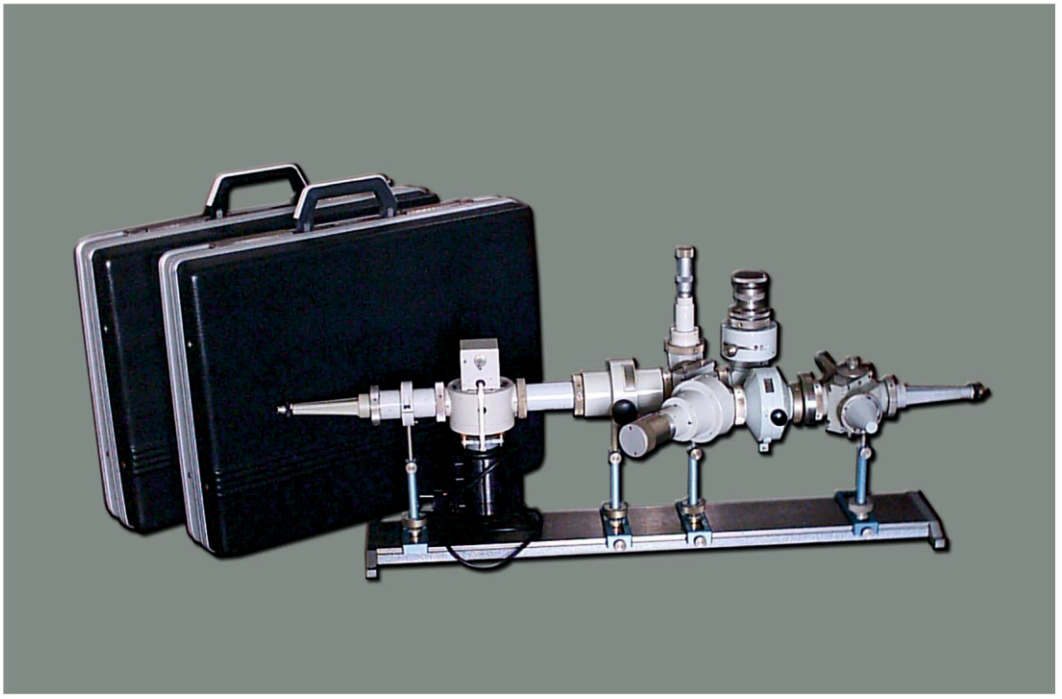
STAND FOR QUASIOPTICAL RESEARCHES SQR-0.14



The External View of the Stand

Areas of Application

The Stand for quasioptical researches SQR–0.14 (Stand) is intended for demonstration of quasioptical measuring methods in THz frequency region and training of the university students and researchers specializing in radiophysics.

Specification

The SQR-0.14 has been made on the base of hollow dielectric beam-guide with circular cross-section 20 mm in diameter. Working frequency - 0.14 THz. The Stand provides the next measurements: reflection factor modulus, phase and wavelength by the Michelson interferometer method; insertion attenuation (losses) by a substitution method; polarization diagram by rotary polarization-analyzer method; dependence of the mirror reflection factor modulus from incidence angle of a wave reflected from flat surface of a sample.

Advantages

The set has no analogues in Ukraine and abroad.

Stage of Development

IRL7, TRL8.
The manufacturing, delivering, warranty and training services are included.

IPR Protection

IPR1, IPR3

Contacts

Sergiy V. Mizrakhy; O.Ya.Usikov Institute of Radiophysics and Electronics, National Academy of Sciences of Ukraine; 380-57-7203335; smizrakhy@ire.kharkov.ua