

# KT Thermal Test System

for Automotive Sensor Test

## Key Benefits

- Low energy consumption
- Lightweight and compact design
- Customizable and configurable
- Targeted and scalable heating/cooling for electronic circuits



## Overview

The Konrad Technologies (KT) Thermal Test System benefits automotive sensor manufacturers and their electronic component supply chain through design Verification and Validation (V&V), Highly Accelerated Life Test (HALT) or Stress Screen (HASS), sensor production test, sub-system and system level vehicle electronic test with Hardware in the Loop (HIL) test processes. The system is composed of a custom enclosure that can be integrated into a radar, lidar or camera test chamber to test sensors under controlled temperatures and enable the sensor signals to function normally due to low signal distortion and absorption by the enclosure. Konrad Technologies provides customers with custom KT Thermal Test Systems suitable for radiating RF devices that are scalable overtime.

## Features

- Lightweight, small footprint and low energy consumption
- Combines in-circuit, functional, RF and optical with thermal testing and HIL
- Lightweight, rigid, durable and low thermal conductivity absorber material
- Temperature specific air or gas used to create uniform or non-uniform temperature zones around the DUT
- Customizable and configurable
- Wide range of applications, including automotive ADAS

## Applications and Technology

The KT Thermal Test Systems have broad application usages, while overall shortening test lifecycles, reducing test times and providing reduced cost, weight, footprint and energy consumption.

The system incorporates a unique and innovative thermal material that can be molded around a Device Under Test (DUT) to provide channels through which hot/cold air or gas can be forced to create either uniform or non-uniform temperature zones around the DUT. As a result, the absolute temperature and rate of change of temperature in targeted areas can be controlled.

For automotive Advanced Driver Assistance Systems (ADAS) and Autonomous Driving (AD) applications, the KT Thermal Test System can test critical sensors, such as radar, lidar and camera sensors, performance at extreme specified operational temperatures. Konrad Technologies has combined thermo-test in a single procedure with traditional in-circuit, functional, RF, optical and Hardware in the Loop (HIL) scenarios, covering applications from V&V to high volume manufacturing and production test.



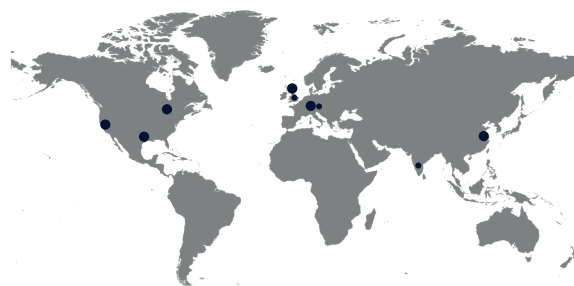
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