

# CAMERAS

INDUSTRIAL | MICROSCOPY | AUTOFOCUS












# INDUSTRIAL MODELS

## PL-D SERIES

Satisfy your most demanding imaging application requirements with our wide range of high performance industrial cameras and custom OEM imaging solutions.














































- » Available in 1.3 to 15.0 MP resolutions
- » High resolution
- » Low noise images
- » Fast frame rates
- » Software Development Kit

### 1/1.2" Sensor Camera




























PL-D752				SONY IMX174	1920x1200	2.3MP
	5.86 μm		ENCLOSED		TRIGGER	
	13.40 mm		BOARD LEVEL		COLOR	
	167 fps		MONO			 GLOBAL






















### 1" Sensor Cameras

PL-D734	CMOSIS CMV4000	2048x2048	4.2MP	PL-D759	SONY IMX255	4096x2160	9.0MP
 5.5 $\mu\text{m}$	 ENCLOSED	 TRIGGER		 3.45 $\mu\text{m}$	 ENCLOSED	 TRIGGER	
 15.93 mm	 BOARD LEVEL	 COLOR		 16.10 mm	 BOARD LEVEL	 COLOR	
 90 fps	 MONO		 GLOBAL	 48 fps	 MONO		 GLOBAL
PL-D734NIR	CMOSIS CMV4000	2048x2048	4.2MP	PL-D799	SONY IMX267	4096x2160	9.0MP
 5.5 $\mu\text{m}$	 ENCLOSED	 TRIGGER		 3.45 $\mu\text{m}$	 ENCLOSED	 TRIGGER	
 15.93 mm	 BOARD LEVEL			 16.10 mm	 BOARD LEVEL	 COLOR	
 90 fps	 NIR		 GLOBAL	 32 fps	 MONO		 GLOBAL
PL-D725	ON Semi Vita 5000	2592x2048	5.3MP	PL-D726	ON Semi IBIS 4	2208x3000	6.6MP
 4.8 $\mu\text{m}$	 ENCLOSED	 TRIGGER		 3.5 $\mu\text{m}$			
 15.86 mm	 BOARD LEVEL	 COLOR		 13.05 mm	 BOARD LEVEL		
 76 fps	 MONO		 GLOBAL	 5.3 fps	 MONO		 ROLLING



















### 1.1" Sensor Cameras

PL-D7512	SONY IMX253	4096x3000	12.2MP	PL-D7912	SONY IMX304	4096x3000	12.2MP	PL-D757	SONY IMX420	3208x2200	7.1MP
 3.45 $\mu\text{m}$	 ENCLOSED	 TRIGGER		 3.45 $\mu\text{m}$	 ENCLOSED	 TRIGGER		 4.5 $\mu\text{m}$	 ENCLOSED	 TRIGGER	
 17.60 mm	 BOARD LEVEL	 COLOR		 17.60 mm	 BOARD LEVEL	 COLOR		 17.60 mm	 BOARD LEVEL	 COLOR	
 35 fps	 MONO	 GLOBAL		 23 fps	 MONO	 GLOBAL		 60 fps	 MONO	 GLOBAL	



































































## 1/2.5-1/2.3" Sensor Cameras

PL-D775	ON Semi Mono MT9P031 Color MT9P006	2592x1944	5.0MP	PL-D7715	ON Semi MT9F002	4608x3288	15.0MP
 2.2 µm	 ENCLOSED	 AUTOFOCUS		 1.4 µm	 ENCLOSED	 AUTOFOCUS	
 7.13 mm	 BOARD LEVEL	 TRIGGER		 7.93 mm	 BOARD LEVEL	 TRIGGER	
 14 fps	 MONO	 COLOR	 ROLLING	 13 fps	 COLOR	 ROLLING	

