

A family of high-resolution cameras designed for microscopy documentation.

General Description

The PL-A620 CMOS camera family provides an easy to use solution to microscopy documentation tasks. With resolutions of 2 and 3.1 megapixels, a flexible set of on-board features and the PixeLINK Capture application, PL-A620 cameras will meet the needs of professional medical and scientific customers.

Well suited to bright field microscopy, The PL-A620 provides fast live-video previews on the host computer for focusing and sample positioning. Images can be captured quickly over the FireWire interface making the PL-A620 ideal for high-productivity image capture applications such as pathology.

Easy to Use!

Connected by FireWire and enabled by software, the PL-A620 camera series is designed with productivity in mind. The cameras are easy to install and simple to operate. Users can begin to capture images within minutes of opening the package.

An intuitive software application, PixeLINK Capture, comes with the camera, allowing software control of all camera parameters and capture of still-images, time-lapse sequences and AVI video files.

As well as camera control and image capture, PixeLINK Capture also includes thumbnail previews of stored images, image annotation and measurement



- **Easy to Use**
- **Cost Effective**
- **Fast Live-Video Preview**
- **FireWire Interface**
- **2 and 3.1 Megapixel Resolutions**
- **Color**
- **PixeLINK Capture Software Included**
- **TWAIN Compatible**

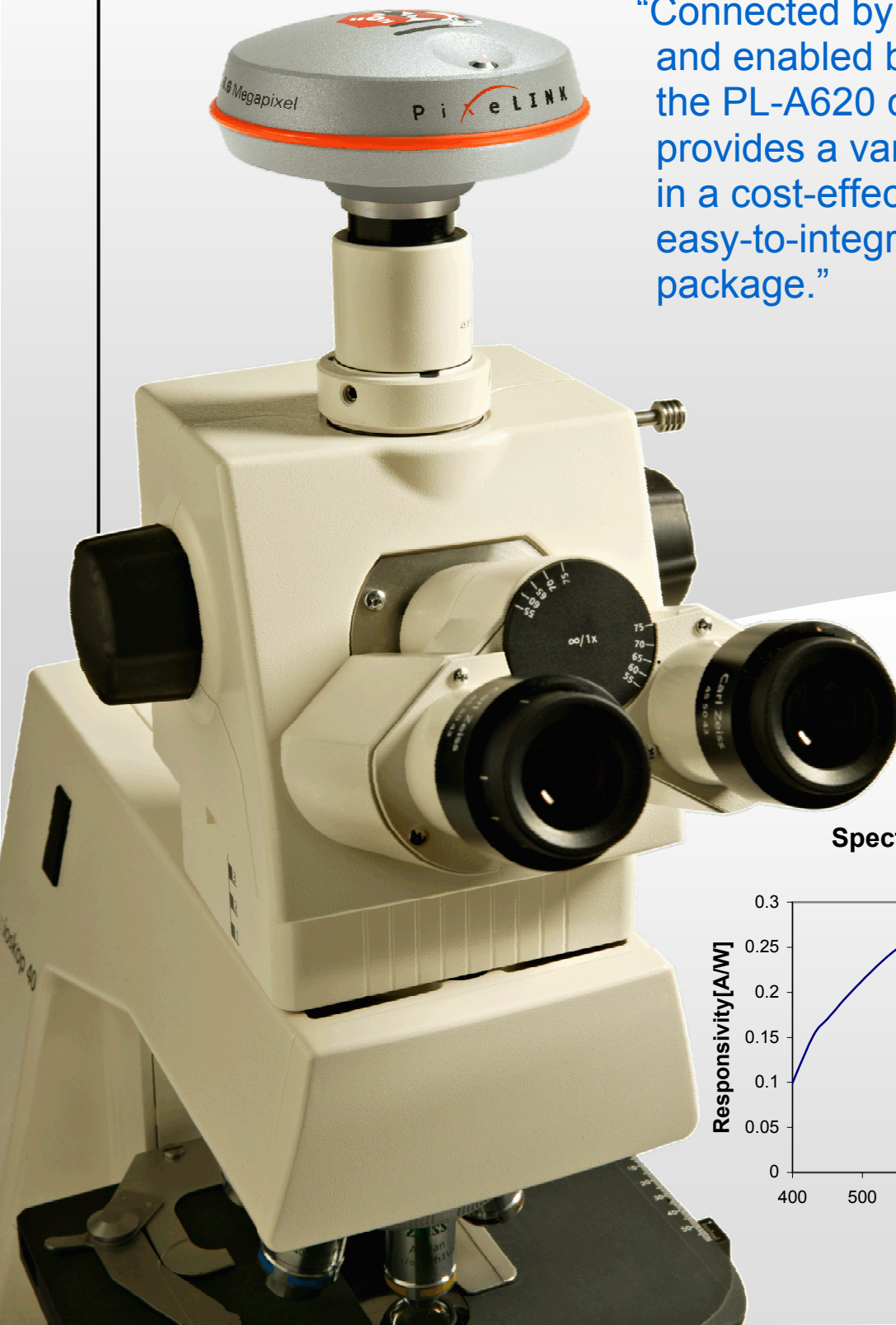
features. Camera and application settings can be saved and recalled at a later time to provide rapid and repeatable workflow. The configurations can, for example, include illumination corrections and measurement calibrations for specific microscope objectives.

