

INFINITY3S-1UR High Performance. Low Price.

INFINITY3S-1UR

Teledyne Lumenera's INFINITY3S-1UR is a high-performance microscopy camera designed for both brightfield and routine fluorescence imaging, and priced to be accessible to budget-constrained users. This multiple-purpose camera enables virtually any microscopy to image in both color and fluorescence. Each camera includes intuitive software and is backed by an industry-leading 4-year warranty.

Superior Sensitivity and Quantum Efficiency

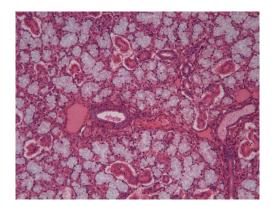
The INFINITY3S-1UR has the unmatched light sensitivity and extremely low noice. This delivers high image quality and value for challenging low-light applications such as fluorescence and NIR imaging.

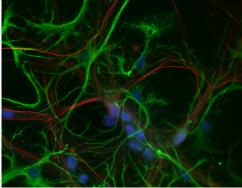
Full Image Analysis Software Included

INFINITY ANALYZE microscopy software is included with the INFINITY3S-1UR. There are no license fees or fees associated with software updates. This model ensures users have access to the most up to date software features without extra costs.

Superior Technical Assistance Center (TAC)

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





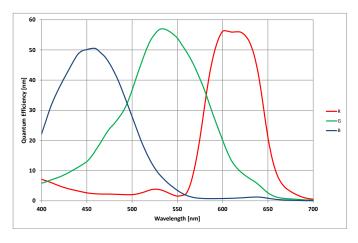
Features

INFINITY

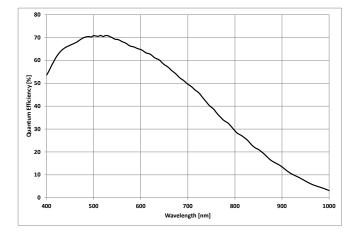
- Based on an ultra-sensitive Sony CCD sensor that provides low noise, high quantum efficiency, and accurate images in both brightfield and fluorescence.
- Color or monochrome versions available using the Sony ICX825 CCD Global Shutter sensor with large field of view (2/3" optical format) and resolution of 1392 x 1040 using 6.45 x 6.45 µm pixels.
- Easy to install with plug and play, high-speed USB 3.0 interface for fastest image delivery and simplified connectivity. Fully backward compatible with USB 2.0 supported.
- Microscopy software included for image capture, video preview and recording, measurement, annotation and a fluorescence mode for combining channels. Compatible with Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit operating systems.
- Region of Interest (ROI) option offering higher frame rates.
- Selectable 8 or 14-bit pixel data.
- Includes TWAIN and DirectX/ Direct Show support.
- Support for capture and analysis applications such as MetaMorph and Micro-Manager.
- GPIO for control of peripherals and synchronization.
- Recommended coupler: 0.67x.



Color Quantum Efficiency Curves



Monochrome Quantum Efficiency Curve



Recommended Applications

- Low Light Fluorescence
- Immunofluorescence
- Brightfield, Darkfield, DIC/Phase techniques
- DNA Analysis
- Live Cell Imaging
- Whole Slide Imaging
- Near-Infrared DIC
- Histology, Pathology and Cytology
- Calcium/Ion Imaging
- Forensic Analysis
- Semiconductor Inspection
- Metallurgical Microscopy
- Gel Documentation



Netrological Opecanisms SONY ICX825, CCD, color or monochrome Optical Format 2/3" Image Size Diagonal 11 mm Pixel Size 6.45 x 6.45 µm Resolution 1392 x 1040 pixels Region of Interest Control Any multiple of 16 x 16 pixels Carnera Specifications 60 fps at 1.4 megapixel (monochrome version) Max Frame Rate 60 fps at 1.4 megapixel (color version) Bit Depth 8 or 14-bit Binning Modes 2 x 2, 4 x 4, 8 x 8 (mono only) Exposure Control Manual and automatic control Exposure Range 3 us to 71 min (snapshot) 23 µs to 1.3 s (video) Gain Control Gain Control Manual and automatic control Trigger Modes Hardware and software triggerable Carnera Characteristics Mono: 18 DN/(n//cm²), Color: 9.5 DN/(n//cm²) Peak Sensitivity Mono: 18 DN/(n//cm²), Color: 9.5 DN/(n//cm²) Upnamic Range ~70 dB Full Well Depth ~20,000 e- (at slowest clock, lowest gain) Peak Quantum Efficiency 57% (color), 71 % (mono) Read Noise ~1 e-/s at 22 °C	Sensor Specifications	
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		1.4 MP digital camera with 3m USB 3.0 cable
La50300 Power Supply: 5 V DC, 15 W		0
Ordering Information		
INFINITY 3S-1URC 1.4 MP Uncooled CCD Color USB 3.0 Camera		
INFINITY 3S-1URM 1.4 MP Uncooled CCD Monochrome USB 3.0 Camera	INFINITY3S-1URM	
5YR Protection Plan - 2 5-Year Extended Warranty with Advanced Replacement		Replacement
La050315 5 V DC, 3.0 A, 15 W Power Supply (included with camera)		
LuSDKSW Software Developer's Kit (Web Download)		Sottware Developer's Kit (Web Download)
La2000PAFL GPIO cable with leads		