## 1/2" Sensor Cameras

PL-D721	ON Semi Vita 1300	1280x1024	1.3MP	PL-D721P	ON Semi Python 1300	1280x1024	1.3MP
 4.8 µm	 ENCLOSED	 AUTOFOCUS		 4.8 µm	 ENCLOSED		
 7.87 mm	 BOARD LEVEL	 TRIGGER		 7.87 mm	 BOARD LEVEL	 TRIGGER	
 151 fps	 MONO	 COLOR	 GLOBAL	 212 fps	 MONO		 GLOBAL

## 2/3" Sensor Cameras

PL-D732	CMOSIS CMV2000	2048x1088	2.2MP	PL-D755	SONY IMX250	2448x2048	5.0MP
 5.5 µm	 ENCLOSED	 AUTOFOCUS		 3.45 µm	 ENCLOSED	 AUTOFOCUS	
 12.70 mm	 BOARD LEVEL	 TRIGGER		 11.10 mm	 BOARD LEVEL	 TRIGGER	
 170 fps	 MONO	 COLOR	 GLOBAL	 81 fps	 MONO	 COLOR	 GLOBAL
PL-D732NIR	CMOSIS CMV2000	2048x1088	2.2MP	PL-D795	SONY IMX264	2448x2048	5.0MP
 5.5 µm	 ENCLOSED	 AUTOFOCUS		 3.45 µm	 ENCLOSED	 TRIGGER	
 12.70 mm	 BOARD LEVEL	 TRIGGER		 11.10 mm	 BOARD LEVEL	 COLOR	
 170 fps	 NIR		 GLOBAL	 36 fps	 MONO		 GLOBAL
PL-D722	ON Semi Vita 2000	1920x1200	2.3MP	PL-D729	ON Semi Mano 9600	3840x2484	9.5MP
 4.8 µm	 ENCLOSED	 AUTOFOCUS		 2.4 µm	 ENCLOSED	 AUTOFOCUS	
 10.87 mm	 BOARD LEVEL	 TRIGGER		 10.98 mm	 BOARD LEVEL		
 87 fps	 MONO	 COLOR	 GLOBAL	 22 fps	 MONO		 ROLLING
PL-D753	SONY IMX421	1936x1464	2.8MP				
 4.5 µm	 ENCLOSED	 AUTOFOCUS					
 11.0 mm	 BOARD LEVEL	 TRIGGER					
 143 fps	 MONO	 COLOR	 GLOBAL				

# MICROSCOPY MODELS

## 1/2.3" Sensor Camera

**M15-CYL** ON Semi MT9F002 4608x3288 15.0MP

1.4  $\mu\text{m}$  ENCLOSED COLOR  
7.93 mm  
13 fps ROLLING

## M-SERIES CMOS USB 3.0



- » Provide quality and versatility with smaller form factor
- » High-resolution imaging ideal for any laboratory setting
- » Use for bright field and dark field microscopy
- » Consistent, high-quality image acquisition
- » Excellent color reproduction
- » 1.3 MP to 15.0 MP



