

INFINITYX



21 Megapixel CMOS USB 2.0 Camera

High Resolution CMOS Color or Monochrome Microscopy Camera for Qualitative Image Archiving

Outline

Lumenera's INFINITYX digital camera is designed to be a flexible microscopy tool for clinical, life sciences, materials sciences, and educational professionals where high-resolution images are essential. Variable resolutions up to 21 megapixels allow the user to take full advantage of their microscope optics in capturing the sharpest image conceivable.

Patented DeltaVU[™] technology represents a breakthrough in sub pixel shifting imaging. The technology ensures more accurate color for detailed image documentation. The result is an increase in image resolution and precise color accuracy.



Live video preview provides for real-time focus, while auto exposure and auto white balance efficiently your optimal image. Software control provides exposures from 64us through 2 seconds. An intuitive user application provides camera control, while full integration to popular third-party imaging applications is available through our TWAIN drivers.

The USB digital interface ensures a simple plug and play installation – and one standard cable minimizes camera clutter. No framegrabber is required.

INFINITYX is supported by an experienced team of technical support and imaging experts. We understand your imaging needs and are here to help you get the most out of your camera.

Performance Features

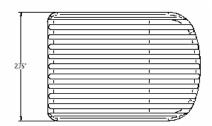
- 21 megapixel resolution is achieved through shifting a 1/2" color or monochrome sensor and the 1280x1024 pixel array. Users will have the flexibility of choosing between 1.3, 5, 10 and 21 mega million pixel resolution taking full advantage of their research microscope optics in capturing precise detail
- Low noise results in remarkable color quality for the most demanding brightfield and darkfield applications including clinical pathology and cytology, life science ad geology
- Full color sub-windowing allows for rapid focus and scanning of samples: 15 fps at SXGA resolution, 60 fps VGA resolution
- □ 8 & 10-bit pixel data modes
- The RGB data captured through each pixel contains 30-bits of color image information resulting in 1024 intensity values per color
- Camera control through an intuitive user TWAIN or INFINITY CAPTURE interface results in rapid image capture archiving and documentation for high throughput applications, demanding research environments and teaching facilities
- Easy and flexible installation on your PC through the standard USB 2.0 High-speed interface
- □ INFINITYX cameras are software compatible with Windows™ 98 SE, Windows ME, Windows 2K and Windows XP operating systems

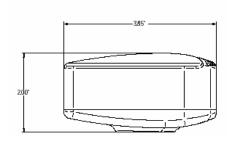
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Specifications

INFINITYX

Camera Sensor		Digital Video Resolution	Digital Video Frame Rate
Image Sensor	1/2" format, color or mono, 6.6mm x 5.3mm array	1280 X 1024	15 frames per second
Effective Pixels	1280 x 1024, 5.2um square pixels	1,024 X 768	24 frames per second
Digital Output	8 and 10-bit uncompressed	800 X 600	37 frames per second
Frame Rate	15 fps at 1280x1024, 60fps at 640x480	640 X 480	60 frames per second
Dark Current (e-/s)	20 e-	Digital Still Image	
Dynamic Range	>60dB	1280 X 1024 / 1.3 million pixels	24 bit RGB: 3.8 MB
Camera Controls		2560 X 2048 / 5.0 million pixels	24 bit RGB: 15 MB
Integration Time	1/1000 to 3 sec.	3840 X 3072 / 10.0 million pixels	24 bit RGB: 34 MB
Shutter	Rolling shutter with single frame capture	5120 X 4096 / 21.0 million pixels	24 bit RGB: 60 MB
Auto Exposure	Automatic / Manual	Computer Interface	
White Balance	Automatic / Manual	Data Interface	High-Speed USB 2.0
Gain	Programmable / 1 to 10X optimizable	Cable	Standard USB 2.0
Lens Mount	C-Mount lens adapter	Application Interface	Intuitive User Application
Operational Specs		Application Support	TWAIN for 3 rd party integration
Dimensions (L x W x H)	3.85 x 2.00 x 2.75 inches		
Mass	300g		
Power Requirement	USB bus power, or external 6VDC - 900mA		_
Power Consumption	~2.5Watts	Į /	$\gamma \Lambda$
Operating Temperature	0°C to +50°C		
Operating Humidity	5%-95%, Non-condensing		Y V I





Recommended PC Specs:

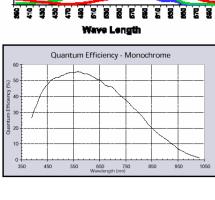
- Pentium 4, 1.3GHz or higher
- 512Mb RAM
- +60 GB hard drive free space
- USB 2.0 Port
- Windows 2000 or XP

Minimum PC Specs:

- 600MHz Processor
- 256Mbytes of SDRAM
- 20GB hard drive free space
- USB 2.0 Port
- · Windows 98 or ME

Product Includes:

- INFINITYX digital camera for USB 2.0
- CD-ROM with Infinity user application software
- TWAIN driver
- Documentation
- USB 2.0 cable



Ordering Information

INFINITY X-21C – Color Camera INFINITY X-21 M – Monochrome Camera

Full customization available to meet your exact needs!

WWW.OEM-OPTICAL.COM / WWW.OEM-OPTICAL.NET

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