# MACHINE VISION SOLUTIONS

**Pixelink®**
A NAVITAR COMPANY

## USB 3.0 Cameras

The Pixelink PL-D700 USB 3.0 CMOS line of cameras have been designed to provide quality and versatility with small form factor and remote head capabilities. The USB 3.0 interface provides outstanding real-time capability along with high bandwidth rates of 5GB/s.

## Applications

» Medical Imaging
» Inspection
» Metrology
» Strength Testing
» Pharmaceutical Inspection
» Biotechnolgy
» Biometrics
» Robotics
» ADAS
» Microscopy

## Important Features

» Available in 1 to 20 MP resolutions
» High resolution
» Low noise
» Fast frame rates
» Software Development Kit
» Capture Software

U3V Compliant  •  Fast & Easy Integration  •  Free Tech Support

# USB 3.0 Camera Models

New HDR and Polarized Models Offer Superior Image Quality for for OEM Industrial Applications

| Model | Mega Pixels | Sensor Size | Sensor Diagonal | Pixel Pitch (µm) | Sensor | Frame Rate (fps) | Color Space | Bit Depth | Shutter Type |
|---|---|---|---|---|---|---|---|---|---|
| PL-D7512 | 12 MP | 1.1" | 17.6 mm | 3.45 | Sony IMX253 | 33 | Color/Mono | 12 | Global |
| PL-D7912 | 12 MP | 1.1" | 17.6 mm | 3.45 | Sony IMX304 | 23 | Color/Mono | 12 | Global |
| ★ PL-D757 (HDR) | 7 MP | 1.1" | 17.6 mm | 4.5 | Sony IMX420 | 57 | Color/Mono | 12 | Global |
| PL-D797 | 7 MP | 1.1" | 17.6 mm | 4.5 | Sony IMX428 | 27 | Color/Mono | 12 | Global |
| ★ PL-D7620 | 20 MP | 1" | 15.9 mm | 2.4 | Sony IMX183 | 20 | Color/Mono | 12 | Rolling |
| PL-D759 | 9 MP | 1" | 16.1 mm | 3.45 | Sony IMX255 | 45 | Color/Mono | 12 | Global |
| PL-D799 | 9 MP | 1" | 16.1 mm | 3.45 | Sony IMX267 | 32 | Color/Mono | 12 | Global |
| PL-D726 | 7 MP | 1" | 13.0 mm | 3.5 | ON Semi IBIS4 | 5 | Mono | 10 | Rolling |
| PL-D725 | 5 MP | 1" | 15.9 mm | 4.8 | ON Semi Vita 5000 | 75 | Color/Mono | 10 | Global |
| PL-D734 | 4 MP | 1" | 15.9 mm | 5.5 | CMOSIS CMV4000 | 90 | Color/Mono/NIR | 10 | Global |
| PL-D752 | 2 MP | 1/1.2" | 13.4 mm | 5.86 | Sony IMX174 | 137 | Color/Mono | 12 | Global |
| PL-D729 | 9 MP | 2/3" | 11.0 mm | 2.4 | ON Semi Mano 9600 | 22 | Mono | 10 | Rolling |
| ★ PL-D755MU-POL (Polarized) | 5 MP | 2/3" | 11.1 mm | 3.45 | SonyIMX250MZR | 36 | Mono | 12 | Global |
| PL-D755 | 5 MP | 2/3" | 11.1 mm | 3.45 | Sony IMX250 | 80 | Color/Mono | 12 | Global |
| PL-D795 | 5 MP | 2/3" | 11.1 mm | 3.45 | Sony IMX264 | 36 | Color/Mono | 12 | Global |
| ★ PL-D753 (HDR) | 3 MP | 2/3" | 11.0 mm | 4.5 | Sony IMX421 | 141 | Color/Mono | 12 | Global |
| PL-D732 | 2 MP | 2/3" | 12.7 mm | 5.5 | CMOSIS CMV2000 | 170 | Color/Mono/NIR | 10 | Global |
| PL-D722 | 2 MP | 2/3" | 10.9 mm | 4.8 | ON Semi Vita 2000 | 87 | Color/Mono | 10 | Global |
| PL-D721 | 1 MP | 1/2" | 7.9 mm | 4.8 | ON Semi Vita 1300 | 151 | Color/Mono | 10 | Global |
| PL-D7715 | 15 MP | 1/2.3" | 7.9 mm | 1.5 | ON Semi MT9F002 | 13 | Color | 12 | Rolling |
| PL-D775C | 5 MP | 1/2.5" | 7.1 mm | 2.2 | ON Semi MT9P006 | 14 | Color | 12 | Rolling |
| PL-D775M | 5 MP | 1/2.5" | 7.1 mm | 2.2 | ON Semi MT9P031 | 14 | Mono | 12 | Rolling |

