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Eiger 16M integration

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An Eiger 16M detector has been integrated with a new goniometer on the micromolecular beamline at the Australian Synchrotron. The Eiger detector is configured and controlled through EPICS areaDetector. The goniometer is driven using a linear servo amplifier to provide the smoothest possible motion. An oscillation program that coordinates the rotation and shutter has been written to expose user samples. A hardware trigger is provided to the Eiger 16M by the motor control system. Control of the Eiger 16M cover, and monitoring of the necessary N₂ supply is achieved by PLC. Sample exposure time has dropped from an average of 15 minutes using the ADSC 335r, down to 1 minute on the Eiger 16M, thereby significantly increasing the science output of the beamline.

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