to view the corresponding speed data.

Usage: For post-training data review, e.g., coaches checking athletes' pitching speeds, users comparing consecutive speed changes.

Speed Unit Switch

Details: Switch speed units between MPH and KPH (default unit is MPH at power-on).

Example: 90 MPH ↔ 144.8 KPH



INTERFERENCE

How Interference Affects the Radar Gun

A radar gun is an ultra-sensitive, high-precision motion detection device. Everyday household and electronic items often feature internal moving components or emit electrical signals, which can trigger false speed readings—known as ghost readings—even when no valid target (such as a baseball or tennis ball) is in motion.

Device Anti-Interference Design

The radar gun is fitted with built-in filtering software to block most false readings. That said, environmental interference cannot be fully eliminated, so it's critical to identify and avoid potential interference sources during use, particularly for training or precise measurement scenarios.

How to Test for Interference

Follow this simple method to check for environmental interference:

- Hold the radar gun in your standard measuring position, aiming it toward the intended target area.
- Confirm no visible moving objects are within the radar beam's path.
- Initiate a speed test (use MANU mode for a single measurement).
- If a speed reading appears with no valid target present, nearby interference is present—relocate to a clearer area or distance yourself from potential interference sources.

Common Interference Sources

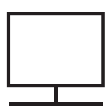
- Avoid operating the radar gun near the following items, as they frequently cause false readings:
- Household appliances (refrigerators, air conditioners, washing machines, etc.)
- Cell phones (especially during signal transmission or reception)
- Computers and laptops (including power adapters and internal cooling fans)
- Fluorescent bulbs and other high-frequency lighting fixtures
- Moving fans (ceiling fans, desk fans, ventilation fans, etc.)
- Microwave ovens (signal emissions from internal components may occur even when inactive)
- Dual radar gun usage: Never operate two radar guns simultaneously for speed measurement, as their overlapping signals will create severe mutual interference and inaccurate readings.



Appliances



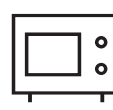
Fan Motion



Computers



Cell Phones



Microwaves

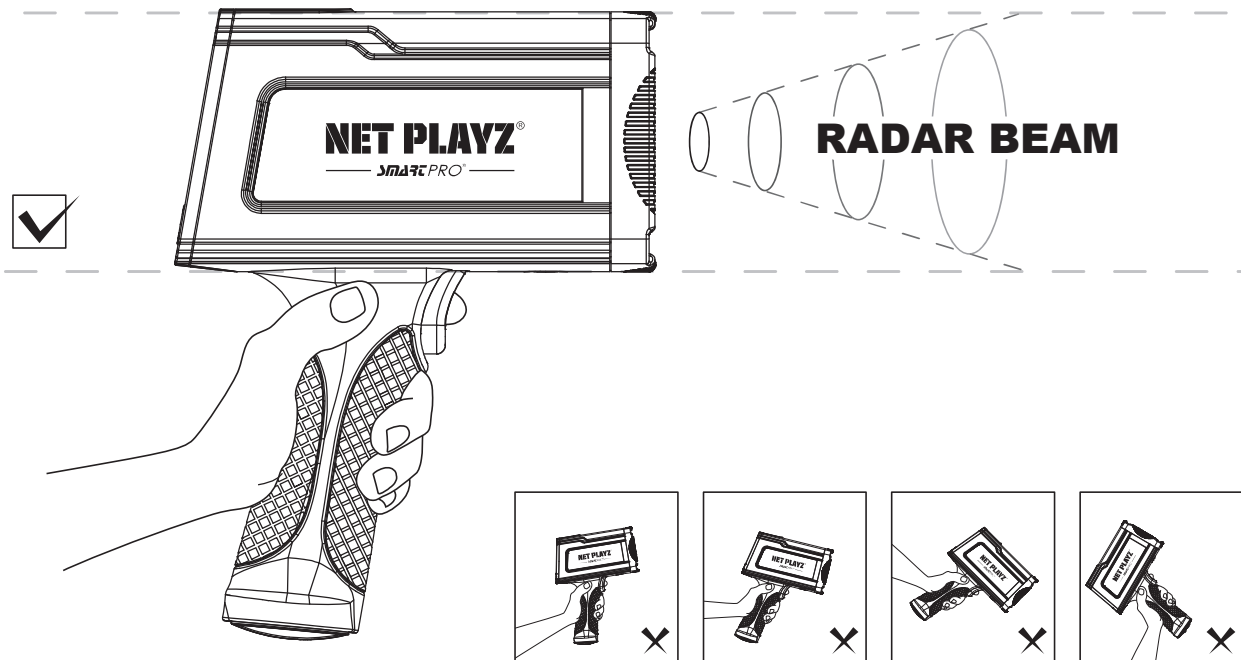


Florescent
Bulbs

VERTICAL POSITIONING IS CRITICAL

How the Radar Gun Works

The radar gun emits low-power radio waves that bounce off moving objects to calculate speed. These waves are focused into a narrow cone-shaped beam (similar to a flashlight) emitted from the radar lens (located on the back of the device, typically marked by a raised square or circular window).



