

Camera Specifications – PL09000, ML09000, PL16803, ML16803

ProLine PL09000 / MicroLine ML09000

Camera Performance	
PC Interface	USB 2.0
Maximum cable length	5 meters between hubs; 5 hubs maximum
Digital resolution	16 bits at all speeds
Read Noise	8 – 9 electrons RMS typical
Cooling ProLine	Thermoelectric cooler with forced air: 55-60° C below ambient temperature Optional LC cooling: 65-70° C below ambient temperature
Cooling MicroLine	Thermoelectric cooler with forced air: 45° C below ambient temperature Optional LC cooling: 50-55° C below ambient temperature
Dark Current (nom.)	1 e-/pixel/sec (-30° C)
ProLine Camera Head	6.2" width x 6.2" depth x 4.2" height
MicroLine Camera Head	5.25" diameter head x 3.75" square body x 4.75 height
Mounting	One ½-20, Two M5, Nose piece v-groove. Optional Nikon Mount
Back focal distance ProLine	Standard: 1.19" (may be adjusted to suit customers requirements)
Back focal distance MicroLine	Standard: 0.983" (may be adjusted to suit customers requirements)
Operating Environment	Temperature: -25° to 35°C. Relative humidity 10 to 90% noncondensing
Shutter	65mm Uniblitz shutter / MTBF = 1 million cycles
Remote Triggering	Standard via AUX connection
CCD Specifications	
CCD	KAF-09000
Array Size	3056 x 3056
Pixel size	12 micron
Linear Full Well	110,000 e-
Dynamic Range	84 dB

ProLine PL16803 / MicroLine ML16803

Camera Performance	
PC Interface	USB 2.0
Maximum cable length	5 meters between hubs; 5 hubs maximum
Digital resolution	16 bits at all speeds
Read Noise	9-11 electrons RMS typical
Cooling ProLine	Thermoelectric cooler with forced air: 55-60° C below ambient temperature Optional LC cooling: 65-70° C below ambient temperature
Cooling MicroLine	Thermoelectric cooler with forced air: 45° C below ambient temperature Optional LC cooling: 50-55° C below ambient temperature
Dark Current (nom.)	1 e-/pixel/sec (-30° C)
ProLine Camera Head	6.2" width x 6.2" depth x 4.2" height
MicroLine Camera Head	5.25" diameter head x 3.75" square body x 4.75 height
Mounting	One ½-20, Two M5, Nose piece v-groove. Optional Nikon Mount
Back focal distance ProLine	Standard: 1.19" (may be adjusted to suit customers requirements)
Back focal distance MicroLine	Standard: 0.983" (may be adjusted to suit customers requirements)
Operating Environment	Temperature: -25° to 35°C. Relative humidity 10 to 90% noncondensing
Shutter	65mm Uniblitz shutter / MTBF = 1 million cycles
Remote Triggering	Standard via AUX connection
CCD Specifications	
CCD	KAF-16803
Array Size	4096 x 4096
Pixel size	9 micron
Linear Full Well	100K electrons
Dynamic Range	76 dB

Please note: This is a partial listing of FLI camera models.

Camera Specifications – PL4240 and PL3041 (BroadBand or UV)

ProLine PL4240

Camera Performance	
PC Interface	USB 2.0
Maximum cable length	5 meters between hubs; 5 hubs maximum
Digital resolution	16 bits at all speeds
Read Noise	8 – 11 electrons RMS typical (low download speed)
Cooling	Thermoelectric cooler with forced air: 55-60° C below ambient temperature Optional LC cooling: 65-70° C below ambient temperature
Dark Current (nom.)	<1 e-/pixel/sec (-30° C)
Camera Head	6.2" width x 6.2" depth x 4.2" height
Mounting	One ½-20, Two M5, Nose piece v-grove. Optional Nikon Mount
Back focal distance	Standard: 1.19" (may be adjusted to suit customers requirements)
Operating Environment	Temperature: -25° to 35°C. Relative humidity 10 to 90% noncondensing
Shutter	65mm Uniblitz shutter / MTBF = 1 million cycles
Remote Triggering	Standard via AUX connection
CCD Specifications	
CCD	E2V CCD42-40-0-368 back illuminated
Array Size	2048 x 2048
Pixel size	13.5 micron
Linear Full Well	100,000 e-
Dynamic Range	82 dB

ProLine PL3041

Camera Performance	
PC Interface	USB 2.0
Maximum cable length	5 meters between hubs; 5 hubs maximum
Digital resolution	16 bits at all speeds
Read Noise	12-14 electrons RMS typical @ 1 MHz
Cooling	Thermoelectric cooler with forced air: 55-60° C below ambient temperature Optional LC cooling: 65-70° C below ambient temperature
Dark Current (nom.)	1 e-/pixel/sec (-30° C)
Camera Head	6.2" width x 6.2" depth x 4.2" height
Mounting	One ½-20, Two M5, Nose piece v-grove. Optional Nikon Mount
Back focal distance	Standard: 1.19" (may be adjusted to suit customers requirements)
Operating Environment	Temperature: -25° to 35°C. Relative humidity 10 to 90% noncondensing
Shutter	65mm Uniblitz shutter / MTBF = 1 million cycles
Remote Triggering	Standard via AUX connection
CCD Specifications	
CCD	Fairchild Imaging CCD3041B1
Sensor Coatings	Broad Band and UV Enhanced Available
Array Size	2048 x 2048
Pixel size	15 micron
Linear Full Well	100,000 e-
Dynamic Range	82 dB

Please note: This is a partial listing of FLI camera models.

Fairchild Imaging CCD3041 QE and Readout Noise

