Handheld
SPEED Radar

User Guide

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Specification

Speed Performance:	10-200mph at up to 457m / 16-322kph at 457m
Accuracy:	± 1mph / ± 2kph
Battery Type:	'C' Cell (x2)
Operating Time:	Up to 20 hours
Operating Temp:	0 - 40°C
Size:	109 x 213 x 152mm
Weight:	540 grams

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 methods:

- 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

Information to the user:

Changes of modification to the Speed Radar gun, instruction manual or printed materials, not expressively approved by Laser Tech UK Ltd for compliance could void the user's authority to operate the equipment, and/or the warranty.

Introduction

Your Laser Tech UK Ltd Speed Radar uses digital technology to provide instantaneous speed measurements to ± 1mph accuracy. The Speed Radar is a simple, point and shoot radar gun for measuring the speed of a moving vehicle at 10-200mph from up to 457m away.

Unpacking your Speed Radar Kit

After receiving your Laser Tech Radar Speed Gun kit check to make sure everything has arrived, undamaged. Your package should contain:

- Hard waterproof carrycase
- Speed Radar Gun
- User Guide
- 'C' Cell Batteries (x2)

Battery Installation

Your speed radar operates on 2 'C' alkaline batteries. To install, remove the battery cover by rotating the battery cap anti-clockwise. Insert both batteries positive end first and replace the cap by depressing and rotating clockwise.

How to Use

1. Turn 'ON' by pressing the button underneath the LCD display.
2. Aim at the target and depress the TRIGGER. As a quick reference to accuracy, remember to keep your targets direction of travel in a direct line with you and not perpendicular to you.
3. Turn 'OFF' by pressing the button underneath the LCD display for 3 seconds or until the display shuts off. The display will read 3, 2, 1 and then power off.
4. To change the unit of measure from MPH to KPH and vice versa, make sure the unit is 'ON'. Next pull the trigger, holding it down, and press the button underneath the LCD to toggle between MPH and KPH. The unit of measure will be displayed in the top right hand corner of the LCD display. When you are satisfied with the unit of measure simply release the power and trigger buttons.

Note:

The speed radar gun contains an automatic battery saving shut off feature. After 10 minutes of non-use, the speed radar will automatically shut off.
If a battery symbol appears on the lower right-hand corner of the display, the battery voltage is beginning to deteriorate meaning new batteries should be inserted.
Remove batteries if storing long-term.

Target Acquisition

A target speed can only be obtained once a vehicle is travelling more than 10mph/16kph. To acquire the speed of a target with the speed radar powered on, aim at the target and depress the TRIGGER. An icon will appear in the upper right-hand corner of the LCD display. This indicates the Doppler Radar is functioning.
The radar will continue to be active searching for speed until the trigger is released. Upon release of the trigger, the fastest speed captured within that series will automatically be displayed.
The speed of the target will appear on the LCD display in MPH or KPH depending on what has been activated.

There are certain mathematical properties of Doppler Radar that affect the accuracy of your speed radar gun. Please read the COSINE EFFECT ON TARGET VELOCITY below. As a quick reference to speed accuracy, remember to keep your targets direction of travel as parallel to your position as possible, and not perpendicular.

Cosine Effect on Target

The speed radar gun 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 increases, either side of the direct line between the speed gun and target, the accuracy will decrease. The measured speed will decrease as you move away from this centreline. This phenomenon is called the Cosine Effect. It is called this because the measured speed is directly related to the cosine of the angle between the radar gun and the target's direction of travel.