

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 microscopy 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 μ Scope 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"

ENVIRONMENTAL & 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 (BAYER 8)

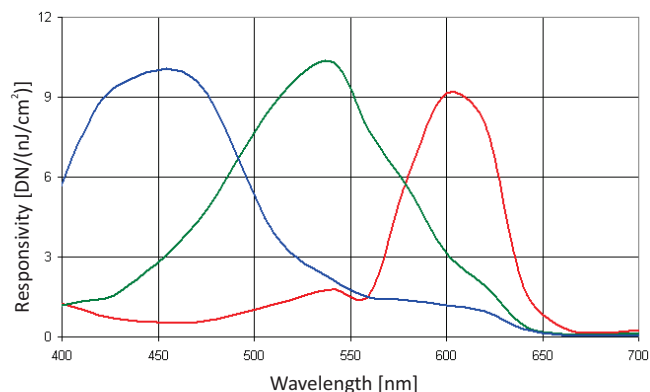
Camera	FPS
PL-E424	8
PL-E425	7

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



*Frame rates will vary based on host system and configuration