

UTP 5065 RTS

RADAR TEST SYSTEM
FOR PRODUCTION & VALIDATION



PRODUCT

Applications: Testing of Radar Sensors for Automotive, Motion Detectors, Level Measurement as well as Radar Components e. g. Antennas, Circuit Boards, Semiconductors, Radomes ...



Platinum
Alliance
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SIEMENS



Management
System
ISO 9001:2015
www.tuv.com
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FAST > FLEXIBLE > FOCUSED



UTP 5065 RTS AT A GLANCE

- › End of Line Testing as well as Validation of Radar Sensors
- › Small footprint
- › For 24 GHz and 76 ... 81 GHz Sensors
- › Integrated Radar Target Simulator for single or multiple targets
- › Manual and automated testing process
- › 2-axis automated DUT motion
- › High accurate angular DUT positioning
- › High accurate distance simulation and thermal stability
- › Fully integration in production process
- › Scalable number of test benches to combine into an automated test cluster



TECHNICAL DATA

UTP 5065 RTS

Main Characteristics

Application	End of Line as well as for Validation processes
DUT Handling internal	Automated
DUT Handling external	Manual handling or inline automation process
DUT input procedure	With drawer, turntable, robotic ...
Frequency range(s)	24 GHz / 76 ... 81 GHz (others on request)
Occupied bandwidth	Up to 5 GHz
Number of measurement axis	2 / Azimuth and Elevation
Axis motion	Both axis up to $\pm 90^\circ$
Motion Accuracy	< 0.001 position repeatability
Target simulation	Radar Target Simulator integrated
- Targets	Single or multiple target simulation
- Target dynamic	Target fixed distances or distance variation
- Target velocity	optional
- Occupied bandwidth	Up to 5 GHz
- Simulation distance	Up to > 400 m

RF Measurement

Frequency Domain Analysis	Equivalent Isotrop Radiated Power (EIRP), Occupied Bandwidth, Center Frequency ...
Time Domain Analysis	Rate, Pulse Width, Ramp Bandwidth, Rising or Falling FM Ramps, Detect signal anomalies ...
Further analysis and measurements	Customized Sensor calibration, antenna pattern, Chirp analysis ...

Mechanics / Power supply

Housing dimensions	800 x 1500 x 3000 mm (W x D x H) / Vertical setup
Weight	Approx. 400 kg
Setup	Vertical
Power supply Voltage	110 / 230 VAC

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