PixeLINK Capture can be used as a stand-alone application or as a fully functional TWAIN interface with many 3rd party software applications.

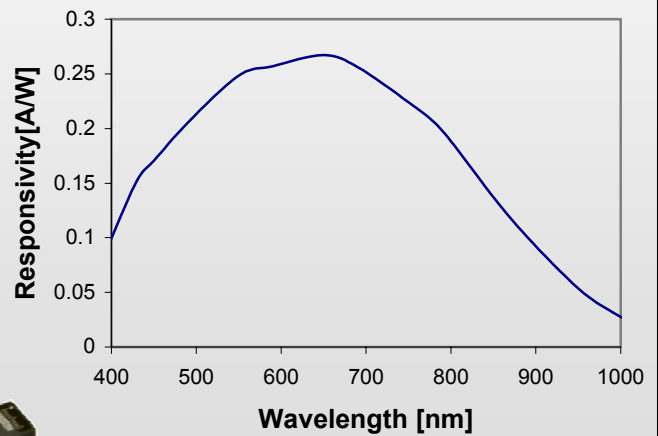


PL-A620

“Connected by FireWire and enabled by software, the PL-A620 camera family provides a variety of resolutions in a cost-effective, easy-to-integrate package.”



Spectral Responsivity



Features

	PL-A622C	PL-A623C
Resolution	1600 x 1200	2048 x 1536
Sensor	½" (8.40mm)	½" (8.19mm)
Pixel Size	4.2 µm	3.2 µm
Color/Mono	Color	
Shutter Type	Rolling	
Frame Rate	Programmable up to ...	
2048 x 1536	n/a	12 fps
1600 x 1200	20	20 fps
1280 x 1024	28	27 fps
1024 x 768	44	43 fps
640 x 480	100	93 fps
Spectral Range	400 – 700 nm	
FPN	TBD	
PRNU	TBD	
Dynamic Range	>61dB	61 dB
SNR _{Max}	>44db	43 dB
Controls		
Image	Exposure, White Balance, Brightness, Gamma, Frame Rate, ROI	
Pixel Addressing	Decimation, Resampling, Averaging or Binning (off-chip) by factors of 2 or 4	
Pixel Format	8 or 10 bit (YUV4:2:2 or Raw Bayer)	
IIDC (DCAM) compatibility	IIDC (DCAM) 1.31	
Computer Interface	FireWire (IEEE 1394)	
Optical Interface	Standard C-Mount	
Power Requirements	Power supplied over the FireWire bus. Max consumption 5W	
Size & Weight	H x D: 100 mm x 51.8 mm 356g	
Environmental	FCC Class B and CE, Temp 0° C to 50° C (non-condensing)	

Minimum System Requirements

- PixeLINK Cameras and software will operate on most computers that can support Windows 2000 (SP3) or Windows XP (SP1). Windows 2000 is recommended.

