

EMPYREAN – THE WORLD OF X-RAY DIFFRACTION IS NO LONGER FLAT

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Empyrean is PANalytical's new X-ray diffractometer. It allows the analysis of powders, thin films, nano-materials and solid objects on one platform. Users can easily optimize the optical configuration for each of these samples. In developing Empyrean, PANalytical has redesigned all key parts of the XRD platform from the ground up: the enclosure, the X-ray source, the goniometer, the sample stages and the detection system are all brand new.

One of the key elements in Empyrean is the PIXcel^{3D} detector. Not only is this PANalytical's first two-dimensional detector; it is also the only 2D detector that also offers highest-quality 0D and 1D data collection modes, and on top of that a unique 3D tomographic mode which allows visualization and analysis of the inner structure of your sample. With the introduction of Empyrean, the world of X-ray diffraction is really no longer flat.