## 1/2" Sensor Camera

**M1-CYL** ON Semi Vita 1300 1280x1024 1.3MP

4.8  $\mu\text{m}$  ENCLOSED COLOR  
7.87 mm MONO  
151 fps GLOBAL

## 2/3" Sensor Cameras

**M2-CYL** CMOSIS CMV2000 2048x1088 2.2MP

5.5  $\mu\text{m}$  ENCLOSED COLOR  
12.70 mm MONO  
170 fps GLOBAL

**M5D-CYL** SONY IMX250 2448x2048 5.0MP

3.45  $\mu\text{m}$  ENCLOSED COLOR  
11.10 mm MONO  
81 fps GLOBAL

## 1" Sensor Cameras

**M4-CYL** CMOSIS CMV4000 2048x2048 4.2MP

5.5  $\mu\text{m}$  ENCLOSED COLOR  
15.93 mm MONO  
90 fps GLOBAL

**M5-CYL** ON Semi Vita 5000 2592x2048 5.3MP

4.8  $\mu\text{m}$  ENCLOSED COLOR  
15.86 mm MONO  
76 fps GLOBAL

**M9-CYL** SONY IMX255 4096x2160 9.0MP

3.45  $\mu\text{m}$  ENCLOSED COLOR  
16.10 mm MONO  
48 fps GLOBAL

## 1.1" Sensor Cameras

**M12-CYL** SONY IMX253 4096x3000 12.2MP

3.45  $\mu\text{m}$  ENCLOSED COLOR  
17.60 mm MONO  
35 fps GLOBAL

**M12B-CYL** SONY IMX304 4096x3000 12.2MP

3.45  $\mu\text{m}$  ENCLOSED COLOR  
17.60 mm MONO  
23 fps GLOBAL

## AVAILABLE INTERFACES

Additional FireWire, USB 3.0, USB 2.0 and GigE camera models are available on [pixelink.com](http://pixelink.com)

USB 3.0



USB 2.0



GigE



FireWire



## Autofocus Liquid Lens Cameras

### FEATURES

- » One push-autofocus, move focus from one point to another at high speed
- » Seamless integration of a compact, low-power durable liquid lens
- » Get a sharp image from a few centimeters to infinity in less than 20 ms
- » Get started quickly by integrating your autofocus application with the Pixelink SDK

### ADVANTAGES

- » Large range of optical variation
- » Sturdiness - tested for over 100 million cycles and shows zero performance degradation
- » Shock resistance - excellent response before and after shock tests
- » High-speed - reconfigure in tens of milliseconds
- » Low power consumption - lens dissipates about 15mW; ten times lower than other systems

## Software Development Kit (SDK)

**Providing full control of all camera functions, the Pixelink SDK is the software package of choice for developers and system integrators**

### FEATURES

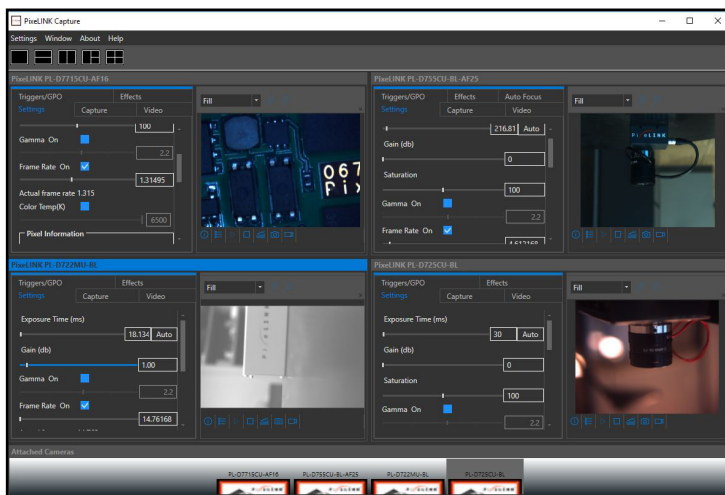
- » Fast and easy integration
- » Free technical support
- » Powerful, easy to use interface
- » Get started with a free 30 day trial
- » Compatible with Microsoft Windows and Linux

# PIXELINK CAPTURE SOFTWARE

## Powerful multi-camera image capture software

Pixelink Capture is a real-time, interactive, multi-camera software application compatible with all Pixelink cameras. With a built-in autofocus feature, Pixelink Capture offers tremendous flexibility and power allowing the ability to configure and test multi-camera vision applications.