Recommended System Requirements with PixeLINK Capture:

- Pentium 4, 2.2 GHz, 128MB Ram
- A video card with 24-bit or 32-bit True Color graphics capability, at least 8 MB of video memory and the latest vendor driver installed
- Display Resolution of 1280 x 1024 or better
- 4 gigabytes of hard disk space



PixeLINK PL-A620 Microscopy Cameras

Ordering Information

PL-A62XX

XX = 2C for 2 megapixel color
3C for 3.1 megapixel color

PL-A62XX-KIT

A Camera Kit for the PL-A620 camera. Includes a PL-A62XX camera and PixeLINK Capture software. Interface accessories are not included.

PL-1394-LAPTOP-ACC

An interface accessory pack for use with 1394 enabled laptops. The pack contains a universal power supply, 4-pin to 6-pin cable with a power jack and a 4-pin to 6-pin converter.

PL-1394-LAPTOP-PCMCIA-ACC

An interface accessory pack for use with laptops that do not have IEEE 1394 jacks. The pack contains a PCMCIA OHCI compliant interface card, a "dongle" for the card, a universal power supply, and a 4-pin to 6-pin 1394 cable with a power jack.

PL-1394-DESKTOP-ACC

An interface accessory pack for use with desktop computers. The pack contains a PCI bus OHCI compliant interface card and a 4.5 meter 6-pin to 6-pin 1394 cable.

PL-A600 CAMERA 1/4-20 MOUNT

A tripod mount for the PL-A600 series of cameras. 1/4-20 UNC thread.

PL-SDK-VERSION-4

PixeLINK Software Developer's Kit including drivers, Application Programming Interface, sample code, and the PixeLINK Developer's Application. Purchase includes free PixeLINK technical Support.

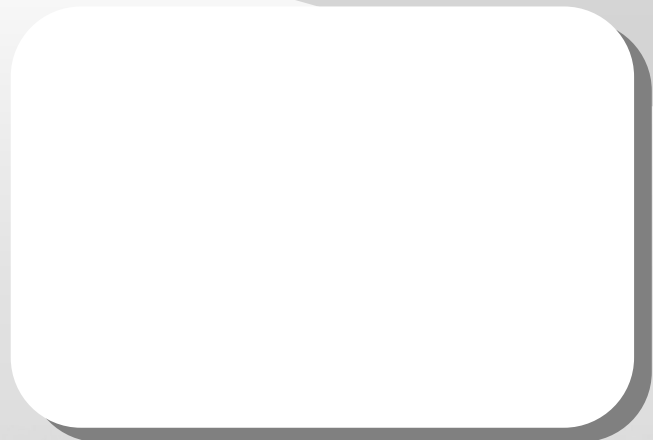
Visit the PixeLINK web site to download the latest PixeLINK firmware updates and tools for the PL-A620 cameras.

Board level cameras with remote heads are available to OEM customers on request.

Subject to change without notice.

October 2004 | Doc # 05051-01

For more information, contact:



Copyright © 2004 PixeLINK. All rights reserved. PixeLINK is a trademark or registered trademark. All other product names are trademarks or registered trademarks of their respective owners.

3030 Conroy Road, Ottawa, ON K1G 6C2
Phone: 613.247.1211 or 1.888.484.8262
Fax: 613.247.2001

<http://www.pixelink.com>
e-mail: info@pixelink.com



MAKING DIGITAL IMAGING SIMPLE

Copyright © 2004 PixeLINK. All Rights Reserved