

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:

Teledyne Photometrics	
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):
Housing:	
Full	
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:
12µs- 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:

View	Certificate of Conformance:
Contains SVHC(s)	Reach 247:

Product Details

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



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.