

INFINITY1-3



3.1 Megapixel CMOS USB 2.0 Camera

High Resolution CMOS Color Microscopy Camera for Qualitative Image Archiving

Outline

Performance Features

Lumenera's INFINITY 1-3 digital camera is designed to be a cost-effective, versatile solution for documentation and archiving of clinical, life science, material science images where higher resolution is routinely required. With 2048x1536 resolution and on-board processing, the INFINITY 1-3 delivers outstanding image quality for a wide variety of scientific applications.



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

The USB 2.0 digital interface ensures a simple plug and play installation – and one standard cable minimizes camera clutter. No framegrabber required.

INFINITY *1-3* 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.

- The high-speed USB 2.0 interface eliminates a framegrabber and facilitates ease of installation on both laptop and desktop computers
- The low noise characteristic of the INFINITY1-3 progressive scan 3.1 megapixel image sensor results in crisp color quality for the most demanding brightfield and darkfield microscopy applications including clinical pathology and cytology, life science and geology
- Full color sub-windowing allows for rapid focus and scanning of samples: 10 fps at full 2048X1536 resolution and 60 fps at 640x480 resolution
- □ Select 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
- Camera control through an intuitive user TWAIN interface results in rapid image capture archiving and documentation for high throughput applications, demanding research environments and teaching facilities
- The INFINITY 1-3 has a compact design equipped with a C-Mount facilitating installation on all microscope configurations including upright, inverted and stereo
- □ INFINITY 1-3 cameras are software compatible with Windows™ 98 SE, Windows ME, Windows 2K and Windows XP operating systems

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Specifications

Recommended PC Specs:

512Mb RAM

USB 2.0 PortWindows 2000 or XP

Minimum PC Specs: • 600MHz Processor • 256Mbytes of SDRAM

• USB 2.0 Port

Product Includes:

softwareTWAIN driver

DocumentationUSB 2.0 cable

• Windows 98 or ME

• Pentium 4, 1.3GHz or higher

• 20GB hard drive free space

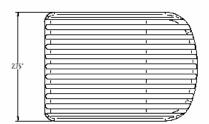
· 60 GB hard drive free space or more

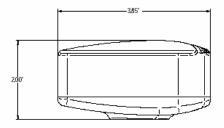
INFINITY 1-3 digital camera for USB 2.0
CD-ROM with INFINITY user application

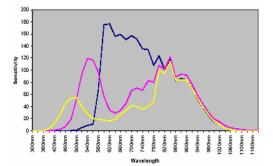
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Camera Sensor

Image Sensor	1/2" format, CMOS, color, 6.5mm x 4.9mm array
Effective Pixels	2048 x 1536, 3.2um square pixels
Frame Rate	6 fps at 2048x1536,60 fps at 640x480
Dynamic Range	>60dB
Digital Output	8 and 10-bit uncompressed
Read Noise	20 e- rms
Camera Controls	
Mass	300g
Power Requirement	USB bus power, or external 5VDC - 500mA
Power Consumption	~2.5Watts
Operating Temperature	0° C to +50° C
Operating Humidity	5%-95%, Non-condensing
Integration Time	1/1000 to 3 sec.
Shutter	Rolling shutter with single frame capture
ROI	User Selectable
Auto Exposure	Automatic / Manual
White Balance	Automatic / Manual
Gain	Programmable / 1 to 10X optimizable
Interface	USB 2.0 high-speed interface
Dimensions (L x W x H)	3.85 x 2.00 x 2.75 inches
Lens Mount	C-Mount lens adapter







Ordering Information

INFINITY 1-3C - Color Camera

Full customization available to meet your exact needs!

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

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