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## Pixelink PL-D7512MU-BL, 1.1" 12.3MP, Board Level USB 3.0 Monochrome Camera



Pixelink® USB 3.0 Cameras (Board Level)



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Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

PL-D7512MU-BL **Model Number:**

**Manufacturer:**

Pixelink

PL-D

Camera Series:

## Physical & Mechanical Properties

**Dimensions (mm):**  
50.8 x 35 x 13.36 (excludes lens mount)

**Weight (g):**  
35.8

**Housing:**  
Board Level

## Sensor

**Image Buffer:**  
Not Specified

**Sensor Format:**  
1.1"

**Resolution (Megapixels):**  
12.29

**Frame Rate (fps):**  
34.70

**Pixels (H x V):**  
4,096 x 3,000

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
14.13 x 10.35

**Imaging Sensor:**  
Sony IMX253

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
8/12 bit

**Exposure Time:**  
24µs - 120s

**Dynamic Range (dB):**  
70

**Machine Vision Standard:**  
USB3 Vision v1.0

## Electrical

**Power Consumption (W):**  
Not Specified

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**Connector:**  
USB 3.0, Micro-B

**Power Supply:**  
Power over USB

**GPIOs:**  
1 non-isolated trigger input, 2 non-isolated outputs,  
1 non-isolated input

**Synchronization:**  
Hardware Trigger (GPIO) or Software Trigger

**Interface Port Orientation:**  
Side Panel

**GPIO Connector Type:**  
8-pin Molex 1.25mm Pitch

**Operating System:**  
Software Driver: Windows 32 and 64 bit

## Threading & Mounting

**Mount:**  
C-Mount

## Environmental & Durability Factors

**Operating Temperature (°C):**  
0 to +50

**Storage Temperature (°C):**  
-45 to +85

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 224:**

[View](#) **Certificate of Conformance:**

## Product Details

- Resolutions Up to 20MP
- Sensor Sizes from 1/2.5" to 1.1"
- Right Angle Housing and Board Level Configurations Available

Pixelink® USB 3.0 Cameras are high resolution and high-speed solutions to applications ranging from biometrics to surveillance. Pixelink® USB 3.0 Cameras feature resolutions of up to 20MP, frame rates of up to 170fps, and USB 3.0 compatibility for power and high data throughput. The right angle housing configurations also feature a GPIO to enable triggering to ease system integration. Pixelink® USB 3.0 Cameras also compatible with sensor sizes ranging from 1/2.5" to 1.1" and are ideal for inspecting weld and PCB and flat panel displays. These cameras are available in monochrome or color.

**Note:** Mounting Adapters are only designed for enclosed camera models, and not board-level. If your camera ends in "-BL", it does not have a compatible mount.

Pixelink Capture is a free, user-friendly application included with all Pixelink cameras, offering real-time image and video capture through an intuitive graphical interface. In contrast, the Pixelink SDK is a comprehensive development toolkit for Windows and Linux that enables developers to build custom applications with full camera control via C/C++, .NET, or Python. The SDK is available as a trial download, allowing users to evaluate its capabilities before purchasing a license. Links to software downloads (SDK and Capture) are available on the product pages.