Pixelink®
A NAVITAR COMPANY

CAMERAS

INDUSTRIAL | MICROSCOPY | AUTOFOCUS

NAVITAR®
IMAGING SYSTEM EXPERTS

PL-D SERIES

USB 3.0

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

5.5 µm	✓ ENCLOSED	✓ TRIGGER	
15.93 mm	✓ BOARD LEVEL	COLOR	
90 fps	MONO		GLOBAL

PL-D759	SONY IMX255	4096x2160	9.0MP

3.45 µm	✓ ENCLOSED	✓ TRIGGER	
16.10 mm	✓ BOARD LEVEL	COLOR	
48 fps	MONO		GLOBAL

PL-D734NIR	CMOSIS CMV4000	2048x2048	4.2MP

5.5 µm	✓ ENCLOSED	✓ TRIGGER	
15.93 mm	✓ BOARD LEVEL		
90 fps	NIR		GLOBAL

PL-D799	SONY IMX267	4096x2160	9.0MP

3.45 µm	✓ ENCLOSED	✓ TRIGGER	
16.10 mm	✓ BOARD LEVEL	COLOR	
32 fps	MONO		GLOBAL

PL-D725	ON Semi Vita 5000	2592x2048	5.3MP

4.8 µm	✓ ENCLOSED	✓ TRIGGER	
15.86 mm	✓ BOARD LEVEL	COLOR	
76 fps	MONO		GLOBAL

PL-D726	ON Semi IBIS 4	2208x3000	6.6MP

3.5 µm			
13.05 mm	✓ BOARD LEVEL		
5.3 fps	MONO		ROLLING

1.1" Sensor Cameras

PL-D7512	SONY IMX253	4096x3000	12.2MP

3.45 µm	✓ ENCLOSED	✓ TRIGGER	
17.60 mm	✓ BOARD LEVEL	COLOR	
35 fps	MONO		GLOBAL

PL-D7912	SONY IMX304	4096x3000	12.2MP

3.45 µm	✓ ENCLOSED	✓ TRIGGER	
17.60 mm	✓ BOARD LEVEL	COLOR	
23 fps	MONO		GLOBAL

PL-D757	SONY IMX420	3208x2200	7.1MP

4.5 µm	✓ ENCLOSED	✓ TRIGGER	
17.60 mm	✓ BOARD LEVEL	COLOR	
60 fps	MONO		GLOBAL

1/2.5 - 1/2.3" Sensor Cameras

PL-D775	ON Semi Mono MT9P031 / Color MT9P006	2592x1944	5.0MP

- 2.2 µm
- 7.13 mm
- 14 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- ROLLING

PL-D7715	ON Semi MT9F002	4608x3288	15.0MP

- 1.4 µm
- 7.93 mm
- 13 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- COLOR
- ✓ AUTOFOCUS
- ✓ TRIGGER
- ROLLING

1/2" Sensor Cameras

PL-D721	ON Semi Vita 1300	1280x1024	1.3MP

- 4.8 µm
- 7.87 mm
- 151 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- GLOBAL

PL-D721P	ON Semi Python 1300	1280x1024	1.3MP

- 4.8 µm
- 7.87 mm
- 212 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ TRIGGER
- GLOBAL

2/3" Sensor Cameras

PL-D732	CMOSIS CMV2000	2048x1088	2.2MP

- 5.5 µm
- 12.70 mm
- 170 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- GLOBAL

PL-D755	SONY IMX250	2448x2048	5.0MP

- 3.45 µm
- 11.10 mm
- 81 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- GLOBAL

PL-D732NIR	CMOSIS CMV2000	2048x1088	2.2MP

- 5.5 µm
- 12.70 mm
- 170 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- NIR
- ✓ AUTOFOCUS
- ✓ TRIGGER
- GLOBAL

PL-D795	SONY IMX264	2448x2048	5.0MP

- 3.45 µm
- 11.10 mm
- 36 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ TRIGGER
- COLOR
- GLOBAL

PL-D722	ON Semi Vita 2000	1920x1200	2.3MP

- 4.8 µm
- 10.87 mm
- 87 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- GLOBAL

PL-D729	ON Semi Mano 9600	3840x2484	9.5MP

- 2.4 µm
- 10.98 mm
- 22 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ROLLING