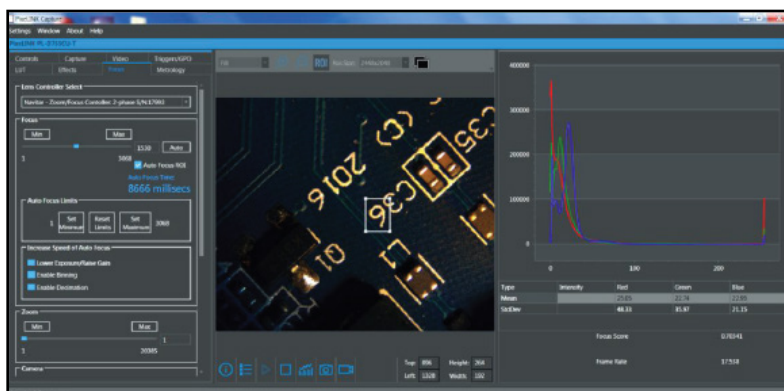
The multi-window environment includes a preview window, a configuration window, and a real-time graphical histogram. Users have the ability to adjust image size, color and exposure interactively through an easy-to-use control interface prior to image or video clip capture. The camera begins streaming at the point the application is launched.



Four Camera Layout

### Important Features

- Real-time video streaming
- Built-in autofocus application
- Resizable region of interest (ROI)
- Customizable multi-camera layout
- Image and video capture
- Trigger and GPO controls
- Supports Windows 7 and above



Integrated Lens Control of Focus and Zoom

### Enhanced Functionality

- Integrated lens control of zoom and focus for Navitar motorized lenses
- Accurate autofocus option for Navitar fine focus mechanisms
- Advanced measurement tools for on screen measurement of length, area and pixel location

# LENS AND CAMERA SOLUTIONS

Optical technologies from Navitar and Pixelink  
create an unbeatable imaging solution

Camera and Lens Pairing Solutions					
Model	Sensor	Sensor Format	Resolv4K	12X	6X
PL-D721CU-T	ON Semi Vita 1300	1/2"		X	X
PL-D721MU-T	ON Semi Vita 1300	1/2"		X	X
PL-D755CU-T	Sony IMX250	2/3"	X	X	X
PL-D755MU-T	Sony IMX250	2/3"	X	X	X
PL-D759CU-T	Sony IMX255	1"	X		X
PL-D759MU-T	Sony IMX255	1"	X		X
PL-D7512CU-T	Sony IMX253	1.1"	X		
PL-D7512MU-T	Sony IMX253	1.1"	X		

## Seamlessly Integrated

We've simplified the lens and camera selection process by pairing proven high-speed USB 3.0 Pixelink® industrial camera models with Navitar® high magnification imaging lens systems to meet the needs of your most demanding machine vision application.

The Resolv4K, 12X Zoom and Zoom 6000 lens systems seamlessly integrate with Pixelink CMOS cameras giving you high-resolution, low-noise digital imaging solutions backed by industry leading sales and technical support.

**CONTACT A NAVITAR ACCOUNT  
REPRESENTATIVE FOR MORE DETAILS**

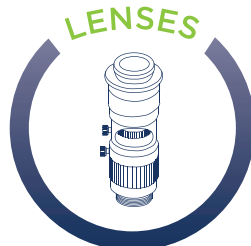




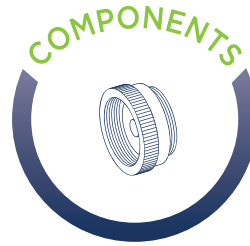
IMAGING SYSTEM EXPERTS



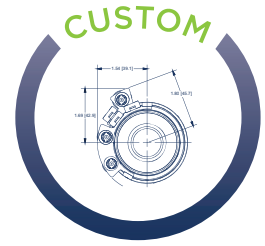
INDUSTRIAL  
MICROSCOPY  
AUTOFOCUS



INDUSTRIAL ZOOMS  
FIXED MACHINE VISION  
LARGE FORMAT  
4K HDR



ILLUMINATION  
LENS ATTACHMENTS  
MICROSCOPE OBJECTIVES



LENS/SENSOR INTEGRATION  
LENS & CAMERA DESIGN  
SYSTEM ANALYSIS

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