

HEADLIGHT TESTER, RADAR TESTING FOR LIGHT AND HEAVY VEHICLES

COMBINED DEVICE
R-HLT30 + RY-RT300



ASA Livestram
Compatible

neu

INNOVACIÓN
Infrared measuring
device for Vehicle
Inspection Programs



TOTAL SOLUTION
End-to-end integration of the
system for efficient
performance

About the Radar Test System



Compatible with most of
the vehicles and sensors



Compact size, intuitive
operation. Two tests integra-
ted in one structure



Battery system for
maximum flexibility



In-house diagnostics ensure
operational readiness and
accuracy



Range testing and angular
accuracy testing of the radar;
suitable for MIMO sensors



Simulation capability of
different users and speeds



Radar Power Measurement
(EIRP)



Check of radar signal
bandwidth

Features

- ✓ Checking of radar sensor performance
- ✓ Inspection after accident repair
- ✓ Checking the paint and the mounting position
- ✓ Evaluation of leasing returned goods
- ✓ Report after the test

Autonomous emergency braking (AEBS)

From July 6, 2022, emergency brake assist systems are mandatory for UN-R 152 type-approval. From July 2024, emergency brake assist is mandatory for new registrations of passenger cars (M1) and light commercial vehicles (N1).

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Weight: 7,5 kg
Forward path: 500 mm
(Telescopic rail platform)
Height: De 200 a 1.500 mm



Software PC



Object Simulation Functionality

Complete integrated simulation system

- ✓ Radar distance simulator
- ✓ Simulation of object angle
 1. Horizontal angle
 2. Angle in relation to height
 3. Angle deformation
- ✓ Variation in the size of objects

ADAS/AD, emergency braking (AEB), adaptive cruise control (ACC) functions test-ready

Technical Data

Frequency range	Target simulation	76 GHz - 81 GHz	
	Radar performance (EIRP)	76 GHz - 81 GHz y 24 GHz	
Distances	Minimum/maximum distance	2.5 ~ 250 m	
	Step length	~ 4 cm	
Address	Minimum/maximum	±1 / ±500	
	Upload	±1 km/h	
Antennas	TX	12	Antennas arranged in 3 segments for angle-object simulation
	RX	12	
	TX and RX antennas have different polarization - implemented polarization detection guarantees optimum signal quality		
Feeding	12 V (battery operation possible)		
Control interface	Based on SCPI (Python software available for demo)		

Ask us about our R-HLT30 combined ruloscope to use both devices optimally in one optimized use of both devices in a single column.

Radar tester - Possible measurements

Radar power measurement

EIRP measurement

- ✓ Prior knowledge of the sensor and its EIRP
- ✓ Pmeas bumper measurement sensor
- ✓ The instrument calculates EIRPmeas
- ✓ Verification of compliance of EIRPmeas with limit values

EIRP = Equivalent isotropic radiant power

Radar target simulation

Cooperative system (requires access to the sensor)

- ✓ Radar distance simulation object angle

1- Angle and elevation

2- Angular deformation

Variation of object size and velocity ADAS/AD ready.
For example: AEB, ACC...

Radar transparency of bumpers - Transmission coefficient

- ✓ Bumper is removed
- ✓ The first measurement is made with the bumper removed.
- ✓ Bumper painted / repaired
- ✓ Second measurement with freshly painted / repaired bumper
- ✓ The measured difference is the transmission coefficient of the bumper and can be compared with the manufacturer's specifications.

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