

## FLI SOFTWARE INSTALLATION AND DOCUMENTATION

### SOFTWARE INSTALLATION

Please go to the FLI Web Site ([www.flicamera.com](http://www.flicamera.com)):

1. Select the “**Support**” tab.
2. Download and install the “**FLI Software Installation Kit**”.

### DOCUMENTATION

Please go to the FLI Web Site ([www.flicamera.com](http://www.flicamera.com)):

1. Select the “**Support**” tab.
2. Select the link for your camera, filter wheel or focuser.

**NOTE:** Please ensure that you are selecting the appropriate version for your computer.



**Customer Feedback Form**

Thank you for your participation in this survey for Finger Lakes Instrumentation. As we strive for continuous improvement, your response will help us to better serve you. For each of the statements below, please use the following scale to rate your experience with FLI. Your response will remain anonymous unless you choose to provide your contact information below.

	1	2	3	4	5	6	7
	Strongly Agree	Agree	Somewhat Agree	Not Applicable	Somewhat Disagree	Disagree	Strongly Disagree
No.	Statement						Rating
1	FLI was responsive to my product inquiries. (E-mail, phone, etc.)						
2	The FLI website <a href="http://www.flicamera.com">www.flicamera.com</a> meets my needs.						
3	FLI provided useful/accurate information about their products and services.						
4	The ordering process was smooth and error free.						
5	The lead time quoted for my product(s) was satisfactory.						
6	My order was delivered on time.						
7	The delivered item(s) correctly matched my order.						
8	The equipment met my expectations.						
9	The installation process of my equipment was easy.						
10	I am satisfied with my overall experience with FLI.						

Please feel free to provide any specific comments or clarifications on the above questions here. Additionally, if you responded with a score of "5" or greater, we would greatly appreciate any additional information that you provide, so that Finger Lakes Instrumentation can more clearly understand your concerns.

Are there any changes you would recommend Finger Lakes Instrumentation make to improve your satisfaction with our products and/or services?

**OPTIONAL:** Providing your contact information will allow Finger Lakes Instrumentation to follow up with you to address any concerns that you have raised.

Name: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  
 Title: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
 Company: \_\_\_\_\_

**Please send this completed form by mail in the enclosed envelope,  
 e-mail to [sales@flicamera.com](mailto:sales@flicamera.com), or fax to 585-624-9879.**

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: 8

Serial Number: PL0932515  
Model: PROLINE PL16803  
Sensor designation: 4H2054 10560  
Sensor Type: Single Channel  
Lab ambient temp: 22.0  
CCD Test Temp: -25

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 -53.4)  
Cooler is rate limited: Yes (-9.38 C/min)  
Cooler test time: 720.00  
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: 11.9  
AUX Connector Pin 4 voltage: -0.0  
Camera Current: 1088.9 mA (Pass)  
Cooler Current: 3830.5 mA (Pass)  
External Trigger: Working  
AUX Pin 1: Working OK.  
AUX Pin 2: Working OK.  
AUX Pin 3: Working OK.

Gain and Noise Measurement

8 MHz Main

Conversion factor (gain): 1.44  
Bias: 1001.2  
Readout noise: 14.8 (e-)  
Saturation: 92637.3 (e-)  
Horizontal Binning Test: Pass  
Bias Drift Test: Pass  
100s Dark Current Growth: 0.8 ADU (Pass) @ -25.0 C  
Maximum Linearity Error: 0.030 (%) (Pass)

1 MHz Main

Conversion factor (gain): 1.46  
Bias: 991.3  
Readout noise: 9.4 (e-)  
Saturation: 94283.9 (e-)  
Horizontal Binning Test: Pass  
Bias Drift Test: Pass  
100s Dark Current Growth: 0.9 ADU (Pass) @ -25.0 C  
Maximum Linearity Error: 0.143 (%) (Pass)

Camera Passed.