Lt365R

2.8 Megapixel, High Sensitivity, High Frame Rate CCD Camera with USB 3.0



High Resolution, Low Noise CCD Imaging

The Lt365R is Lumenera's latest innovative, high performance USB 3.0 CCD camera. Easy to use, the Lt365R builds on leading edge ExView HAD II technology to deliver high quality imaging and high sensitivity in a compact camera rich in features. Low noise electronics ensure clear and sharp images rendering details with amazing accuracy. Its superior responsiveness positions it as a good choice for Near-Infrared (NIR) imaging. This industrial-grade camera is ideal for a variety of applications including traffic, tolling, high-speed inspection and machine vision. A scientific-grade variant is available for the most demanding life science applications such as digital pathology, slide scanning and ophthalmology. The Lt365R can be customized to suit OEM designs.

High Quality Images at High Speed

The Lt365R was created for speed using the latest USB 3.0 technology to deliver the fastest image delivery possible from the Sony ICX674 sensor at its highest resolution. Image captures can be synchronized using either a hardware or software trigger. FPGA-enabled performance, complemented by 128 MB of onboard memory for frame buffering, ensure dependable and reliable image delivery even in the most demanding machine vision systems. Unlike some competitive cameras, the Lt365R buffer technology delivers all frames at full speed and max resolution without introducing latency.

Plug-and-Play with No Framegrabber

The compact, robust design of this camera, measuring $43 \times 43 \times 65$ mm, allows for easy integration into tight spaces and systems. The locking USB 3.0 cabling and digital interface ensure a simple plug-and-play installation. No framegrabber is required. Simplified I/O cabling is provided through a locking Hirose connector supporting external power input along with 1 optically isolated output, 1 optically isolated input and 2 configurable I/O ports.

Maximize Camera Performance Within Your Own Application

The Lumenera Camera SDK provides a full suite of features and functions that allow you to maximize the camera's performance within your own vision application with minimal work. The SDK is compatible with all of our USB and GigE-based cameras. Microsoft DirectX/DirectShow, Windows API and .NET API interfaces are provided, allowing you the choice of application development environments from C/C++ to VB.NET or C#.NET.

Superior Technical Assistance Center

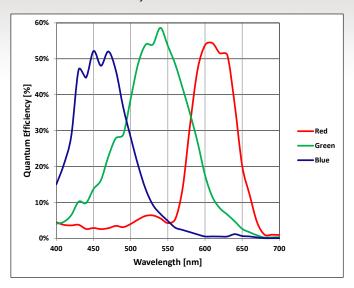
All Lumenera cameras are supported by an experienced team of technical support and imaging experts widely acclaimed in the industry. We understand your imaging needs and are here to help you get the most out of your camera.



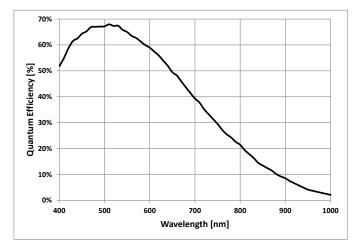
Features

- Features Sony ICX674 sensor with industry leading ExView HAD II sensor technology
- Fastest frame rates for the ICX674 sensor 53 fps at full resolution, 66 fps at (1920 x 1088) and 109 fps at VGA (640 x 480)
- Color or monochrome CCD sensor with 2/3" optical format providing a resolution of 1936 x 1456 using 4.54 x 4.54 μm pixels
- High-Speed USB 3.0 interface for fastest image delivery and simplified connectivity
- Compact, robust form factor measuring 43 x 43 x 65 mm with 4 mounting points on all 4 sides and 1 tripod (1/4"-20) mount
- Locking industrial micro USB and Hirose GPI/O connector for power and control of peripherals and synchronization of lighting
- 4 GPI/O: 1 optically isolated output, 1 optically isolated input and 2 configurable I/O ports
- 128 MB RAM frame buffer
- Simplified cabling video and full camera control over a single locking micro USB 3.0 cable
- Region of Interest (ROI) option to provide higher frame rates
- Selectable 8 or 14-bit pixel data
- Selectable tap readout to match sensor performance to your application
- Multiple data rates supported, each optimized for lowest noise performance
- FCC Class B, CE Certified
- DirectShow compatible
- Software compatible with Windows 10, Windows 8.1, Windows 7, Linux, 32 and 64bit operating systems
- Complete Windows and Linux SDKs available
- Four (4) year warranty

Color Quantum Efficiency Curves

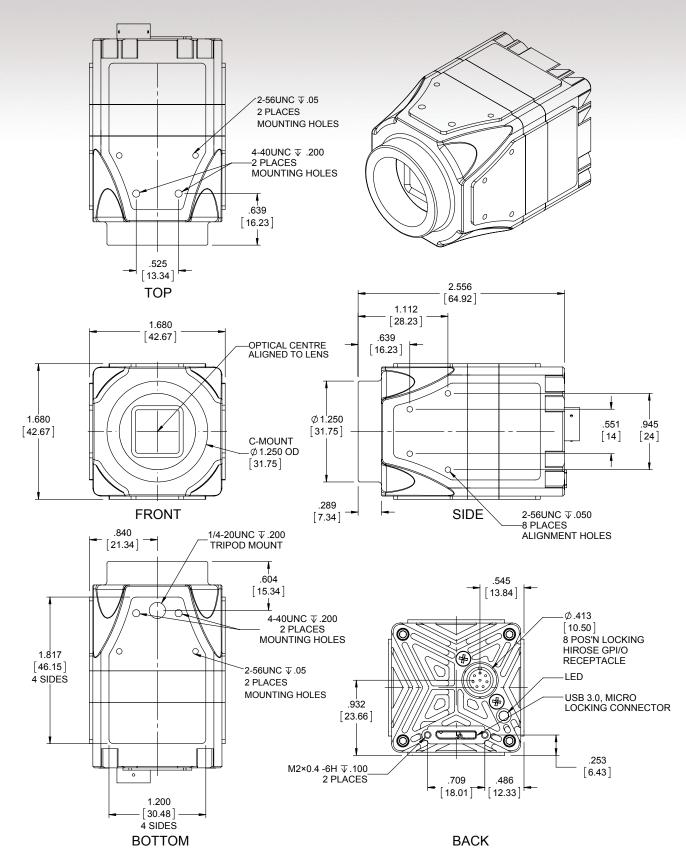


Monochrome Quantum Efficiency Curve



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ALL DIMENSIONS DISPLAYED AS INCHES [MM]

