INFINITY 1-1M
1.3 Megapixel CMOS USB 2.0 Camera
Low Cost, High-Speed, CMOS Monochrome Microscopy Camera.

INFINITY 1-1M digital camera is designed to be a cost-effective, versatile solution for clinical, life science, materials science and educational professionals. With 1280x1024 resolution and on-board processing, the INFINITY 1-1M delivers outstanding image quality for a wide variety of scientific applications. The low noise characteristic of the INFINITY 1-1 progressive scan 1.3 megapixel image sensor results in crisp quality for the most demanding microscopy applications including life science and material science applications.

Full Image Analysis Software Included
INFINITY CAPTURE, an intuitive image capture program, and INFINITY ANALYZE, a full image analysis software package offering camera control, measurement, annotations, tiling and post-capture enhancement, are both included. Camera and software are combined to create a complete microscopy imaging solution for your application.

USB 2.0 Plug-and-Play Interface
Once the software has been installed, running one or more cameras on a single computer is as simple as plugging them into a high-speed USB 2.0 port.

Third-Party Software Integration
INFINITY cameras are integrated into a variety of third-party software packages through direct drivers or with TWAIN/DirectX support.

Mac Camera Software
A Mac camera driver, capture application and ImageJ plug-in are available for the INFINITY 1-1M.

Superior Technical Assistance Center (TAC)
All cameras are supported by an experienced team of technical support and imaging experts widely acclaimed in the industry. As a customer you gain access to the TAC group and knowledge base, providing full support for cameras, software and microscopy applications.

Features
- 30 fps at full 1280x1024 resolution and 120 fps at 640x480 resolution
- Select 8 & 10-bit pixel data modes
- Compact design equipped with a C-Mount, facilitating installation on all microscope configurations including upright, inverted and stereo
- Software compatible with Windows XP, Vista, 7, 8, Mac OSX 10.7, 32 and 64-bit operating systems
- Includes TWAIN and DirectX/ Direct Show support

Recommended Applications
- Life Science
- Material Sciences
- Inspection
- Geology

Warranty
- Two (2) year parts and labor

Microscope Coupler
- Recommend 0.5x C-Mount coupler
Sensor Specifications
- Image Sensor: 1/2" CMOS Aptina MT9M001 (Mono)
- Optical Format: 1/2"
- Active Area: Diagonal 10.972 mm
- Pixel Size: 5.2 x 5.2 µm
- Resolution: 1280 x 1024 pixels
- Region of Interest Control: User selectable

Camera Specifications
- Frame Rate: 30 fps (1280 x 1024), 120 fps (640 x 480)
- Bit Depth: 8 or 10-bit
- Exposure Control: Manual and automatic control
- Gain: Manual control
- Gain Range: 1.0 to 15x

Camera Characteristics
- Dynamic Range: >60dB

Mechanical Specifications
- Data Interface: USB 2.0
- Lens Mount: C-Mount
- Dimensions: 3.85 x 2.00 x 2.75 inches
- Mass: 300 g
- Operating Temperature: 0 to 50 ºC

Camera Software
- Operating Systems: Windows XP, Vista, 7, 8 (32 and 64-bit), Mac OSX 10.7

Power and Emissions
- Power Consumption: ~2.5 W
- Power Requirement: USB bus power, or external 6VDC - 500mA
- Emissions Compliances: FCC Class B, CE Certified
- Hazardous Materials: RoHS, WEEE Compliant
- Warranty: Two (2) years

Included In The Box
- INFINITY1-1M 1.3 MP digital camera and USB 2.0 cable
- LuINFSW-DVD DVD with INFINITY ANALYZE and CAPTURE software, TWAIN driver and documentation
- LuSDKSW-DVD Software Developer’s Kit (Web Download)
- LuSDKSW Software Developer’s Kit (DVD)
- La20606 Power supply 6VDC, Power Supply (Optional)
- LuINFSW-DVD DVD with INFINITY user application software, TWAIN driver and documentation

Ordering Information
- INFINITY1-1M 1.3 MP CMOS Monochrome Camera
- LuIAP-1 INFINITY Advanced Features Pack 1: Includes USB Key for extra INFINITY ANALYZE license, additional 3 year warranty, 1 advance product replacement.
- LuSDKSW Software Developer’s Kit (Web Download)
- LuSDKSW-DVD Software Developer’s Kit (DVD)
- La20606 Power supply 6VDC, Power Supply (Optional)
- LuINFSW-DVD DVD with INFINITY user application software, TWAIN driver and documentation

Monochrome Quantum Efficiency Curve

INFINITY 1-1M Sample Image - PCB Inspection