

**Fast Tester of Radiation Performance
and of Unwanted Radiation**



WIRELESS TEST SYSTEM WTS-80

Testing a wireless device on your bench

We offer a small benchtop test system which is useful for development and optimizing spurious emissions and RF antenna performance. A shielded environment is required for these tests.

- The main competitive advantage of our WTS-80 is about the six patented circular broadband antennas which cover all six main directions of radiation without the need for moving the device while testing.
- This is useful for a large number of tests within a frequency range between 300 MHz and 13 GHz.
- The shielded box is small enough to pass through every standard office door (80 cm), is equipped with a DUT support, and a filtered 230 V power supply.
- The whole system is made in Germany and we also provide tailored switching units for using high pass filters for measuring harmonics of e.g. IoT devices using LTE, NB-IoT, Cat M1 or GPRS technology.

Datasheet

- Box:** 75 cm cube, 2 mm steel
Size: 78 cm x 93 cm x 73 cm
Weight: approx. 90 kg
Absorber: 20 cm (8") by Albatross
Frequency range: 300 MHz – 13 GHz
Shielding: 80 dB
Access: 7 x RF N-feed through plus one tube 2.5 cm (1") diameter (for e.g. supporting a USB or Ethernet connection)
Filter: Two lines, 0 to 250 VAC, 600 DC, 5 A (fuse)
DUT max size: 27 cm x 33 cm x 14 cm
Antennas:
- 1 communication antenna, broadband: 700 MHz – 6 GHz
 - 6 special patented circular polarized (RHCP) broadband antennas for approx. 300 MHz – 15 GHz

Available Accessories

- Low noise amplifier 3.3 – 13 GHz, 27 dB.
- Special Box support on wheels (78 cm x 80 cm x 41 cm).
- Switching unit for connecting one out of six antennas with e.g. a spectrum analyzer.
- Special software for reading the spectrum analyzer results, and controlling the above mentioned switching unit as well as base station simulators.

Main Applications

- Extreme fast measuring of unwanted spurious emissions of all kinds of wireless devices. See example.
- Gathering wanted radiation and calculating total radiated power (TRP). Based on this, you can determine antenna efficiencies.
- Sensitivity measurements (TRS) are also supported.

