

# Photometrics Prime BSI Express, USB 3.2 Camera, 1T-01-PRIME-BSI-EXP



Stock #90-390 **NEW** 1 In Stock

− 1 + \$21,000.00

**ADD TO CART**

Volume Pricing	
Qty 1+	\$21,000.00 each
Need More?	<a href="#">Request Quote</a>

**Product Downloads**

**Spectrum:**  
Monochrome

**General**

**Type:**  
Monochrome Camera

**Model Number:**  
1T-01-PRIME-BSI-EXP

**Manufacturer:**  
Teledyne Photometrics

Prime BSI Express **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 PVCAM library and drivers  
Quick Installation Guide

## Physical & Mechanical Properties

78 x 78 x 88 **Dimensions (mm):**

760 **Weight (g):**

Full **Housing:**

## Optical Properties

200 - 1100 **Wavelength Range (nm):**

## Sensor

1.2" **Sensor Format:**

4.20 **Resolution (Megapixels):**

95.00 **Frame Rate (fps):**

2,048 x 2,048 **Pixels (H x V):**

13.31 x 13.31 **Sensing Area, H x V (mm):**

GPixel Gsense 2020BSI **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

11, 12, 16 bit **Pixel Depth:**

6µs- 10s **Exposure Time:**

89 **Dynamic Range (dB):**

## Hardware & Interface Connectivity

USB 3.2 Gen 2 **Connector:**

Power over 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):**

## Regulatory Compliance

Exempt **RoHS 2015:**

[View](#)

Reach 247:

[Contains SVHC\(s\)](#)

## Product Details

- Highly Sensitive Back-Illuminated sCMOS for Scientific Applications
- 95% QE and Ultra-Low 1.0 e<sup>-</sup> Read Noise
- 95 fps Over USB 3.2
- Scientific Cameras for High Sensitivity Microscopy Applications



Teledyne  
Authorized  
Distributor

Teledyne Photometrics Prime BSI Express USB 3.2 Cameras feature a highly sensitive back-illuminated sCMOS sensor. This sensor provides a 95% peak quantum efficiency and ultra-low 1.0 e<sup>-</sup> median read noise, delivering a high signal-to-noise ratio and outstanding performance in low-light imaging conditions. These cameras are designed to achieve up to 95 frames per second using a USB 3.2 interface, enabling high-speed imaging and fast data transfer. Teledyne Photometrics Prime BSI Express USB 3.2 Cameras are ideal for fluorescence, calcium imaging, and live-cell microscopy. These cameras include Teledyne's proprietary-designed software platforms, Beacon and PVCAM, for optimizing camera performance and ease of system integration.