Correct Vertical Grip

Hold the radar gun straight up and down vertically—like a smartphone camera—ensuring the radar beam aligns directly with the path of the moving object (e.g., a baseball, tennis ball, or golf ball).

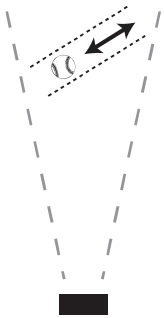
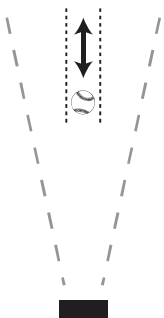
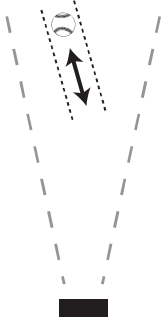
Consequences of Incorrect Tilt

Slight downward tilt: The radar beam may point toward the ground, missing the target entirely and failing to register a speed reading.

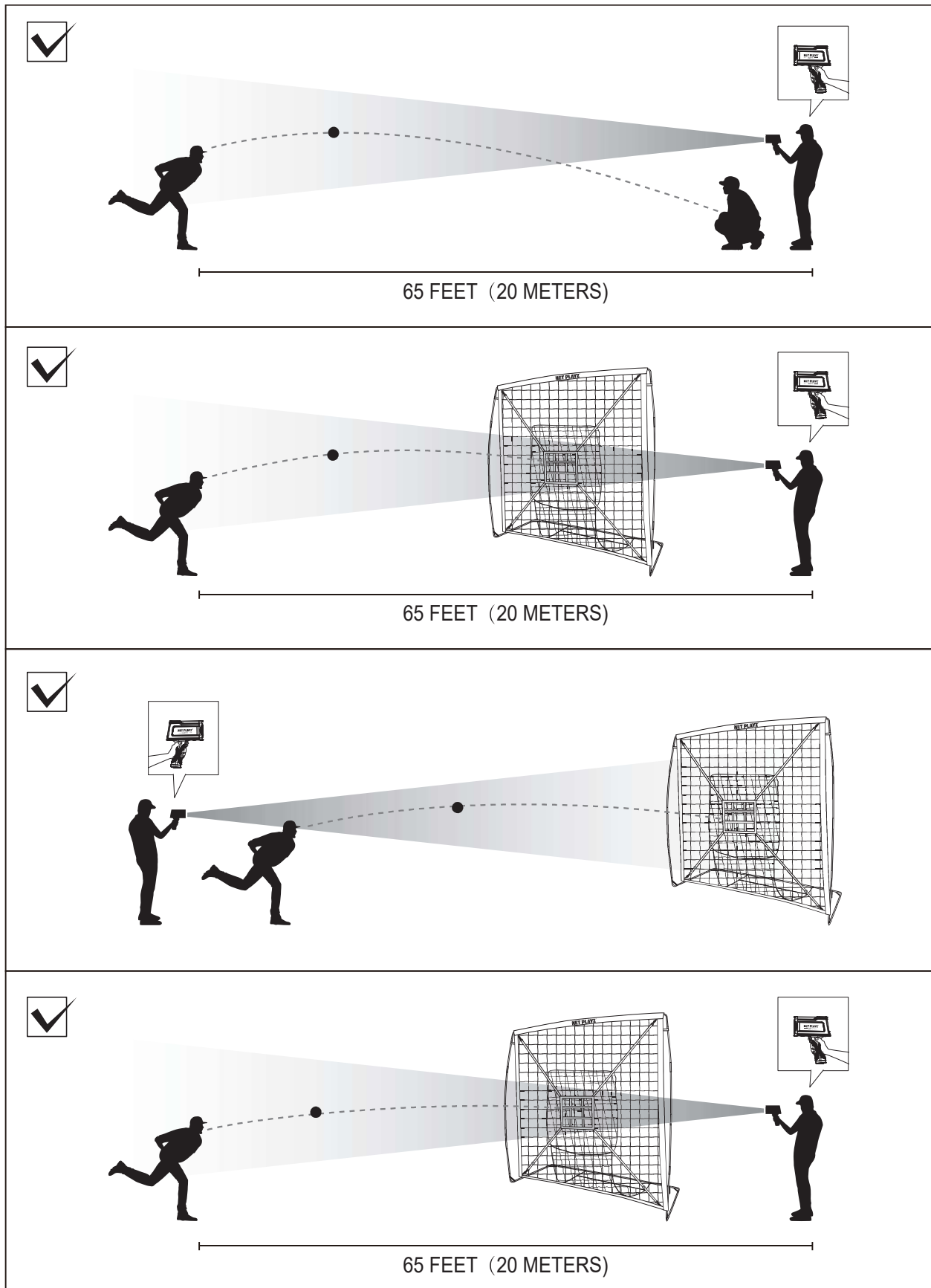
Blocked lens

Never cover or block the radar lens—this disrupts wave emission/reception and causes inaccurate or no measurements.

