

# HANDHELD TARGET SIMULATOR

## FOR RADAR SENSORS



An essential tool for testing radar sensors. Its compact design, wireless operations, and programmability greatly enhance the applications of a radar target simulator.

The Handheld Target Simulator simulates the speed of a moving target, making it essential for **End-of-Line Testing, Sensor Verification, In-Field Calibration, and Sensor Alignment.**

### Wide Speed Range

The speed of the simulated target can be programmed

**-320** km/h | **+320** km/h

### Frequency Range



## VERIFICATION OF RADAR SENSOR PERFORMANCE

Simulate moving targets, adjust speeds and customize RCS

CONCLUSIONS

## Why choose the Handheld Target Simulator

### Accurate Simulation ✓

Provides Doppler-Shifts and adjustable target speeds for more accurate radar sensor testing.

### Portability ✓

Compact and rugged, perfect for both lab and outdoor use.

### Ease of Use ✓

Intuitive interface for quick adjustments, minimizing setup time and maximizing efficiency.

### Versatility ✓

Ideal for sensor alignment, End-of-Line Testing, and In-Field calibration.

## Where to use ?

Applications of the Handheld Target Simulator

- ✓ Sensor Alignment and Installation
- ✓ Regular Sensor Inspections
- ✓ Sensor Development and Testing
- ✓ Field Testing and Functionality Validation

## Key Features



### Flexible Operation Options

Portable or connected - It adapts to your workflow, making it an indispensable tool for all your radar sensor testing needs.



### Wide Speed Range

Ability to adjust speeds from -320 km/h to +320 km/h

You can create test scenarios that mimic the wide variety of situations radar sensors encounter, from stationary targets to high-speed moving objects.



### Customizable Radar Cross Section (RCS)



### Compact, Rugged, and Built for the Field

Designed to be durable and portable for In-Field testing



### Calibration of Doppler-Shift/ Speed

This provides reliable proof of sensor performance



### Battery-powered mode for On-the-Go Testing



### User-Friendly Interface

Easily set the desired speed, RCS, and Doppler-Shift



### Programmable Presets

Customize and save specific test scenarios

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### PERFORMANCE

Frequency Range	76...77 GHz 77...81 GHz
Simulated Speed Range	-320...+320 km/h   -198.8...+198.8 mph
Target Size (typically)	5 m <sup>2</sup>   53,8 ft <sup>2</sup>
Target Size Adjustment	0...30 dB (in 0.5 dB steps)
Antenna Polarization	Linear - Supports vertical or horizontal
Horizontal -3 dB Beam Width	25° ± 5°
Vertical -3 dB Beam Width	25° ± 5°
Sidelobe Level	max. -30 dB

### MECHANICAL

Weight	950 g   33.51 oz
Dimensions (H/W/D)	190 x 110 x 45 mm   7.48 x 4.33 x 1.77 inch

### GENERAL

Battery	3 x 3.6 V (18650)
Operating Time	4.5 h
External Supply Voltage	5 V to 20 V
External Supply Power	> 7 W
Operating Temperature Range	0...+50 °C   32...+122 °F
Host Interface (SCPI/Python)	Serial data, Type-C Connector

