INFINITY2-2

2.0 Megapixel CCD USB 2.0 Camera
High Resolution CCD Color or Monochrome Microscopy Camera for Qualitative Image Archiving

Now includes INFINITY ANALYZE Software!

Outline

INFINITY2-2 digital CCD color or monochrome camera offers excellent sensitivity and high resolution. This is an ideal camera for brightfield, darkfield, and DIC imaging applications where higher resolution archiving and a wide dynamic range are routinely required. With 1616X1216 resolution and on-board processing, the INFINITY2-2 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.

Every INFINITY camera now includes INFINITY ANALYZE software for advanced camera control, image processing, measuring and annotation.

The INFINITY2-2 camera 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

- 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 INFINITY2-2, 2.0 megapixel CCD image sensor results in crisp color quality for the most demanding brightfield and darkfield microscopy applications including clinical pathology and cytology, histology, life science and geology
- Full color sub-windowing allows for rapid focus and scanning of samples: 12 fps at full 1616X1216 resolution, 30 fps at smaller regions of interest
- Select 8 and 12-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 interface results in rapid image capture archiving and documentation for high throughput applications, demanding research environments and teaching facilities
- The INFINITY2-2 has a compact design equipped with a C-Mount, facilitating installation on all microscope configurations including upright, inverted and stereo
- INFINITY cameras are software compatible with Windows 2K, Windows XP and Windows Vista operating systems
- MAC compatible
- Full one (1) year warranty
Specifications

INFINITY 2-2

Camera Sensor

Image Sensor 1/1.8" Interline Sony ICX274 2.01 megapixel color or monochrome progressive scan CCD sensor

Effective Pixels 1616 x 1216, 4.4µm square pixels

Frame Rate 12 fps at full resolution, higher fps with binning and ROI

Signal/Noise >66dB

Digital Output 8 and 12-bit

Read Noise 12 e- rms

Dimensions (W x H x D) 2.00 x 2.50 x 1.63 inches (board level)

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 16 sec

Shutter Global Shutter

ROI User Selectable

Auto Exposure Automatic / Manual

White Balance Automatic / Manual

Gain Programmable / 1 to 10x

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, 4x4

Recommended PC Specs:

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

Minimum PC Specs:

- 600 MHz Processor
- 256 MB of SDRAM
- 20 MB hard drive free space
- USB 2.0 Port

Product Includes:

- INFINITY2-2 digital camera for USB 2.0
- CD-ROM with INFINITY user application software
- TWAIN driver
- Documentation
- USB 2.0 cable

Ordering Information

INFINITY 2-2C – Color Camera
INFINITY 2-2M – Monochrome Camera

Full customization available to meet your exact needs!