

Finger Lakes Instrumentation Quality Assurance Test Summary
FLI Library Version: Software Development Library for Windows 1.98
FLITest_SCX Version: 3.31 SCX, Tester SN: 4

Serial Number: PL0394113
Model: PROLINE PL4240
Sensor designation: CCD42-40-1-368 12281-06-09
Sensor Type: Single Channel
Lab ambient temp: 23.0
CCD Test Temp: -30

Basic Functions

CCD temp sensor: OK.
Base temp sensor: OK.

CCD Chamber

Desiccant installed: OK.
Purged: OK.
Noble Gas Back-fill: OK.
Window clean on both surfaces: OK.
CCD free of dust: Yes

Performance

Cooler can achieve dT greater than: -45.0C (measured -58.9)
Cooler is rate limited: Yes (-5.01 C/min)
Cooler test time: 952.56
Cooler Tests: Pass
Noise distribution is random: Yes
Bias frame histogram is Gaussian: Yes
Standard test target appearance OK: Yes

Specific Tests

Amplifier Glow Test: Pass
Amplifier Glow Auxiliary Test: Pass
Power Supply voltage: 11.7
AUX Connector Pin 4 voltage: -0.0
Camera Current: 1014.1 mA (Pass)
Cooler Current: 3799.3 mA (Pass)
External Trigger: Working
AUX Pin 1: Working OK.
AUX Pin 2: Working OK.
AUX Pin 3: Working OK.

Gain and Noise Measurement

2.0 MHz Main

Conversion factor (gain): 1.33
Bias: 945.5
Readout noise: 13.8 (e-)
Saturation: 85880.7 (e-)
Horizontal Binning Test: Pass
Bias Drift Test: Pass
100s Dark Current Growth: 18.4 ADU (Pass) @ -30.0 C
Maximum Linearity Error: 0.057 (%) (Pass)

500KHz Main

Conversion factor (gain): 1.34
Bias: 987.8
Readout noise: 8.7 (e-)
Saturation: 86790.8 (e-)
Horizontal Binning Test: Pass
Bias Drift Test: Pass
100s Dark Current Growth: 19.5 ADU (Pass) @ -30.0 C
Maximum Linearity Error: 0.044 (%) (Pass)

Camera Passed.

 A blue rectangular stamp with a checkmark in a box on the left and the word "APPROVED" in a bold, sans-serif font on the right.