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CamServer: Data Processing Pipelines @ SwissFEL

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CamServer is a Python package currently used at SwissFEL for running data processing pipelines. The system is deployed in a cluster of servers and handles 100Hz high-resolution camera images and other generic ZMQ streams. It can also align different data streams and images before processing. Standard processing pipelines are available out of the box (e.g. calculation of standard beam metrics), but users can also upload their custom scripts. The output data streams are used for a variety of purposes: transient and permanent data storage, image visualisation, DAQ applications and beamline specific tools. The system is managed through a REST API using either a management GUI or a Python client library. Current developments include adding support for detector data, pushing logs and metrics to Elastic and creating an IDE to simplify pipeline development.

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