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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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