INFINITY 3-3URF

High-Speed, High Dynamic Range and Sensitivity, 2.8 Megapixel CCD USB 3.0 Camera

Cooled Performance from an Uncooled Camera. Ideal for Scientific Image Analysis in Low Light Life Science, Clinical and Material Science Applications



INFINITY Fluorescence Series Bundle Includes

- INFINITY3-3URF camera
- INFINITY ANALYZE and INFINITY CAPTURE Software
- INFINITY Advantage Pack LuIAP-2
- Free 9-month trial of Media Cybernetics Image-Pro Premier
- Extended 5-year warranty



INFINITY 3-3URF

Lumenera's INFINITY3-3URF is a high-speed, high-sensitivity research-grade camera with a 2.8 megapixel resolution. The INFINITY3-3URF incorporates Sony's remarkable ICX674 CCD sensor, unleashing the high frame rate capability via a high-speed USB 3.0 data interface. Full resolution images are sent to a host computer at up to 53 frames per second (fps). The research-grade designation of the INFINITY3-3URF is a testament to the low noise electronics, high-grade components and unique thermal management techniques. The result is an industry-leading, high-performance, low noise digital camera, alone in its class.

Superior Sensitivity and Color Reproduction

The INFINITY3-3UR has the unmatched light sensitivity needed for low light applications. Relying on Sony's EXview HAD II technology, this camera offers extremely high dynamic range, $4.54 \times 4.54 \, \mu m$ pixels and very low noise. The INFINITY3-3URF delivers outstanding image quality and value for challenging low light applications such as fluorescence and NIR imaging.

USB 3.0 High-Speed Plug-and-Play Interface

The INFINITY 3-3URF uses the latest USB 3.0 technology at 5 Gbits/sec to deliver the fastest image transfer - even at its highest resolution. 128 MB of onboard memory for frame buffering ensures dependable and reliable image delivery at full frame rate and highest resolution even in the most demanding systems. USB 3.0 is the ideal choice for microscopy as it is readily available on today's computers, while plug-and-play connectivity makes for installation easy. Simplified I/O cabling is provided through a locking Hirose connector supporting 1 optically isolated output, 1 optically isolated input and 2 configurable I/O ports. USB 2.0 is fully supported (with reduced performance).

Full Image Analysis Software Included

INFINITY CAPTURE, an intuitive image capture program, and INFINITY ANALYZE, a full image analysis package offering camera control, measurement, annotation, tiling and post capture enhancement, are included with the camera. Camera and software combine to create a complete microscopy imaging solution for your application.

Free 9-Month Trial of Media Cybernetics Image-Pro Premier

Image-Pro Premier offers intuitive tools that make it easy to capture, process, measure, analyze and share your images and valuable data.

Superior Technical Assistance Center (TAC)

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

Features

- Color or monochrome ICX674 CCD sensor with 2/3" optical format providing a resolution of 1936 x 1456 using 4.54 x 4.54 µm pixels
- Fastest frame rates possible for the ICX674 sensor. Up to 53 fps at full resolution, 60 fps (1920 x 1080), 109 fps at VGA (640 x 480)
- High-speed USB 3.0 interface for fastest image delivery and simplified connectivity. USB 2.0 supported
- GPI/O for control of peripherals and synchronization
- Selectable tap readout, matching sensor performance to your application
- Multiple frame rates supported, each optimized for lowest noise performance
- Software compatible with Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit operating systems
- Includes TWAIN and DirectX/ Direct Show support

Image-Pro Premier Software Features

- 64-bit single capture and streaming to disk
- Quick access to intensity and morphology over-time studies
- Extensive microscopy file format support and simple color compositing
- Industry-leading co-localization analysis on whole images or user-defined regions
- Analysis tools to identify, count, measure, and classify whole cells, nuclei, membranes, cytoplasmic structures, and more
- Perform population studies using thousands of images with intuitive batch processing
- Image-Pro Premier is compatible with Windows XP SP 3 and later (32 bit), and Windows 7 Professional and Ultimate (32 and 64 bit)
- Discount offer for purchase of software

