Qosmotec

software solutions gmbh

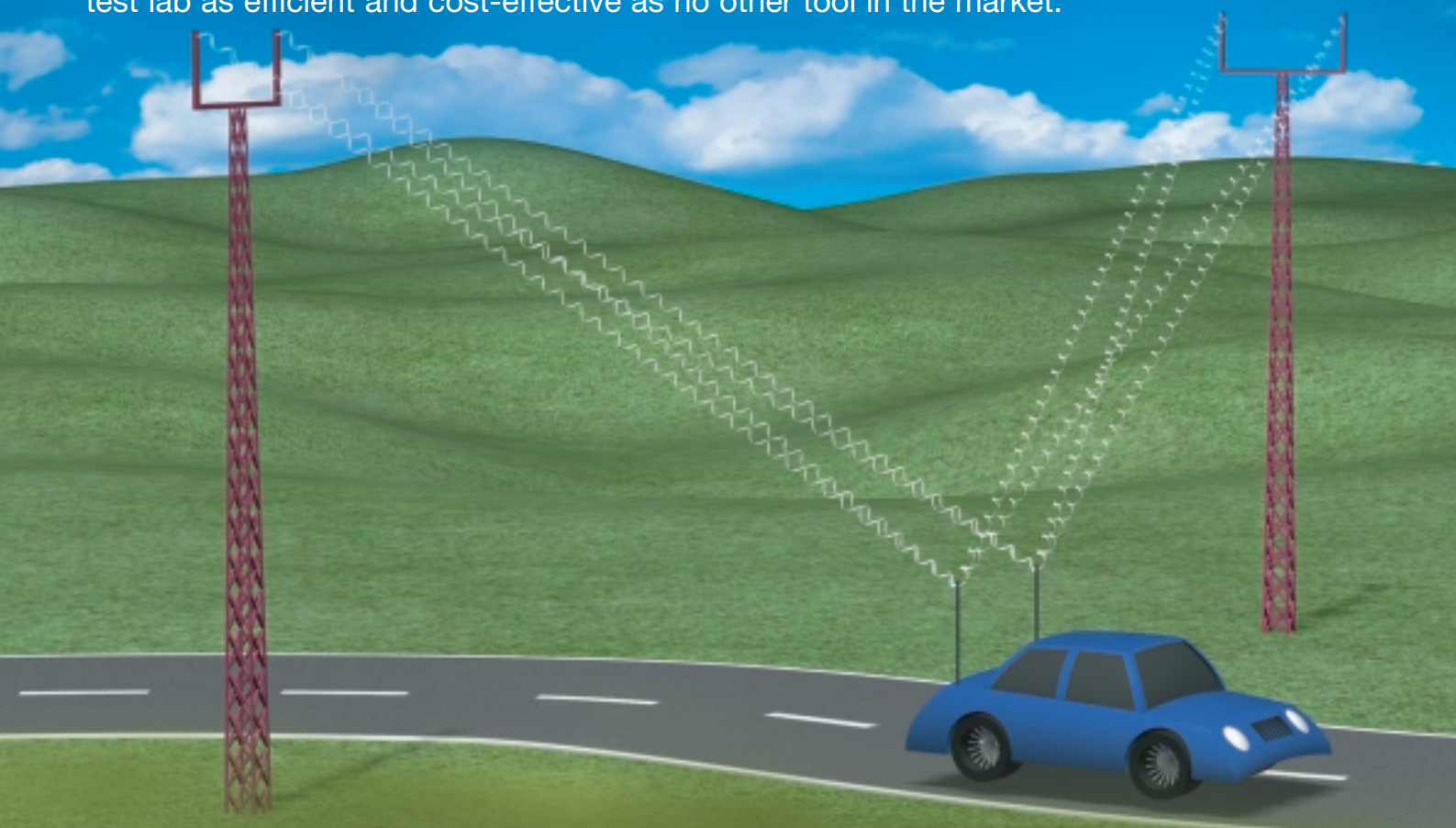
Dynamic MIMO Tester

MIMO transmission between multiple sender and receiver antennas is completely characterized by

- amplitude &
- phase

of the individual signal paths.

The Qosmotec Dynamic MIMO Tester emulates these conditions in the test lab as efficient and cost-effective as no other tool in the market.



Simulate dynamic handover scenarios with variable geometry, including antenna diversity, beam-forming and fast fading.

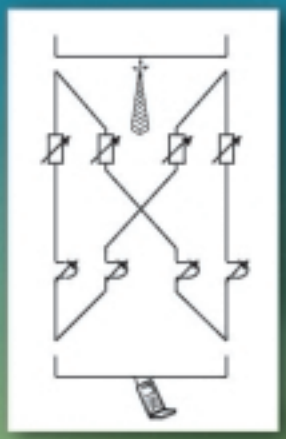
- All SISO and MIMO configurations (1x1,1x2, 2x2, 2x4, 4x4, etc) supported
- Covering all LTE frequencies
- Bidirectional, ultra wideband
  - ➪ LTE-Advanced compatible and future proof

Qosmotec
software solutions gmbh

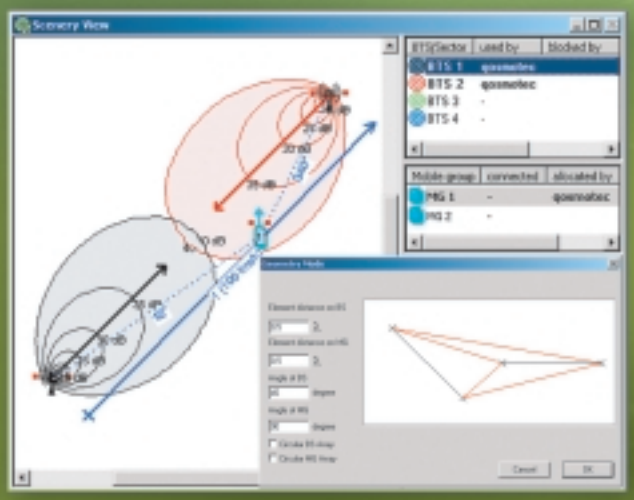
Technical Data:

Frequency Range:	500 MHz – 3 GHz 500 MHz – 6 GHz
Attenuators:	0 – 95 dB, 0.5 dB steps ± 0.8 dB or 2.5 % of set value
Phase Shifters:	0 – 254°, 2° steps @ 1 GHz ± 5° or 4 % of set value
Connectors:	N(f)
Impedance:	50 Ω
Control Speed:	min. 4000 actions/sec real-time, parallel settings
Power Supply:	100 – 240 V, AC
CPU:	Intel®Atom™
Interface:	Ethernet RJ45
Size:	19`` mountable, 6 HE
Construction:	fully meshed matrix customizable with 2 to 8 inputs and outputs

Double 4x4 MIMO tester



Connection scheme (2x2 MIMO)



Intuitive Graphical User Interface

based on

Easy-to-use graphical software approach:

Emulate radio and handover scenarios in SISO and MIMO environments based on drive tests within a virtual landscape.

Automatic & unattended 24/7 test execution

Amplitude simulation based on

- Distance
- Frequency
- Antenna pattern and orientation
- Fast Fading (Rice, Rayleigh)
- Shadowing

Phase simulation based on

- Frequency
- Antenna element orientation
- Antenna element spacing

Qosmotec Software Solutions GmbH
Schloss-Rahe-Straße 15
D-52072 Aachen
Germany

phone: +49 (0) 241 879 75-0
fax: +49 (0) 241 879 75-15

email: info@qosmotec.com
web: www.qosmotec.com