

Pixelink PL-D7512MU-T, 1.1" 12.3MP, C-Mount USB 3.0 Monochrome Camera



Pixelink® USB 3.0 Cameras (Full Housing)



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Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

PL-D7512MU-T

Model Number:

Pixelink **Manufacturer:**

PL-D **Camera Series:**

Physical & Mechanical Properties

55 x 38.5 x 27 (excludes connectors and lens mount) **Dimensions (mm):**

89 **Weight (g):**

Full **Housing:**

Sensor

Not Specified **Image Buffer:**

1.1" **Sensor Format:**

12.29 **Resolution (Megapixels):**

34.70 **Frame Rate (fps):**

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

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

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

Sony IMX253 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/12 bit **Pixel Depth:**

24µs - 120s **Exposure Time:**

70 **Dynamic Range (dB):**

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

Electrical

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

Hardware & Interface Connectivity

USB 3.0 **Interface:**

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

Power over USB **Power Supply:**

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

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

Side Panel **Interface Port Orientation:**

8-pin Hirose (HR25) **GPIO Connector Type:**

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

Threading & Mounting

C-Mount **Mount:**

1/4-20 with Tripod Mount Adapter [#89-408](#) **Mounting Threads:**

Environmental & Durability Factors

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

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

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.
