PixeLINK®
MICROSCOPY CAMERAS

PL-E424CU (2400 x 1800) 4.0 MP | **PL-E425CU** (2592 x 1944) 5.0 MP

The **PL-E420** series of Microscopy Cameras are high performance microscopy cameras with resolutions of **4.0** and **5.0** MP. These cameras are designed for a broad range of microscopy applications, and use an Aptina CMOS rolling shutter (progressive scan) sensor.

The CMOS sensor architecture provides superior anti-blooming making the **PL-E420** series of micropscopy cameras an excellent choice for imaging highly reflective objects or scenes with intense illumination. The PL-E420 camera family is equipped with a standard USB 2.0 interface, and ships with the necessary USB cable to connect the camera to your computer.

Key Features

- PixeLINK µScope Essential included
- High quality Aptina sensor
- Broad range of applications
- Compact size
- Total camera control via software
- Ships with cable for ultra fast start up
- C or CS mount

Sensor

Sensor	Aptina (formerly Micron) CMOS
Type	Rolling Shutter, Progressive Scan
Pixel Pitch	2.2 µm x 2.2 µm
Active Area:	
PL-E424CU	5.28 mm x 3.96 mm - 6.6 mm diagonal
PL-E425CU	5.70 mm x 4.28 mm - 7.13 mm diagonal
Peak QE	39 % (color)
Pixel Clock	48 MHz

Optical Format

Optical Format	PL-E424 - 1/3”
	PL-E425 - 1/2.5”

Enviromental & Regulatory

Compliance	FCC Class B, CE & RoHS
Shock & Vibration	300 G & 20 G (10Hz - 2KHz)
Operating Temp.	0°C to 50°C (non-condensing)
Storage Temp.	-45°C to 85°C

Power Requirements

Voltage Req.	5 V DC
Power Consumption	1.3 W

Computer & Operating System

Processor	2.0 GHz or better
Memory	512 MB min. 1 GB recommended
Operating System	Windows XP, Vista, 7 (32 & 64 bit)
Hard Drive Space	75 MB

*Frame rates will vary based on host system and configuration

*Frame Rates (Bayer 8)

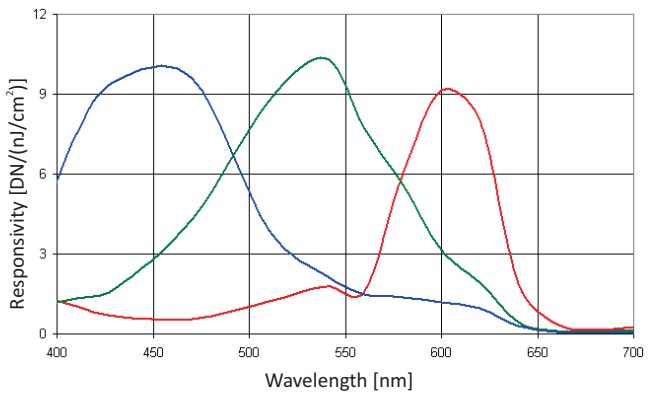
Camera	FPS
PL-E424	8
PL-E425	7

Performance Specifications

Responsivity	Color 4.6 DN/(nJ/cm^2)
FPN	<1 %
PRNU	<2.5 %
Read Noise	<4.5 DN
Dynamic Range	59.2 dB
Bit Depth	8 & 10-bit
Color Data Formats	Bayer 8, Bayer 16 and YUV422
Exposure Range	100 µs to 2.0 seconds free running
Gain	0 dB to 25.1 dB in 45 increments
Image Formats	Bitmap, Tiff, JPEG, PSD
Video Format	Uncompressed AVI

Responsivity Curve - Color

0dB Gain, Channel Gains at Unity, 10bit Data



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