

Photometrics Retiga E7 USB 3.2 Camera 1T-01-RET-E7-M-C



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1

+

€8.750⁰⁰

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SPECIFICATIONS

Spectrum:
Monochrome

General

Type:
Monochrome Camera

1T-01-RET-E7-M-C	Model Number:
Teledyne Photometrics	Manufacturer:
Retiga E	Camera Series:
Note: Includes: USB 3.2 Gen 2 Cables USB 3.2 Gen 2 Interface Card 12V/ 5A power supply with international power cord set (2) Single-line MMCX trigger cables USB memory device containing PVMCAM library and drivers Quick Installation Guide	
Physical & Mechanical Properties	
86 x 86 x 89	Dimensions (mm):
800	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, 16 bit	Pixel Depth:
Up to an hour	Exposure Time:
83	Dynamic Range (dB):
Hardware & Interface Connectivity	
USB 3.2	Connector:
GPIO with #90-399	Power Supply:
1 configurable input, 3 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) ¼–20 thread per side	Mounting Threads:
Environmental & Durability Factors	
0 to 30	Operating Temperature (°C):
–20 to 60	Storage Temperature (°C):

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Certificate of Conformance:

PRODUCT DETAILS

- Long Exposure CMOS (Over 60 Minutes)
- Feature Extended Dynamic Range (EDR)
- Dual Imaging Modes for Flexibility
- Scientific Cameras for High Sensitivity Microscopy Applications

Teledyne Photometrics Retiga E USB Cameras feature ultra-low dark current (<0.001 electrons/pixel/second), enabling exposure times of over an hour for low-light and long-duration imaging. The cameras feature EDR mode, which combines a large full-well capacity with low read noise to capture both intense and weak signals in the same image. The Retiga E series offers dual imaging modes; a long exposure mode enables ultra-sensitive, low-light imaging, and a fast capture mode for high-speed acquisition. The dual modes provide flexible performance for both static and dynamic scientific applications. Teledyne Photometrics Retiga E USB Cameras are ideal for time-lapse imaging in cell colony growth, fluorescence microscopy, and bioluminescence/chemiluminescence imaging. These cameras include Teledyne's proprietary-designed software platforms, Beacon and PVCAM, for optimizing camera performance and ease of system integration.