Lw070 & Lw075

VGA USB 2.0 Camera



High Image Quality in Low Light Conditions

Lumenera's Lw070 series of cameras are designed to be used in a wide variety of industrial applications, particularly in low light conditions. Color product models are available. With 640 x 480 resolution and on-board processing these cameras deliver outstanding image quality and value for industrial and scientific imaging applications.

Captures Objects in High Speed Motion

Electronic Global Shutter provides capabilities similar to a mechanical shutter, allowing simultaneous integration of the entire pixel array, and then stopping exposure while image data is read out. Ideal for capturing objects in high-speed motion.

Live Stream and Still Image Capturing

Uncompressed images in live streaming video and still image capture are provided across a USB 2.0 digital interface. No framegrabber is required. Advanced camera control is available through a complete Software Developer's Kit, with sample code available to quickly integrate camera functions into OEM applications.

Customized Form Factors

Hardware and software based synchronization trigger is provided standard. On-board memory is available for frame buffering. Lw070 series cameras are offered in both enclosed and board-level form. Custom form factor (sizes) can be provided.

Application

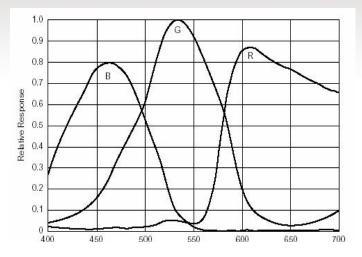
The Lumenera Camera SDK provides a full suite of features and functions that allow you to maximize the performance of your camera within your application. The SDK is compatible with all USB and GigE based cameras. Microsoft DirectX/DirectShow, Windows API and .NET API interfaces are provided allowing you the choice of application development environments from C/C++ to VB.NET or C#.NET. Full inline IntelliSense autocompletion and documentation is provided with the .NET API interface and is accompanied by a full API manual describing all the camera functions and properties.

Features

- · Global electronic shutter
- · Excellent sensitivity
- Color, interline, progressive scan, 640 x 480 resolution
- 60 fps at full 640 x 480
- +100 fps 320 x 240 (binning mode)
- Auto white balance & s/w adjustable exposure
- On-board image buffer
- GPI/Os for control of peripherals and synchronization of lighting (4in/4out)
- FCC Class B, CE
- Select 8 or 12-bit pixel data
- Simplified cabling video, power and full camera control over a single USB cable
- DirectShow compatible
- C-mount provided
- Software compatible with Windows 10, Windows 8.1, Windows 7, Linux, 32 and 64bit operating systems
- Complete SDK available
- Four (4) year warranty



Color Quantum Efficiency Curves

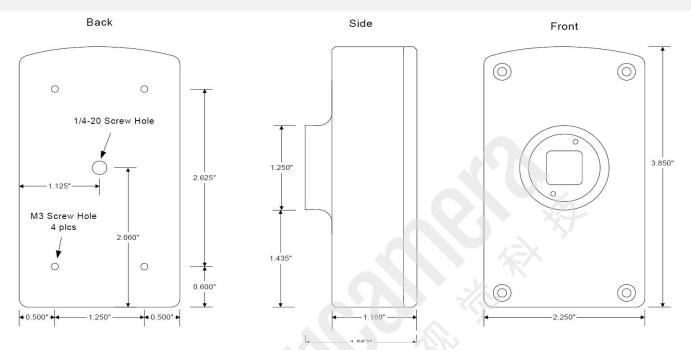


Ordering Options	
Lw070C	VGA Color Camera Module (Board Level)
Lw075C	VGA Color Enclosed Camera
LuSDK	Software Developer's Kit (Web download)
La050315	Transformer, 5VDC, 15W, 3A, International
Camera Includes	
Lu802	3M USB 2.0 A to B cable
Lu905	Tripod mount
Customization Options	`_
-WOIR	Without IR Cut Filter (in optical path)
-CS	With Adjustable CS-mount lens mount

Image Sensor Optical Format 1/3" Active Area 5.8 x 4.9 mm Pixel Size 7.4 x 7.4 um Resolution Camera Specifications Frame Rate 60 fps Bit Depth 8 or 12-bits Exposure Control Manual and automatic control Exposure Range (snapshot) Gain Control Manual and automatic control Gain Range 1 to 23.82 X White Balance Manual and automatic control Camera Characteristics Dynamic Range 57 dB Full Well Capacity 42.000 e- Read Noise Dark Current Noise 42.001e/s Mass 150 g (enclosed) Dimensions (HxWxD) Dimensions (HxWxD) Dimensions (HxWxD) Dimensions (HxWxD) Doperating Temperature 0 to 50 °C Storage Temperature Operating Systems Vindows 10, Windows 8.1, Windows 7, Linux, 32 and 64-bit operating systems Software Interfaces Power Requirement Windows API, NET, DirectX Power and Emissions Power Requirements	Sensor Specifications	
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Operating Temperature Storage Temperature -30 to 70 °C Operating Humidity 0 to 95 %, non condensing Shock / Vibration 50 g shock, 5 g (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, Windows 8.1, Windows 7, Linux, 32 and 64-bit operating systems Software Interfaces Windows API, .NET, DirectX Power and Emissions Power Consumption -2.5W USB bus power (optional La050315 power supply may be required for PCs with shared USB resources) Emissions Compliances FCC Class BE, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port	Dimensions (HxWxD)	
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Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Software Interfaces Power and Emissions Power Consumption -2.5W USB bus power (optional La050315 power supply may be required for PCs with shared USB resources) Emissions Compliances FCC Class BE, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port	Storage Temperature	-30 to 70 °C
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Camera Software Operating Systems Windows 10, Windows 8.1, Windows 7, Linux, 32 and 64-bit operating systems Software Interfaces Windows API, .NET, DirectX Power and Emissions Power Consumption 2.5W USB bus power (optional La050315 power supply may be required for PCs with shared USB resources) Emissions Compliances FCC Class BE, CE Certified Hazardous Materials Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port	Shock / Vibration	50 g shock, 5 g (2 to 200 Hz) vibration
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and 64-bit operating systems Software Interfaces Windows API, .NET, DirectX Power and Emissions Power Consumption ~2.5W USB bus power (optional La050315 power supply may be required for PCs with shared USB resources) Emissions Compliances FCC Class BE, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port		
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Hazardous Materials Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port	Power Requirement	ply may be required for PCs with shared USB
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System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port	Hazardous Materials	RoHS, WEEE Compliant
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Recommended PC Specs • 512 MB RAM • 60 MB hard drive free space or more USB 2.0 Port	System Requirements	
	Recommended PC Specs	512 MB RAM60 MB hard drive free space or moreUSB 2.0 Port



Enclosed Mechanical Drawings



Board Level Mechanical Drawings

