

PixeLINK offers a line of USB 2.0 digital imaging solutions for Original Equipment Manufacturers

- USB 2.0 Interface
- Color/Monochrome
- 2 Global and Rolling Shutter
- 40-48 MHz Pixel Clocks
- 1.3 to 6.6 Megapixel
- General Purpose Outputs
- External Trigger
- On-Board Flat Field Correction
- Excellent Anti-Blooming
- ROI Sub-Windowing
- Software Development Kit
- Direct Show Compatible
- Powerful, Easy to Use and Cost Effective
- Generic Commands for all Camera Models
- Capture and save still images and AVI video clips
- Free Technical Assistance
- Fast and flexible access to streaming video

PixeLINK Software Development Kit

Providing full control of all camera functions

The PixeLINK SDK contains a full Application Programming Interface, along with a sample application with full source code, LabVIEW wrappers and documentation. The SDK is compatible with Visual Basic and Visual C++ on Windows™ 2000 and XP platforms.

With the SDK, developers can integrate PixeLINK cameras into their custom applications with ease. A small set of API functions can be used to determine and control the feature set required for your application. Integration is simple and fast.

The SDK includes *PixeLINK Capture OEM*, a free sample application that controls all the camera functions and demonstrates camera performance. *PixeLINK Capture OEM* provides integrators with examples of how a PixeLINK camera can be integrated into a complex application. An API function call log shows the sequence of API calls used and their parameter values any time a control on the GUI is accessed.

PixeLINK Capture OEM also acts as a camera configuration utility and provides access to all camera features that are not available with standard software packages.

PixeLINK supplies full technical support with the purchase of the SDK. The support includes access to our advanced support area on the PixeLINK website, free software upgrades as well as assistance from our experienced support team.



USB 2.0 Digital Imaging Solutions for Machine Vision

PL-B700U series are high-performance megapixel color and monochrome cameras designed for machine vision and industrial inspection applications. The cameras are complemented by on-board look-up tables, multiple triggering modes, flexible ROI sub-windowing and excellent anti-blooming. Real-time flat-field correction provides image quality similar to high-end CCD cameras

Accessories

PixeLINK provides accessories for interfacing and mounting your camera as well as a software development kit if required.

Contact us, visit our web site or discuss with a PixeLINK Representative to ensure you have the accessories that you require.

For more information, contact:

PixeLINK

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<http://www.pixelink.com>

Camera Model >	PL-B741U BL *PL-B741EU-BL	PL-B742U BL	PL-B771U BL	PL-B774U BL	PL-B776U BL	PL-B781U BL	PL-B782U BL
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Camera Specifications							
Color / Mono	Mono	Color	Mono	Color	Color	Mono	Color
Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1600 x 1200	2048 x 1536	2208 x 3000	2208 x 3000
Frame Rate at Full Resolution	24*	24*	27**	18**	10**	4**	4**
Sensor Type	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS
Shutter Type	Global	Global	Rolling	Rolling	Rolling	Rolling	Rolling
Lens Format	C 2/3"	C 2/3"	C 1/2"	C 1/2"	C 1/2"	C 1"	C 1"
Pixel Pitch	6.7 µm	6.7 µm	5.2 µm	4.2 µm	3.2 µm	3.5 µm	3.5 µm
Sensor Diagonal	11.01 mm	11.01 mm	8.52 mm	8.40 mm	8.19 mm	13.1 mm	13.1 mm
Bit Depth	8 or 10	8 or 10	8 or 10	8 or 10	8 or 10	8 or 10	8 or 10
Power Consumption (Watts)	2.9W	2.9W	3.2W	3.2W	3.2W	3.7W	3.7W
Variable ROI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interface (USB 2.0)	6 pins x 2	6 pins x 2	6 pins x 2	6 pins x 2	6 pins x 2	6 pins x 2	6 pins x 2

* Frame rates will vary based on host system variables and configuration * PL-B741EU BL Sensor has enhanced responsivity from 650nm to 1000nm
 ** Non-triggered frame rates. Triggered frame rates will be slower

Camera Features via USB 2.0							
Trigger Options	Hardware - Optically Isolated 5-12V @ 4-11mA, Software and Free Running						
General Purpose Outputs	4 Optically Isolated - Maximum 40V Differential, Maximum 15mA						
Weight	80g	80g	80g	80g	80g	80g	80g
Operating Temperature	0° - 50°C	0° - 50°C	0° - 50°C	0° - 50°C	0° - 50°C	0° - 50°C	0° - 50°C

Image Quality Measures	(See the Knowledge Base at http://www.pixelink.com for a description of Image Quality Measures)						
Responsivity (Peak)	9.4DN/(nJ/cm ²)	7.3DN/(nJ/cm ²)	11.8DN/(nJ/cm ²)	2.7DN/(nJ/cm ²)	1.8DN/(nJ/cm ²)	6.7DN/(nJ/cm ²)	7.5DN/(nJ/cm ²)
Dynamic Range	54.6 dB	54.6 dB	60 dB	60 dB	60 dB	60 dB	60 dB
FPN	< 1%	< 1%	< 1%	< 1%	< 1%	< 1%	< 1.5%
PRNU	< 1%	< 1.5%	< 1%	< 1%	< 1%	< 2%	< 3%
Read Noise	< 2 DN	< 2 DN	< 1 DN	< 1 DN	< 1 DN	< 1 DN	< 1 DN

Software							
PixeLINK Capture OEM	Free Download at http://www.pixelink.com						
SDK (incl. LabView Wrappers)	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Direct Show Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows Compatible	2000/XP	2000/XP	2000/XP	2000/XP	2000/XP	2000/XP	2000/XP

