Seeker and HWIL Test Systems

Turnkey seeker, HWIL, SIL and laboratory test systems

ZETA integrates complete test systems for seekers and other RF sensors: anechoic cabinets, RF environment simulators, instrument racks, antennas and test software. Hardware-in-the-loop (HWIL), software-in-the-loop (SIL) and laboratory test simulators let the sensor under test see a controlled RF scenario, delivered by direct injection or by radiation inside the cabinet. For open-air work, ZETA also builds drone-integrated test systems.

APPLICATIONS

- Seeker development and acceptance testing
- Hardware-in-the-loop testing of RF sensors
- Software-in-the-loop and laboratory testing
- Open-air testing with drone-carried RF payloads



Figure 1. Seeker test setup: anechoic cabinet, instrument rack and horn antenna

Key Features

- Seeker test systems
- HWIL, SIL and laboratory simulators
- Drone-integrated test systems

Capabilities

Seeker test systems

The seeker is mounted at the cabinet aperture and receives radiated RF scenarios from the test system, with instruments and simulators in a rack beside it.

HWIL, SIL and laboratory simulators

Test simulators place the unit under test, or its software, inside a controlled RF scenario, with signals delivered by direct injection or by radiation.

Drone-integrated test systems

RF test payloads and antennas are integrated on a multirotor so that sensors are tested in the open air.



Figure 2. Anechoic cabinet used for radiated seeker testing



Figure 3. Multirotor carrying horn antennas for a drone-integrated test system

Warranty

All hardware and software procured from Zeta is under warranty against manufacturing or design failures for 2 years. Customer-specific warranty terms may be arranged.

Disclaimer

Due to ongoing research and development, Zeta reserves the right to change product specifications without notice.

About Zeta

Zeta Defence develops electronic intelligence (ELINT) and communication intelligence (COMINT) equipment and radar / electronic warfare simulators. Its capabilities include RF transceiver system design, digital design and large-scale software development.

Contact

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