★ New Models

# The Choice Is Yours

**Choose Your Sensor**

Pixelink offers a variety of Global and Rolling shutter sensors differing in resolution, size, frame rate with both color and monochrome options.

**Get The Right Interface**

USB 3.0 is a fast, cost effective, simple interface. 10 GigE coming in 2020.
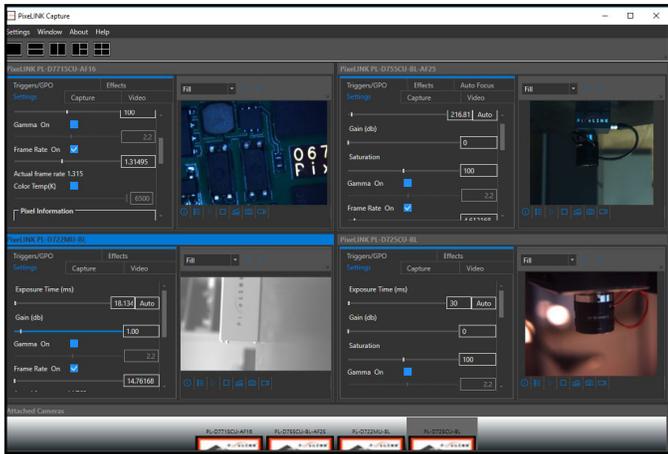
**Select Your Configuration**

Enclosed I/O or non I/O case designs offer you greater flexibility with standard case configurations. Pixelink board level cameras provide an increased degree of mounting flexibility while maintaining the same feature set and image quality of our enclosed cameras.

# Pixelink Capture Software

Pixelink Capture is a real-time, interactive, multi-camera software application compatible with all Pixelink cameras. With a built-in autofocus feature and measurement tools, 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.
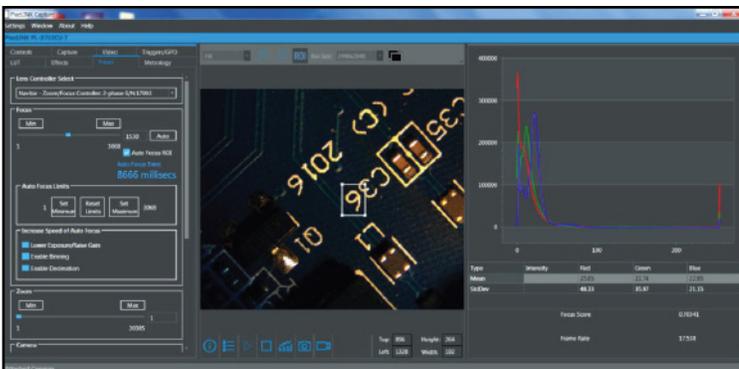

Four Camera Layout

## 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
- Report results to Excel

# Pixelink 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
- » Full U3V compliance on all USB 3.0 cameras
- » Get started with a free 30 day trial
- » Microsoft Windows and Linux supported

- » Supports C/C++, .NET, Visual Studio 2003 and above, Python
- » Robust API allowing full control of all camera features
- » Drivers: USB3 Vision, GigE, 1394/IIDC (DCAM), Direct Show, TWAIN, USB 2.0
- » 3rd Party Compatibility: LabVIEW, MATLAB, Halcon, Norpix, Matrox, USB3 Vision

# Pixelink

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