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Photometrics Moment USB 3.2 Camera, 01-MOMENT-MONO



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Monochrome

Spectrum:

General

Monochrome Camera

Type:

01-MOMENT-MONO

Model Number:

Teledyne Photometrics

Manufacturer:

Camera Series:
Moment

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

Dimensions (mm):
40 x 42 x 50

Weight (g):
96

Housing:
Full

Optical Properties

Wavelength Range (nm):
300 - 1100

Sensor

Sensor Format:
1.1"

Resolution (Megapixels):
7.00

Frame Rate (fps):
51.00

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

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

Imaging Sensor:
Sony-Based

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
12µs- 1s

Dynamic Range (dB):
72

Hardware & Interface Connectivity

Connector:
USB 3.2 Gen 2

Power Supply:
Power over USB

GPIOs:
1 configurable input, 1 configurable outputs

Synchronization:
Hardware Trigger (GPIO) or Software Trigger

Interface Port Orientation:
Back Panel

GPIO Connector Type:
BNC

Threading & Mounting

Mount:
C-Mount

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

Environmental & Durability Factors

Operating Temperature (°C):
0 to 30

Storage Temperature (°C):
-20 to 60

Regulatory Compliance

RoHS 2015:
Exempt

Certificate of Conformance:

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.

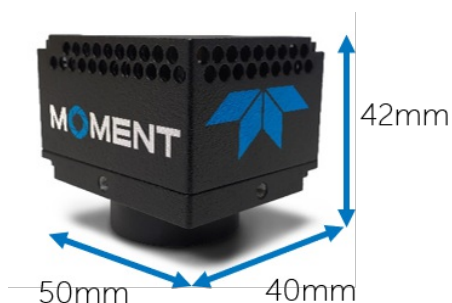
Scientific Image Quality

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.