

mar*dtb*

Mobile app for
“desktop beamline”
goniostat



mardtb - mobile app for “desktop beamline” goniostat

The **mardtb** is a highly versatile goniometer system for general use in X-ray crystallography. Due to an autonomous control system, it can accommodate any X-ray detector, e.g. the **mar345** image plate or the family of PILATUS3 and EIGER pixel-detectors produced by Dectris. The most striking feature is its high degree of motorization. This includes motors for aligning the entire instrument automatically with the X-ray beam without user intervention.

Now, the **mardtb** becomes part of the „Internet of Things“ that can be monitored and controlled from mobile apps available for Android and iOS as well as from a web interface.



FUNCTIONS (SELECTION)

A	Goniometer: experimental shutter operation, φ -axis rotation, translation of detector with respect to sample, φ -axis swing (chi-axis), beamstop move in/out
B	Collimator: horizontal & vertical slits for ion. chambers 1 & 2
C	Crystal alignment: x,y,z-translation of goniometer head and φ -axis rotation
D	X-ray history: history of intensity readings in ionization chambers 1 & 2
E	Optimize beam: automatic alignment of goniostat with primary beam

AVAILABILITY:

The mobile interface is shipped with new **mardtb** goniostat systems. The mobile app is available from the Google Play Store (iOS app coming soon) free of charge.

Existing owners of a **mardtb** goniostat systems may purchase an upgrade package consisting of:

- controller interface box
- software updates for 1 year
- suitable tablet with preinstalled software

Ask for a quotation!