Pilatus detector

One should flush the detector with dry $N_{\rm 2}$, about 151/h.

• Login:

Turn on PC User: det PW: Pilatus2

- Switch on power supply detector: Switch on power supply, switch on detector.
- Via Ethernet: ssh –l det has.....
- Shell-Konsole:

>cd p2_det >runtvx

runtvx starts camserver and TVX in separate windows and initialize the detector.

• First you have to select the energy! (see next page)

The tvx server is by default disconnected so that the detector can be controlled by the tango server!

xxxxx = image number
(300K or 1M)

In Camserver has.....

• First you have to select the energy!

setthreshold _____ 'half of the working energy in eV'

highg for (2000-9000)eV midg for (4000-11000)eV lowg for (6000-17000)eV

• Frames:

* ni xxx	xxx= number of images to record.		
* expt xxx	xxx= exposure time in seconds.	l	expp – expt must be
* expp xxx	xxx= exposure period in seconds.	ſ	≥ 0.003 seconds.
* expo test.tif	test = name of image.		

• External Control:

The Lemo – connector "*EXT IN*" on the back side of the detector module has to be connected. The level must swing to 3V.

In Camserver

For external enable:

* NImages xxx	xxx= number of images to record.
* ExtEnable test.tif	test = name of image.

The counter is enabled whenever the external pulse is high.

For external multi trigger:

* NImages xxx	xxx= number of images to record
* ExpTime tt	tt = exposure time
* ExtMTrigger filename.tif	filename = name of image

Each external pulse (rising edge) starts the internal timer.

For external trigger:

* NImages xxx	xxx= number of images to record
* ExpTime tt	tt = exposure time
* ExpPeriod tt	tt = exposure period
* ExtTrigger filename.tif	filename = name of image

The external pulse (rising edge) starts the internal sequence.

Each of the above modes can be used with:

* NexppFrame tt tt = number of exposures per frame

This parameter controls summation of exposures within the pixel (useful when triggering on a fast, repeating event).