

ePix10k Q.0 - old

Identification Details and Hardware Changelog

Nominal Operating Voltages and Currents

Ch.	Line	V	I

Performance Measures

Experiment=detdaq18, Run=440 (Dec 1, 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	3113 ± 185	137	Graphs
FM	3081 ± 177	141	Graphs
FL	3066 ± 174	141	Graphs
AHL	3119 ± 181	138	Graphs
AML	3085 ± 177	140	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	105763	Graphs
FM	3	219614	Graphs
FL	3	246264	Graphs
AHL	7	44987	Graphs
AML	3	216960	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	38
AML	10

Linearity (signal injection)

Thermal measurements (all thermometers)

Experiment History

Experiment	Hutch	Shifts	Date Deployed