

ST-2007 Microwave Labkit



Experiments: To prove Bragg's Law using Microwave Diffraction Spectrometer

Microwave radiations are mono-chromatic, Plane Polarised and Coherent and they behave like waves. Many laboratory experiments in optics can be performed easily with simple microwave equipments, Reflection, Refraction and polarization including to prove Bragg's Law can be performed with this microwave Diffraction Spectrometer.

It consists of a Goniometer with one stationary and other rotatable arms. Each of these arms has to adjustable stands. These stands holds the transmitting horn on one end and the receiver horn on the other.

The Polyfoam containing the steel balls structure is kept in the center. A 0-360° found scale with a pointers is provided to read the position of rotatable arm.

ST-2007 Compact Microwave Labkit consists of the following Components and Instruments :

1. Klystron Power Supply	ST-KP-151	1 No.
2. Klystron Mount	ST-X-2051	1 "
3. Klystron Tube	2K25 or K27	1 "
4. Variable Attenuator	ST-X-5020	1 "

5. Pyramidal Waveguide Horn	ST-X-5041	2 "
6. Detector Mount	ST-X- 4051	1 "
7. Mechanical Turn Table with crystal Structure i.e. Diffraction Spectrometer	ST-X-851	1"
8. Waveguide Stands	ST-X-5035	2 "
9. Cooling Fan	1 "
10. Direct Reading Frequency Meter	ST-X-4155	1 "
11. Isolator	ST-X-6021	1 "
12. Coaxial to Waveguide Adapter	ST-X-7061	1 "
13. Coaxial Cable N to N	ST-C-105	1 "
14. VSWR Meter	ST-VS-411	1 "

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