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Photometrics Moment USB 3.2 Camera, 1T-01-MOMENT-MONO



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Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

1T-01-MOMENT-MONO

Model Number:

Manufacturer:

Moment **Camera Series:**

Note:

Includes:
 USB Interface Card
 USB cable
 (2) single-line MMCX trigger cables
 USB memory device containing PVCAM library and drivers
 Quick Installation Guide

Physical & Mechanical Properties

40 x 42 x 50 **Dimensions (mm):**

96 **Weight (g):**

Full **Housing:**

Optical Properties

300 - 1100 **Wavelength Range (nm):**

Sensor

1.1" **Sensor Format:**

7.00 **Resolution (Megapixels):**

51.00 **Frame Rate (fps):**

3,200 x 2,200 **Pixels (H x V):**

14.4 x 9.9 **Sensing Area, H x V (mm):**

Sony-Based **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

12 μ s- 1s **Exposure Time:**

72 **Dynamic Range (dB):**

Hardware & Interface Connectivity

USB 3.2 Gen 2 **Connector:**

Power over USB **Power Supply:**

1 configurable input, 1 configurable outputs **GPIOs:**

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

Back Panel **Interface Port Orientation:**

BNC **GPIO Connector Type:**

Threading & Mounting

C-Mount **Mount:**

(1) M3 x 0.5 thread per side **Mounting Threads:**

Environmental & Durability Factors

0 to 30 **Operating Temperature (°C):**

-20 to 60 **Storage Temperature (°C):**

Regulatory Compliance

Exempt **RoHS 2015:**

Product Details

- Ultra-Compact CMOS
- Low Noise, High Speed Imaging
- True Global Shutter
- Scientific Cameras for High Sensitivity Microscopy Applications



Teledyne
Authorized
Distributor

Teledyne Photometrics Moment USB 3.2 Cameras measure just 50 × 40 × 42 mm and operate with a single high-speed USB 3.2 Gen 2 cable. This allows seamless integration into space-limited microscope systems and complex multi-device workflows. These cameras feature a low-read-noise CMOS sensor coupled with a true global shutter, achieving high-speed imaging at up to 50 fps with 12-bit depth. Teledyne Photometrics Moment USB 3.2 cameras are ideal for demanding applications such as live-cell imaging, light-sheet microscopy, and super-resolution microscopy. These cameras include Teledyne's proprietary-designed software platforms, Beacon and PVCAM, for optimizing camera performance and ease of system integration.

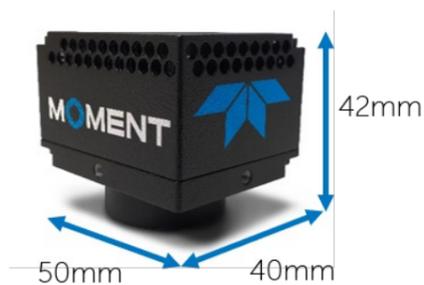
Scientific Image Quality

The Moment delivers quantitative measurements and optimizes image quality by suppressing hot pixels and patterns common to industrial devices.

Combined with low dark noise and optimized linearity the Moment gives high quality images in low light situations.

Global Shutter Snapshot

Global shutter minimizes the complexity of illumination control, simplifying your imaging setup. Collect all the light that comes your way without the dead time, artefacts and synchronization issues of a rolling shutter device.



Ultra-compact Form Factor

Measuring just 50 mm x 40 mm x 42 mm, the Moment is truly compact. Over 3 times smaller than other CMOS devices on the market, the Moment can fit easily into existing instruments, or minimize the footprint of your new device.

Speed and Simplicity

The Moment utilizes the simple, versatile and high-speed USB 3.2 Gen 2 – 10 GBit/s interface to deliver 50 fps full frame. What's more, both data and power are provided by the same cable, simplifying integration.



Design and Integrate

Interfacing and integration is simple with the Moment. With its compact design and single cable interface, hardware integration is straightforward. And with onboard triggering, combined with Windows and Linux support, communicating with a camera has never been easier.