metaljet

High-end data collection system

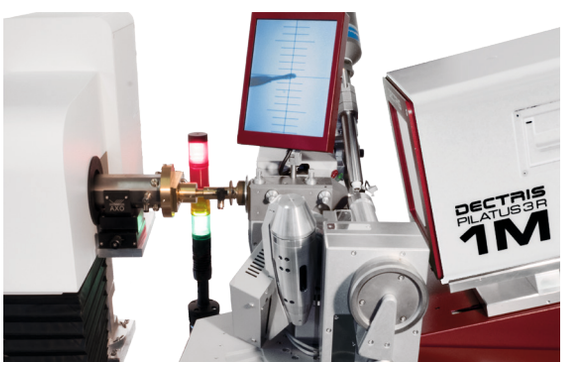
excillum MetalJet D2+ 250W

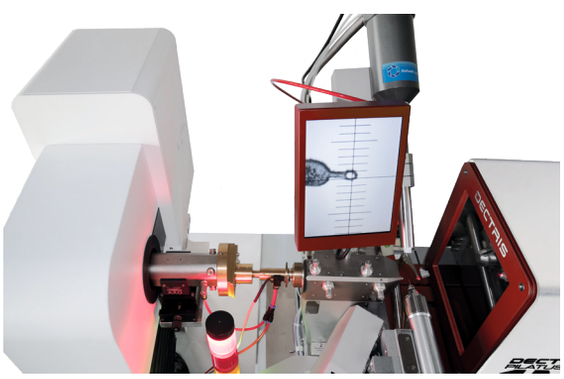
DECTRIS EIGER2 R 4M or PILATUS3 R 1M

mardtb goniostat

metaljet High-End Data Collection System

The MetalJet technology invented by Excillum replaces the traditional solid anode of X-ray generators with a jet of liquid metal. Thereby the achievable power-level is no longer limited by when the anode melts. It's already molten! With the MetalJet D2+ X-ray source you can put up to 250W into a focal spot of size 20 µm on the anode and achieve a brilliance that is only beaten by modern synchrotron beamlines.
The EIGER2 R 4M or PILATUS3 R 1M hybrid photon counting detectors mounted on a **mardtb** goniostat make a perfect match for the ultimate high-end data collection system for in-house use. You are looking at the most advanced data collection system that can be used for many X-ray applications be it single crystal crystallography of proteins and small molecules, powder diffraction, texture analysis or small angle scattering. The large detection surfaces of the EIGER2 R 4M or PILATUS3 R 1M detectors allow for collecting highly redundant data up to atomic resolution of 1.0 Å.





SPECIFICATIONS

X-ray sources:	• MetalJet D2+ 70kV, 250W, Ga-rich alloy for photons with 9.2 keV (1.348 Å) • MetalJet C2, 70kV, 250W, entry-level without electron optics
Detectors:	• Dectris EIGER2 R 4M detector, continuous read-out with 0 µsec dead time, up to 20 frames/second, 155 x 162 mm active area, 75 µm pixel size, 2 x 4 modules • Dectris PILATUS3 R 1M detector, 7 msec read-out time, up to 5 frames/second, 169 x 179 mm active area, 172 µm pixel size, 2 x 5 modules
Goniostat:	**mardtb** 2-axis multi-purpose goniostat with automatic X-ray beam alignment and continuous monitoring of the primary beam intensity, distance translation stage from 40 to 390 mm, 2-theta stage from 0° to 30°.
Options:	• Built-in motorized goniometer head or **easymount** extension for **mardtb** • **marxps** crystallization plate scanner extension for **mardtb** • Experimental table and radiation enclosure

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