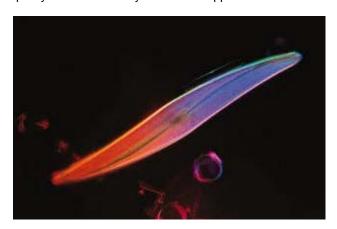


1.4 Megapixel CCD USB 2.0 Camera

High Resolution CCD Color or Monochrome
Microscopy Camera for Image Analysis and Archiving

Outline

Lumenera's INFINITY2-1 1.4 megapixel CCD digital camera is a versatile solution for clinical, life science, materials science, and educational professionals working under low light conditions. With 1392x1040 resolution and on-board processing, the INFINITY2-1 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.

INFINITY2-1 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

Performance Features

- □ The excellent sensitivity and low noise characteristics of the INFINITY2-1 1.4 megapixel CCD image sensor enable users to capture high quality images over a wide range of lighting conditions
- ☐ Full color sub-windowing allows for rapid focus and scanning of samples: 15 fps at full 1392x1040 resolution, 30 fps at smaller regions of interest
- Maximum frame rates exceed 200 fps with binning and ROI
- ☐ Select 8 & 12-bit pixel data modes
- □ The RGB data captured through each pixel contains 36-bits of color image information resulting in 4096 intensity values
- Camera control through an intuitive user TWAIN interface for easy integration to 3rd party software
- Both Custom design services and a Software Developer's Kit (SDK) are available to help with unique design requirements and software integration
- □ INFINITY2-1 cameras are software compatible with Windows™ 98 SE, Windows ME, Windows 2K and Windows XP operating systems

Specifications

INFINITY2-1

Camera Sensor

Image Sensor 1/2" Interline Sony ICX205 1.4 megapixel color or

monochrome progressive scan CCD sensor

7.6mm x 6.2mm array

Effective Pixels 1392x1040, 4.65µm square pixels

Frame Rate 15 fps at 1392 x 1040, >200 fps with binning and ROI

Dynamic Range >66dB

Digital Output 8 and 12-bit Read Noise 12 e- rms Readout Frequency 28.6 MHZ

Dimensions (W x H x D) 2.25 x 3.85 x 1.56 inches (enclosed)



Mass 300g

USB bus power, or external 5VDC - 500mA Power Requirement

Power Consumption ~2.5Watts Operating Temperature 0° C to +50° C

Operating Humidity 5%-95%, Non-condensing

Integration Time 1/1000 to 16 sec. Shutter **Global Shutter** ROI **User Selectable Automatic / Manual** Auto Exposure White Balance **Automatic / Manual**

Programmable / 1 to 10x optimizable Gain

Interface Connector Standard 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

Binning Options 2x2, 3x3, 4x4

Recommended PC Specs:

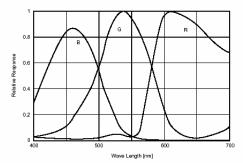
- Pentium 4, 1.3GHz or higher
- 512Mb RAM
- 60 GB hard drive free space or more
- USB 2.0 Port
- · Windows 2000 or XP

Minimum PC Specs:

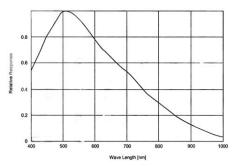
- 600MHz Processor
- 256Mbytes of SDRAM
- 20GB hard drive free space
- USB 2.0 Port
- Windows 98 or ME with a USB 2.0
- · Add-in card and driver

Product Includes:

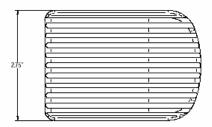
- INFINITY2-1 digital camera for USB 2.0
- · CD-ROM with Infinity user application software
- TWAIN driver
- Documentation
- USB 2.0 cable

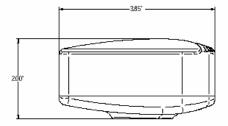


Color Response Curve



Mono Response Curve





Ordering Information

INFINITY 2-1 C - Color Camera

INFINITY 2-1M – Monochrome Camera

Full customization available to meet your exact needs!

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