PL-D753	SONY IMX421	1936x1464	2.8MP

- 4.5 µm
- 11.0 mm
- 143 fps
- ✓ ENCLOSED
- ✓ BOARD LEVEL
- MONO
- ✓ AUTOFOCUS
- ✓ TRIGGER
- COLOR
- GLOBAL

MICROSCOPY MODELS

1/2.3" Sensor Camera

M15-CYL	ON Semi MT9F002	4608x3288	15.0MP

- 1.4 µm
- 7.93 mm
- 13 fps
- ✓ ENCLOSED
- COLOR
- ROLLING

1/2" Sensor Camera

M1-CYL	ON Semi Vita 1300	1280x1024	1.3MP

- 4.8 µm
- 7.87 mm
- 151 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

2/3" Sensor Cameras

M2-CYL	CMOSIS CMV2000	2048x1088	2.2MP

- 5.5 µm
- 12.70 mm
- 170 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

M5D-CYL	SONY IMX250	2448x2048	5.0MP

- 3.45 µm
- 11.10 mm
- 81 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

1" Sensor Cameras

M4-CYL	CMOSIS CMV4000	2048x2048	4.2MP

- 5.5 µm
- 15.93 mm
- 90 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

M5-CYL	ON Semi Vita 5000	2592x2048	5.3MP

- 4.8 µm
- 15.86 mm
- 76 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

M9-CYL	SONY IMX255	4096x2160	9.0MP

- 3.45 µm
- 16.10 mm
- 48 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

1.1" Sensor Cameras

M12-CYL	SONY IMX253	4096x3000	12.2MP

- 3.45 µm
- 17.60 mm
- 35 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

M12B-CYL	SONY IMX304	4096x3000	12.2MP

- 3.45 µm
- 17.60 mm
- 23 fps
- ✓ ENCLOSED
- COLOR
- MONO
- GLOBAL

M-SERIES CMOS USB 3.0

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

Pixelink®
A NAVITAR COMPANY

AVAILABLE INTERFACES

Additional FireWire, USB 3.0, USB 2.0 and GigE camera models are available on 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.
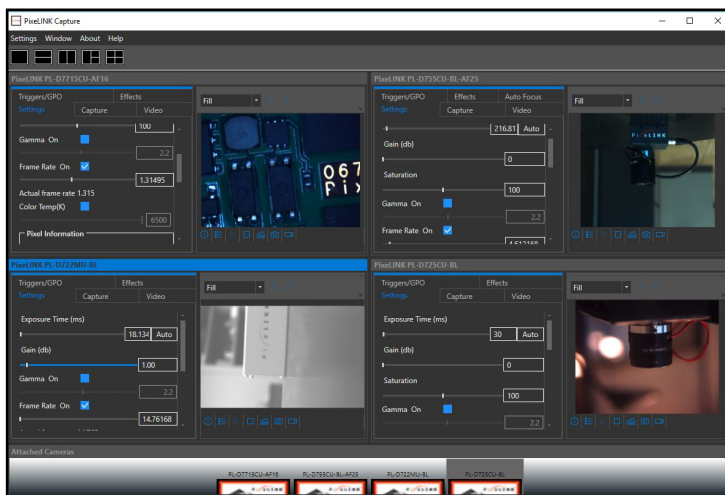
Four Camera Layout

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
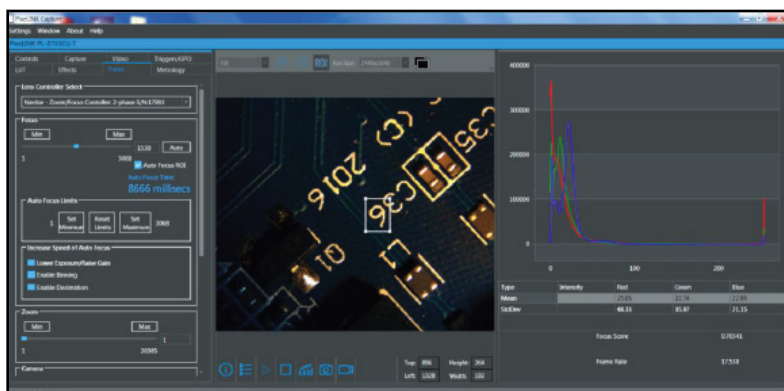
Integrated Lens Control of Focus and Zoom

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.

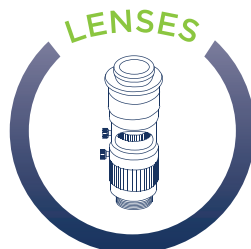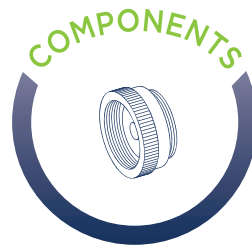**CONTACT A NAVITAR ACCOUNT REPRESENTATIVE FOR MORE DETAILS**

NAVITAR

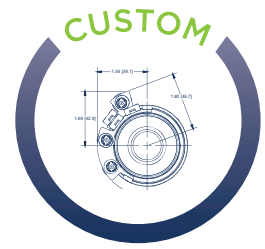## IMAGING SYSTEM EXPERTS

CAMERAS

INDUSTRIAL
MICROSCOPY
AUTOFOCUS

LENSES

INDUSTRIAL ZOOMS
FIXED MACHINE VISION
LARGE FORMAT
4K HDR

COMPONENTS

ILLUMINATION
LENS ATTACHMENTS
MICROSCOPE OBJECTIVES

CUSTOM

LENS/SENSOR INTEGRATION
LENS & CAMERA DESIGN
SYSTEM ANALYSIS