Warranty

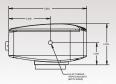
Five (5) years warranty



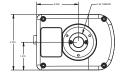
INFINITY3-3URF WWW.LUMENERA.COM

Mechanical Drawing

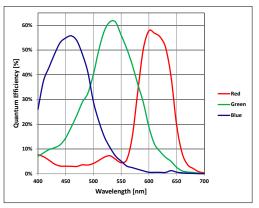




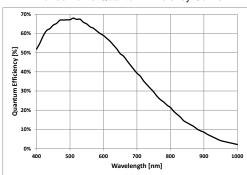




Color Quantum Efficiency Curves

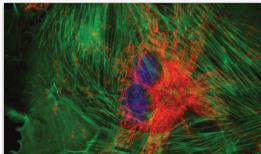


Monochrome Quantum Efficiency Curve



Sample Images

For sample images please visit our online gallery at: www.lumenera.com/microscopyimages/





and channel gains at unity) Dynamic Range 68.8 dB (Color), 65.3 dB (Mono) Full Well Depth ~17,000 e- (Color), ~11,400 e- (Mono) Quantum Efficiency 61% (Color), 68% (Mono) Read Noise 6.2 e- (4 taps, 16 fps, 25 °C ambient) Mechanical Specifications Data Interface USB 3.0 (USB 2.0 support for lower frame rates) General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard Dimensions 97.8 × 69.8 × 50.8 mm 3.85 × 2.75 × 2.00 inch Mass Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Five (5) years Included In The Box INFINITY3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Sensor Specifications	
Imager Size Diagonal 10.972 mm Pixel Size 4.54 x 4.54 µm Resolution 1936 x 1456 pixels Region of Interest Control Any multiple of 16 x 16 pixels (quad tap mode) Camera Specifications Frame Rate 53 fps (1936 x 1456), 60 fps (1920 x 1080), 109 fps (640 x 480) Bit Depth 8 or 14-bit Binning Modes 2 x 2, 4 x 4, 8 x 8 (3 x 3 mono only) Exposure Control Manual and automatic control Exposure Range 3, μs to 71 min (snapshot) 23 μs to 1.3 s (video) Gain Cange 0.8 to 58x (color), 0.8 to 33x (mono) White Balance Manual and automatic control Gain Range 0.8 to 58x (color), 0.8 to 33x (mono) White Balance Manual and automatic control Trigger Modes Hardware and software triggerable Camera Characteristics Camera Characteristics Peak Sensitivity Color: 4.2 DN/(nJ/cm²), Mono: 7.3 DN/(nJ/cm²) (Globa and channel gains at unity) Dynamic Range 68.8 dB (Color), 6.5 3 dB (Mono) Full Well Depth -17,000 e- (Color), -11,400 e- (Mono) Quantum Efficiency 61% (Color), 68% (Mono) Read Noise 6.2 e- (4 taps, 16 fps, 25 °C ambient) Mechanical Specifications Data Interface USB 3.0 (USB 2.0 support for lower frame rates) Mechanical Specifications Data Interface USB 3.0 (USB 2.0 support for lower frame rates) General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard Dimensions 97.8 x 69.8 x 50.8 mm 3.85 x 2.75 x 2.00 inch Mass 340 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95 %, non-condensing Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operator Michael Regions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Fine Sissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Five (5) years Included In The Box INFINITY-3-UR	Image Sensor	SONY ICX674, CCD, color or monochrome
Pixel Size 4.54 x 4.54 µm Resolution 1936 x 1456 pixels Region of Interest Control 2 Any multiple of 16 x 16 pixels (quad tap mode) Camera Specifications Frame Rate 53 fps (1936 x 1456), 60 fps (1920 x 1080), 109 fps (640 x 480) Bit Depth 8 or 14-bit 8 inning Modes 2 x 2, 4 x 4, 8 x 8 (3 x 3 mono only) Exposure Control Manual and automatic control Exposure Range 3 µs to 71 min (snapshot) 23 µs to 71 min (snapshot) 23 µs to 1.3 s (video) Gain Control Manual and automatic control Gain Range 0.8 to 58x (color), 0.8 to 33x (mono) White Balance Manual and automatic control Trigger Modes Hardware and software triggerable Camera Characteristics Peak Sensitivity Color; 6.2 db (Mono) Full Well Depth -17,000 e- (Color), -11,400 e- (Mono) Quantum Efficiency 61% (Color), 68% (Mono) Read Noise 6.2 e- (4 taps, 16 fps, 25 °C ambient) Mechanical Specifications Dark Current Noise 1 e-/s (at 22 °C ambient) Mechanical Specifications General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard Dimensions 97.8 x 69.8 x 50.8 mm 3.85 x 2.75 x 2.00 inch Mass 340 g Operating Temperature 0 to 50 °C Storage Temperature 30 to 70 °C Operating Humidity 5 to 95%, non-condensing Onboard Memory Camera Booth Marker Regions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 v DC, 1.2 A, power supply (included) Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 v DC, 1.2 A, power supply (included) Parisons Compiliances FCC Class B, CE Certified Hazardous Materials RoHs, WEEE Compliant Warranty Five (5) years Included In The Box INFINITY ANALYZE and CADTI IDE Software	Optical Format	2/3"
