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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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Spectrum:
Monochrome

General

Type:
Monochrome Camera

Model Number:
PL-D7512MU-BL

Manufacturer:

Pixelink

Camera Series:
PL-D

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

RoHS 2015:	**Reach 224:**
Compliant	Compliant
Certificate of Conformance:	
View	

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.

Calibration Services

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