

## DECTRIS EIGER2 R 4M on **mardtb** goniostat



## **mar4** Ultra Fast Data Collection System

You love it at synchrotrons and now you can have it at home, too. The EIGER2 R 4M hybrid photon counting detector mounted on a **marfith** goniostat makes the perfect choice for a world class ultra fast data collection system highly suitable for in-house use. For a true alternative to a synchrotron, combine it with an Excillum MetalJet X-ray source, and 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. Of course, the **marfith** will also fit any other rotating anode or sealed-tube micro-focus generator based system like the **marfith**<sup>3G</sup>.

Thanks to the large detection surface of  $155 \times 162$  mm the EIGER2 R 4M detector is capable of collecting highly redundant data without 2-theta offsets up to a resolution of 1.4 Å (CuK $\alpha$ ). If you need an even larger solid angle, the built-in 2-theta arm of the **marginal** goniostat with a range of 30° extends the solid angle to 100° in 2-theta at a minimum distance of approx. 35 mm. The small pixelsize of only 75 µm gives you perfect separation of spots even at small distances or with very large unit cells.



Specifications	
Detector:	Dectris EIGER2 R 4M Hybrid Photon Counting detector, continuous read-out with 0 $\mu$ sec dead time, up to 20 frames/second, 155 x 162 mm active area, 75 $\mu$ m pixel size, 2 x 4 modules
Goniostat:	<b>mardtb</b> 2-axis multi-purpose goniostat with automatic X-ray beam alignment and continuous monitoring of the primary beam intensity, distance translation stage from 35 to 390 mm, 2-theta stage from 0° to 30°
Options:	<ul> <li>Built-in motorized goniometer head or <i>easymount</i> extension for <i>mardtb</i></li> <li>Complete <i>metaljet</i> data collection system with Excillum MetalJet D2+ source, cryo-cooler, <i>marLiN<sub>2</sub></i> LN<sub>2</sub> refill system, experimental table and enclosure</li> <li><i>marµX</i><sup>3G</sup> microfocus generator instead of Excillum MetalJet</li> </ul>

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