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White Balance Manual and automatic control Trigger Modes Hardware and software triggerable Camera Characteristics Peak Sensitivity Dynamic Range 68.8 dB (Color), 65.3 dB (Mono) Full Well Depth -17,000 e- (Color), ~11,400 e- (Mono) Quantum Efficiency 61% (Color), 68 % (Mono) Read Noise 6.2 e- (4 taps, 16 fps, 25 °C ambient) Mechanical Specifications Data Interface USB 3.0 (USB 2.0 support for lower frame rates) General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard Dimensions 97.8 x 69.8 x 50.8 mm 3.85 x 2.75 x 2.00 inch Mass 340 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95 %, non-condensing Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power And Emissions Power Requirement External 5 V DC, 1.2 A, power supply (included) FCC Class B, CE Certified Hazardous Materials POWER MAINTY ANALYZE and CARTURE software OD(C) with INFINITY ANALYZE and CARTURE software	Gain Control	Manual and automatic control
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Quantum Efficiency Read Noise 6.2 e- (4 taps, 16 fps, 25 °C ambient) Dark Current Noise <1 e-/s (at 22 °C ambient) Mechanical Specifications Data Interface USB 3.0 (USB 2.0 support for lower frame rates) General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard Dimensions 340 g Operating Temperature 0 to 50 °C Storage Temperature Operating Humidity 5 to 95 %, non-condensing Onboard Memory Camera Software Operating Systems Power and Emissions Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances Hazardous Materials Warranty Five (5) years INFINITY 3-3UR PNO with INFINITY ANALYZE and CART UPE activate Day ambient) Addition of the service	Dynamic Range	68.8 dB (Color), 65.3 dB (Mono)
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General Purpose I/O Locking Hirose MXR-8R-8SA(71) Lens Mount Adjustable C-mount standard 97.8 × 69.8 × 50.8 mm 3.85 × 2.75 × 2.00 inch Mass 340 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95 %, non-condensing Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances Hazardous Materials RoHS, WEEE Compliant Five (5) years Included In The Box INFINITY 3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Mechanical Specification	ons
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Operating Humidity Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials Warranty Five (5) years Included In The Box INFINITY 3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Operating Temperature	0 to 50 °C
Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Five (5) years Included In The Box INFINITY 3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Storage Temperature	-30 to 70 °C
Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7 32 and 64-b Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Five (5) years Included In The Box INFINITY 3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Operating Humidity	5 to 95 %, non-condensing
Operating Systems Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Five (5) years Included In The Box INFINITY3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Onboard Memory	Camera has onboard non-volatile memory storage
Power and Emissions Power Consumption 6 W max in full frame rate mode Power Requirement External 5 V DC, 1.2 A, power supply (included) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Five (5) years Included In The Box INFINITY 3-3UR 2.8 MP Digital Camera and USB 3.0 cable	Camera Software	
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Warranty Five (5) years Included In The Box INFINITY3-3UR 2.8 MP Digital Camera and USB 3.0 cable	· · · · · · · · · · · · · · · · · · ·	•
Included In The Box INFINITY3-3UR 2.8 MP Digital Camera and USB 3.0 cable DVD with INFINITY ANALYZE and CARTURE actives.		,
INFINITY3-3UR 2.8 MP Digital Camera and USB 3.0 cable		(5) your
DVD with INFINITY ANALYZE and CARTURE acftwar		2.8 MP Digital Camera and LISR 3.0 cable
TWAIN driver and documentation	LuINFSW-DVD	DVD with INFINITY ANALYZE and CAPTURE software
	Ordering Information	2.9 MR Upagolad CCD Color USB 2.0 Campra

Ordering Information	
INFINITY3-3URFC	2.8 MP Uncooled CCD Color USB 3.0 Camera
INFINITY3-3URFM	2.8 MP Uncooled CCD Monochrome USB 3.0 Camera
La050315	5 V DC, 3.0 A,15 W Power Supply
LuSDKSW	Software Developer's Kit (Web Download)
La2000PAFL	GPI/O Breakout Cable

Recommended Applications

Brightfield; Darkfield; Live Cell Imaging; Histology; Pathology; Cytology; Gel Documentation; Whole Slide Imaging; Low Light Fluorescence; Quantitative Analysis.



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