

Powder X-Ray Diffractometer



The *PANalytical X'Pert3 Powder X-Ray Diffractometer* is capable of performing phase analyses on a wide variety of powders and solids. Additionally, crystallographic analysis on a variety of organic and inorganic samples, including the investigation of phases, shape, thin films characterisation (GI-XRD), and particle size distributions (SAXS) of nano-sized materials is also possible. The major features of the instrument are given below.

- ✚ The X-ray generator produce Cu-K α radiation with a max. tube excitation of 50kV, 50mA. The goniometer is a vertically mounted and $\theta - \theta$ type only with following features.
- ✚ Angular accuracy = $\pm 0.0025^\circ$.
- ✚ Angular reproducibility = $\pm 0.0001^\circ$. Min step size $\pm 0.001^\circ$
- ✚ For improved results, the machine is equipped with a Bragg-Brentano HD mirror and a PIXel1D detector.

Contact details

- Instrument In-Charge: Dr. Hanas T
- Email ID: xrdasmin@nitc.ac.in
- Contact No: [91-8089496742](tel:91-8089496742)

Analysis Charges