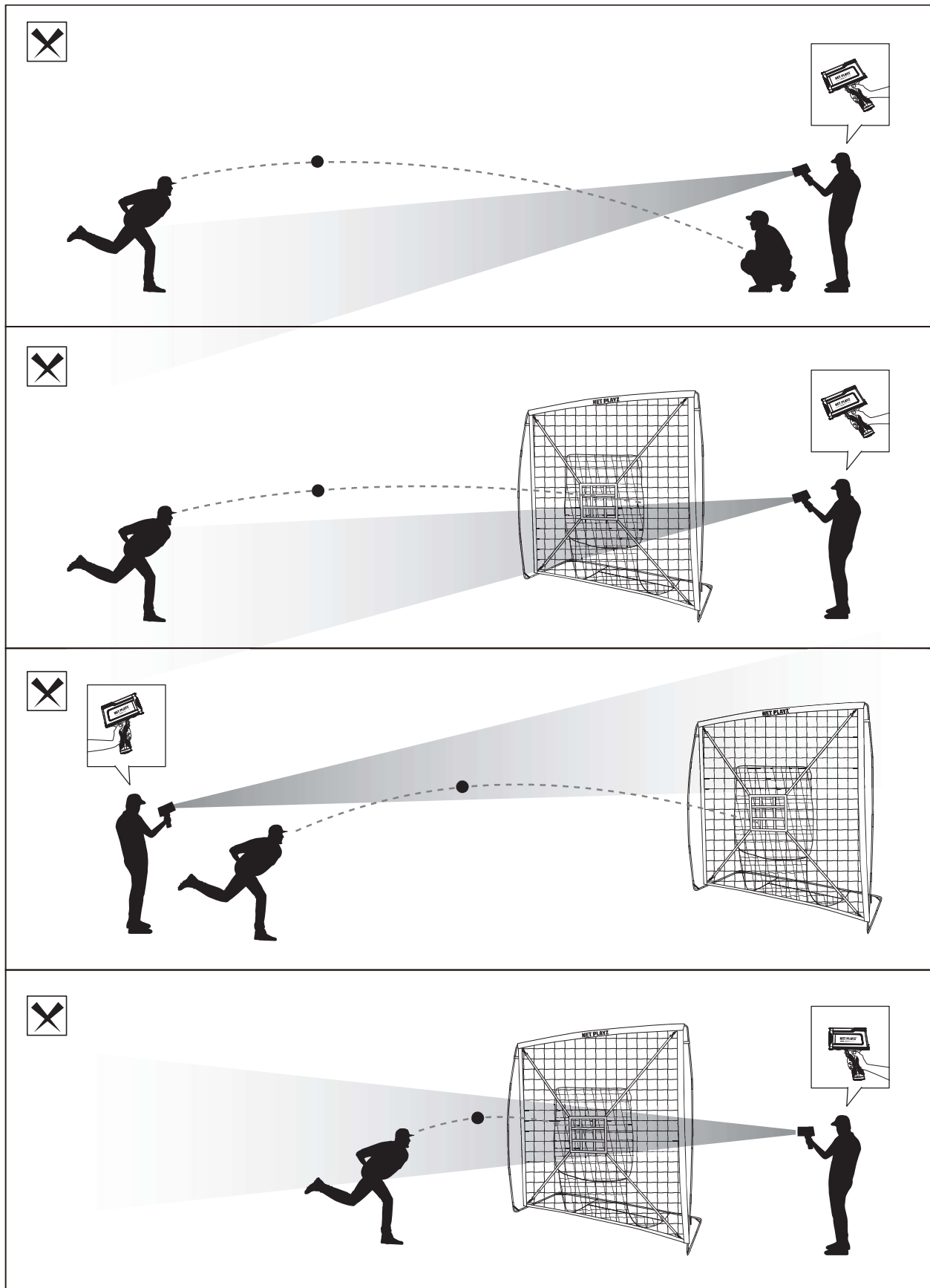
RADAR GUN BEAM ALIGNMENT GUIDE

INCORRECT	✗
	Alignment: Target path is at an oblique angle crossing the radar beam, and is not fully within the beam coverage area. Speed Measurement Result: The radar cannot stably capture the target's reflected signal, and will most likely fail to register a speed reading.
	Alignment: Target path is parallel to the beam, but the target is located at the edge of the beam coverage. Speed Measurement Result: Signal reception is unstable, leading to significant speed measurement errors or missed readings.
BEST	✓
	Alignment: Target path is fully within the central area of the beam, and is aligned perpendicular to the beam direction. Speed Measurement Result: Signal reception is stable, resulting in the highest speed measurement accuracy—this is the recommended standard alignment method.
OK	✓
	Alignment: Target path is slightly tilted relative to the beam, but remains fully within the beam coverage area. Speed Measurement Result: Signal reception is mostly stable, allowing for valid speed readings—but accuracy is slightly lower than the “BEST” alignment method.

CORRECT USAGE SCENARIOS



INCORRECT USAGE SCENARIOS



RADAR USED WITH TRIPOD

Please set the detection mode to CSM when using the tripod.

