

ePix10k Q.1 - old

Identification Details and Hardware Changelog

Nominal Operating Voltages and Currents

Ch.	Line	V	I

Performance Measures

Experiment=detdaq18, Run=521 (Jan 28, 2020)

Pedestal Summary

Method: Dark environment, nominal operation, collect 1000 frames @120Hz. Generate per-pixel mean and standard deviation over 1000 frames. Pixels more than 3 sigma out of detector-wide mean are flagged bad. Files archived as xxxx.

Map of pedestal non-conforming pixels for all gain modes [here](#).

Gain Mode	Mean Pedestal Value (ADU)	Number of NCP	Pixels Map, Histogram
FH	3215 ± 165	23	Graphs
FM	3157 ± 165	35	Graphs
FL	3157 ± 164	54	Graphs
AHL	3216 ± 165	23	Graphs
AML	3175 ± 165	36	Graphs

Noise Summary

Map of noise non-conforming pixels for all gain modes [here](#).

Gain Mode	Variation (ADU)	Number of NCP	Pixels Map, Histogram
FH	6	14542	Graphs
FM	2	3135	Graphs
FL	2	1397	Graphs
AHL	7	6377	Graphs
AML	3	5892	Graphs

Gain and uniformity (photon source)

Map of gain non-conforming pixels for all gain modes [here](#).

Gain Mode	Number of NCP
FH	0
FM	0
FL	480
AHL	16
AML	9

Linearity (signal injection)

Thermal measurements (all thermometers)

Experiment History

Experiment	Hutch	Shifts	Date Deployed