INFINITY 1-2

2.0 Megapixel CMOS USB 2.0 Camera

Scientific digital imaging for documentation in Clinical and Material Science Applications



INFINITY 1-2

Within the INFINITY 1 family of CMOS cameras, the INFINITY 1-2 is an excellent entry level multi-megapixel microscopy camera. This camera is ideal for applications with bright, consistent lighting and tight budget constraints. The INFINITY 1-2 delivers outstanding image quality for a wide variety of scientific applications including clinical, life science, materials science and educational professionals.

Excellent Color Reproduction

Years of experience in the microscopy market have allowed Lumenera to develop specialized color algorithms ensuring excellent color reproduction in samples ranging from stained cells to wafer inspection.

Full Image Analysis Software Included

INFINITY CAPTURE, an intuitive image capture program, and INFINITY ANALYZE, a full image analysis 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 1-2.

Superior Technical Assistance Center (TAC)

As a customer you gain access to the TAC group and knowledge base, which provide full support for cameras, software and microscopy applications.

Features

- Progressive scan ½" 2.0 megapixel CMOS sensor
- Full color sub-windowing and subsampling for rapid focus and scanning of samples
- 8 or 10-bit pixel data modes
- Software compatible with Windows XP, Windows Vista, Windows 7 and Mac OSX. 32 and 64-bits
- Includes TWAIN and DirectX/ Direct Show support

Recommended Applications

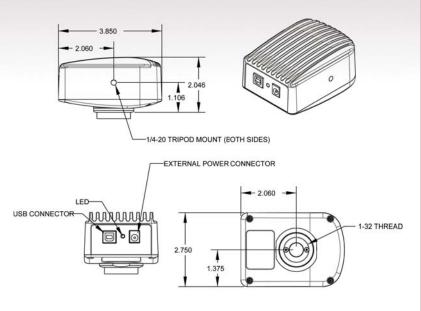
- Brightfield
- Live Cell Imaging
- Histology
- Pathology
- Cytology
- Defect Analysis
- Semiconductor Inspection
- Metrology

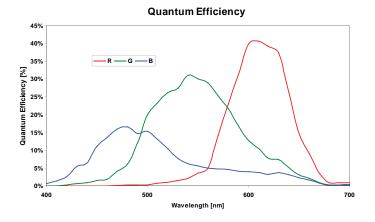
Warranty

• One (1) year parts and labor

Microscope Coupler

• Requires 0.5x C-mount coupler





Sensor Specifications	
Image Sensor	SOI268, CMOS, color, progressive scan
Optical Format	1/2"
Active Area	6.72 mm x 5.04 mm
Pixel Size	4.2 µm x 4.2 µm
Resolution	1600 x 1200 pixels
Region of Interest Control	Any multiple of 8 x 8 pixels, 32 x 32 pixels minimum
Camera Specifications	They make of a x a pixala, as x as pixala minimum
Frame Rate	15 fps
Bit Depth	8 or 10-bits
Binning / Subsampling	8 OF TO-DIES
Modes	2x subsampling mode
Exposure Control	Manual and automatic control
Exposure Range	64 μs - 499ms (video), 64 μs - 2s (snapshot)
Gain Control	Manual and automatic control
Gain Range	1-7.75 x
White Balance	Manual and automatic control
Camera Characteristics	
Sensitivity	2.2DN/(nJ/cm ²) [at 8-bit, 1x gains]
Dynamic Range	49dB
Pixel Well Depth	12,600 e-
Quantum Efficiency	40% (red - peak)
Read Noise	45 e-
Dark Current Noise	<8 e-/s
Mechanical Specifications	
Data Interface	USB 2.0
Lens Mount	Adjustable C-Mount standard
Dimensions	2.75 x 3.85 x 2.25 inches
Mass	300 grams
Operating Temperature	0° C - 50° C
Storage Temperature	-30° C - 70° C
Operating Humidity	5%-95%, non-condensing
Operating Humidity Shock / Vibration	5%-95%, non-condensing 50 G shock, 5 G (2-200 Hz) vibration
Shock / Vibration	
Shock / Vibration Camera Software	50 G shock, 5 G (2-200 Hz) vibration Windows XP, Windows Vista, Windows 7, Mac OSX,
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Shock / Vibration Camera Software Operating Systems Power and Emissions Power Consumption	50 G shock, 5 G (2-200 Hz) vibration Windows XP, Windows Vista, Windows 7, Mac OSX, 32 and 64-bits ~2.5 Watts
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Shock / Vibration Camera Software Operating Systems Power and Emissions Power Consumption Power Requirement Emissions Compliances Hazardous Materials Warranty System Requirements Recommended PC Specs: Minimum PC Specs: Included In The Box INFINITY 1-2CB	50 G shock, 5 G (2-200 Hz) vibration Windows XP, Windows Vista, Windows 7, Mac OSX, 32 and 64-bits ~2.5 Watts USB bus power (optional 5VDC - 500mA) FCC Class BE, CE Certified RoHS, WEEE Compliant One (1) year • Pentium 4, 1.3 GHz or higher • 512 MB RAM • 500 MB hard drive free space or more • USB 2.0 Port • Windows 7 • 600 MHz Processor • 256 MB of SDRAM • 200 MB hard drive free space • USB 2.0 Port • Windows XP 2 MP digital camera for USB 2.0 DVD with INFINITY user application software (including
Shock / Vibration Camera Software Operating Systems Power and Emissions Power Consumption Power Requirement Emissions Compliances Hazardous Materials Warranty System Requirements Recommended PC Specs: Minimum PC Specs: Included In The Box INFINITY 1-2CB LuINFSW-DVD	50 G shock, 5 G (2-200 Hz) vibration Windows XP, Windows Vista, Windows 7, Mac OSX, 32 and 64-bits ~2.5 Watts USB bus power (optional 5VDC - 500mA) FCC Class BE, CE Certified RoHS, WEEE Compliant One (1) year • Pentium 4, 1.3 GHz or higher • 512 MB RAM • 500 MB hard drive free space or more • USB 2.0 Port • Windows 7 • 600 MHz Processor • 256 MB of SDRAM • 200 MB hard drive free space • USB 2.0 Port • Windows XP 2 MP digital camera for USB 2.0 DVD with INFINITY user application software (including INFINITY ANALYZE), TWAIN driver and documentation
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