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 first 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.

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

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

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

Outline

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**

**Camera Sensor**
- 1/1.8” Interline Sony ICX274 2.0 megapixel color or monochrome progressive scan CCD sensor
- Effective Pixels: 1616 x 1216, 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-
- Dynamic Range: >66dB

**Camera Controls**
- Integration Time: .067ms to 2 seconds
- Shutter: Global Electronic Shutter
- Lens Mount: Adjustable C-Mount lens adapter

**Operational Specs**
- Dimensions (L x W x H): 3.85 x 2.00 x 2.75 inches
- Mass: 300g
- 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

**Digital Video Resolution**
- 1616 X 1216
- 1280 X 1024
- 640 X 480
- 320 X 240

**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

**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: High-Speed USB 2.0
- Application Interface: INFINITY ANALYZE and INFINITY CAPTURE Software
- Application Support: TWAIN for 3rd party integration

**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

**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

**Ordering Information**

INFINITYX-32C – Color Camera
INFINITYX-32M – Monochrome Camera
Lu8101 – Power Supply with international adaptors (included)