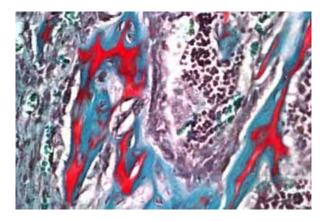




- 32 Megapixel CCD USB 2.0 Camera
- Sub-Pixel Detail
- Incredible Color Accuracy
- Excellent Sensitivity

Outline

The INFINITYX-32 offers incredible flexibility in capturing images at 2, 8, 16 and 32 megapixel resolution. Using the patented DeltaVu[™] technology, each CCD pixel captures full chromatic information, resulting in increased color resolution with no degradation. The INFINITYX-32 is the fist pixel shifting camera to utilize the highly sensitive SONY ICX274 sensor. The relatively low cost of the INFINITYX-32 makes it an affordable tool for clinical, life and material sciences where megapixel resolution, color accuracy, and light sensitivity are essential.



Live video preview provides for real-time focus, while auto exposure and auto white balance help efficiently capture your optimal image. Software control provides exposures from 67us through to 2 seconds.

An intuitive user application provides camera control, while full integration to popular third-party imaging applications is available through our TWAIN drivers.

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

The INFINITY X-32 includes INFINITY ANALYZE software for advanced camera control, image processing, measurement and annotation.

Performance Features

- 32 megapixel resolution is achieved through shifting a color or monochrome sensor with a 1616X1216 pixel array
- ☐ Users will have the flexibility of choosing between 2, 8, 16 and 32 megapixel resolution on capture, taking full advantage of their microscope optics
- Highly sensitive, low noise CCD with remarkable color quality for the most demanding applications
- □ Full color sub-windowing allows for rapid focus and scanning of samples: 12 fps at full 1616X1216 resolution, 25 fps at smaller regions of interest
- □ 8 / 12-bit selectable output format
- □ The RGB data captured through each pixel contains 36-bits of color image information resulting in 4096 intensity values per color
- Camera control through INFINITY CAPTURE, an intuitive user interface, resulting in rapid image capture, archiving and documentation for high throughput applications
- INFINITY ANALYZE software for advanced camera control, image processing, measurement, annotation and archiving
- Easy and flexible installation on your PC through a standard, high-speed USB 2.0 interface
- INFINITYX-32 cameras are software compatible with Windows 2K, Windows XP and Windows Vista operating systems
- ☐ Full one (1) year warranty

Specifications

INFINITY X-32

Camera Sensor

1/1.8" Interline Sony ICX274 2.0 megapixel Image Sensor color or monochrome progressive scan CCD

sensor

Effective Pixels 1616 x1216, 4.4µm square pixels Digital Output 8 and 12-bit uncompressed Frame Rate

12 fps at 1616x1216, 25 fps at 640x480

Dark Current (e-/s) 12 e->66dB Dynamic Range

Camera Controls

Integration Time .067ms to 2 seconds Global Electronic Shutter Shutter Auto Exposure Automatic / Manual White Balance Automatic / Manual Programmable / 1 to 10X Gain

Adjustable C-Mount lens adapter Lens Mount

Operational Specs

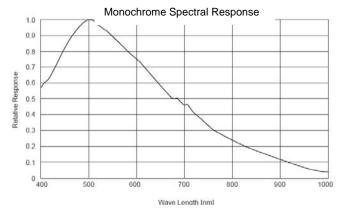
Dimensions (L x W x H) 3.85 x 2.00 x 2.75 inches

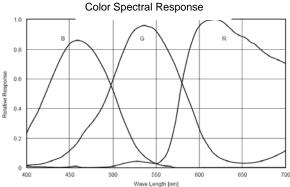
Mass

Power Requirement USB bus power, or external 5VDC - 2.5A

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

Operating Humidity 5%-95%, Non-condensing





Ordering Information

INFINITYX-32C Color Camera

INFINITYX-32M - Monochrome Camera

Lu8101 - Power Supply with international

adaptors (included)

Digital Video Resolution

1616 X 1216 1280 X 1024 808 X 608 (Binning 2x2) 640 X 480

404 X 304 (Binning 4X4) Mono 320 X 240

Digital Still Image

1616 X 1216 Demosaic / 2 Meg 3232 X 2432 / 8 Meg 4848 X 3648 / 16 Meg 6464 X 4864 / 32 Meg

Computer Interface

Data Interface Cable

Application Interface

Application Support

Digital Video Frame Rate

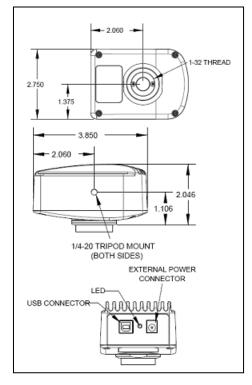
12 frames per second 14 frames per second 21 frames per second 25 frames per second 37 frames per second 39 frames per second

24 bit RGB: 5.6 MB 24 bit RGB: 22 MB 24 bit RGB: 50 MB 24 bit RGB: 90 MB

High-Speed USB 2.0 Standard USB 2.0

INFINITY ANALYZE and INFINITY CAPTURE Software

TWAIN for 3rd party integration



Recommended PC Specs:

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

Minimum PC Specs:

- 600MHz Processor
- 256 MB of SDRAM
- 20MB hard drive free space
- Windows XP or 2K

Product Includes:

- INFINITYX-32 USB 2.0
- digital camera
- CD-ROM with INFINITY software
- TWAIN driver
- Documentation
- USB 2.0 cable
- Power supply with international adaptors

