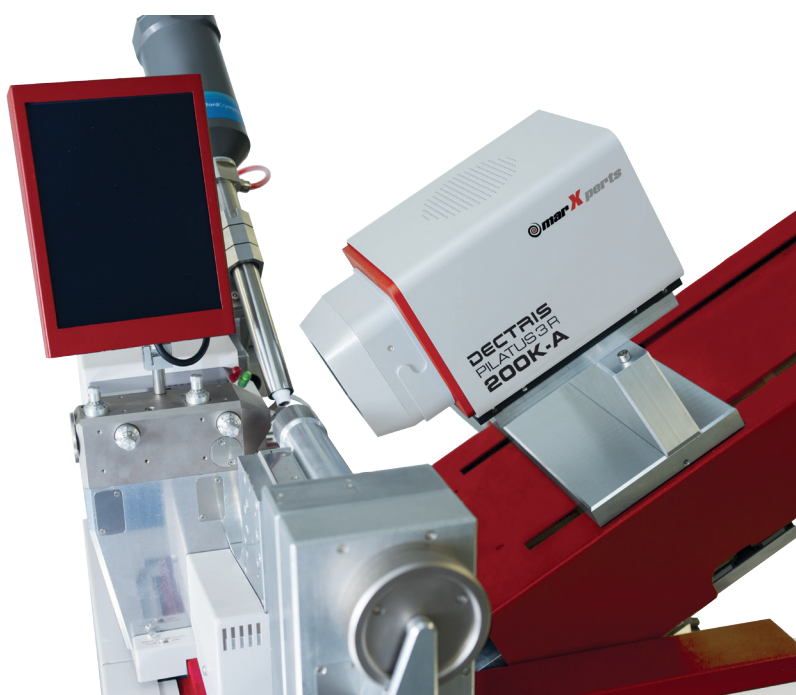# mar200K

Dectris Pilatus3 R *200K*-A Detector
on *mardtb* goniostat

mar200K Fast Screening System

Take a Dectris Pilatus3 R 200K-A hybrid photon counting detector and a *mardtb* goniostat and you get a world class ultra fast crystal screening and data collection system. The laboratory series of the Pilatus3 detector delivers up to 20 frames/second. Combined with a *marµX*²ᴳ micro-focus X-ray generator or a metal jet or a rotating anode generator you are looking at a state-of-the-art 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 built-in 2-theta arm of the *mardtb* goniostat allows for a solid angle of up to 72° in 2-theta at a minimum distance of 21 mm. If this is not sufficient, there always is a choice of using the larger Pilatus3 R 300K or 1M detectors with active areas of 84 x 107 mm and 169 x 180 mm, respectively. And, with a special mounting plate, one can use the Pilatus3 R 200K-A along with a *mar345* Image Plate Detector with its huge active area, a detector that still sets standards in the home lab.

SPECIFICATIONS

Detector:	Dectris Pilatus3 R 200K-A Hybrid Photon Counting detector, 7 msec read-out time, up to 20 frames/second, 83 x 70 mm active area, 0.172 mm pixel size, air-cooled
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 21 to 340 mm, 2-theta stage from 0° to 30°
Options:	• Mounting plate for mounting Dectris detector in front of *mar345* image plate detector • Dectris Pilatus3 R 300K-A or 1M or Eiger 1M instead of 200K-A detector • Built-in motorized goniometer head or *easymount* extension for *mardtb* • Complete *marµX*²ᴳ X-ray generator and data collection system with cryo-cooler, experimental table and enclosure

marXperts