

D8 ADVANCE Plus: The newest member of the D8 Family of solutions

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Materials research experiments are typically delegated to specialized instruments with limited functionality for traditional powder techniques. The D8 ADVANCE features a modular design supporting both dedicated and multifunctional forms. The latest addition to the D8 family of diffractometers, the D8 ADVANCE Plus, includes features specifically designed to support materials research applications such as Grazing Incidence Diffraction (GID), X-Ray Reflectometry (XRR), High Resolution X-Ray Diffraction (HRXRD) and Texture analysis.

These features include the TRIO primary optic, Compact Cradle^{plus} and a large portfolio of detector technologies. The TRIO primary optic includes a diverse set of optical beam paths available at the push of a button including a motorized divergence slit, parallel mirror and high resolution 2 bounce monochromator. The D8 ADVANCE Plus is compatible with a wide range of interchangeable sample stages including the new Compact Cradle^{plus}, delivering four circle functionality and a unique integrated sample vacuum system. The LYNXEYE XE-T, with built in digital secondary monochromator technology, and PILATUS 3R 100K-A, featuring Hybrid Photon Counting (HPC), bring uncompromised detection capability to the D8 ADVANCE Family.

The D8 ADVANCE Plus embodies the modern materials research method of combining a diverse set of tools into a single instrument, supporting cross collaboration of researchers in the ever expanding multifunctional lab space.

