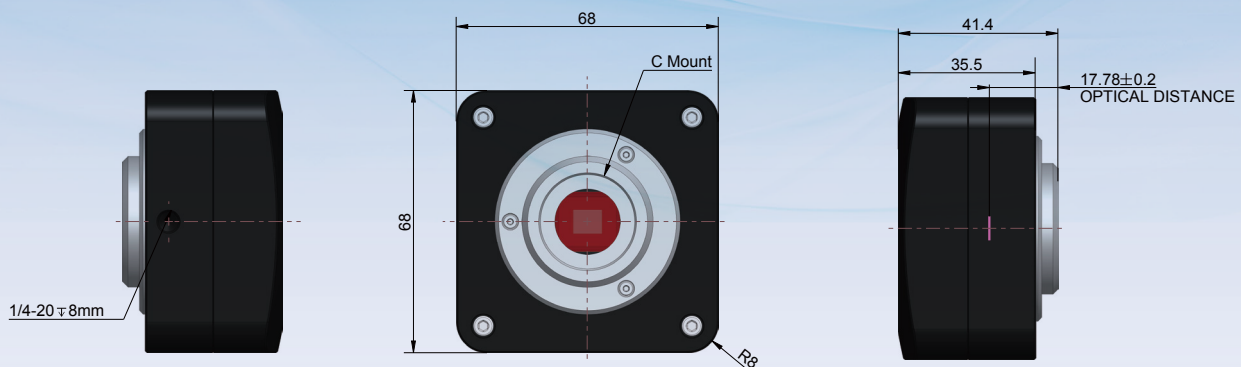


E10ISPM Series Camera

Fast Transfer, Advanced Imaging

10Gbps

USB3.2 Gen2



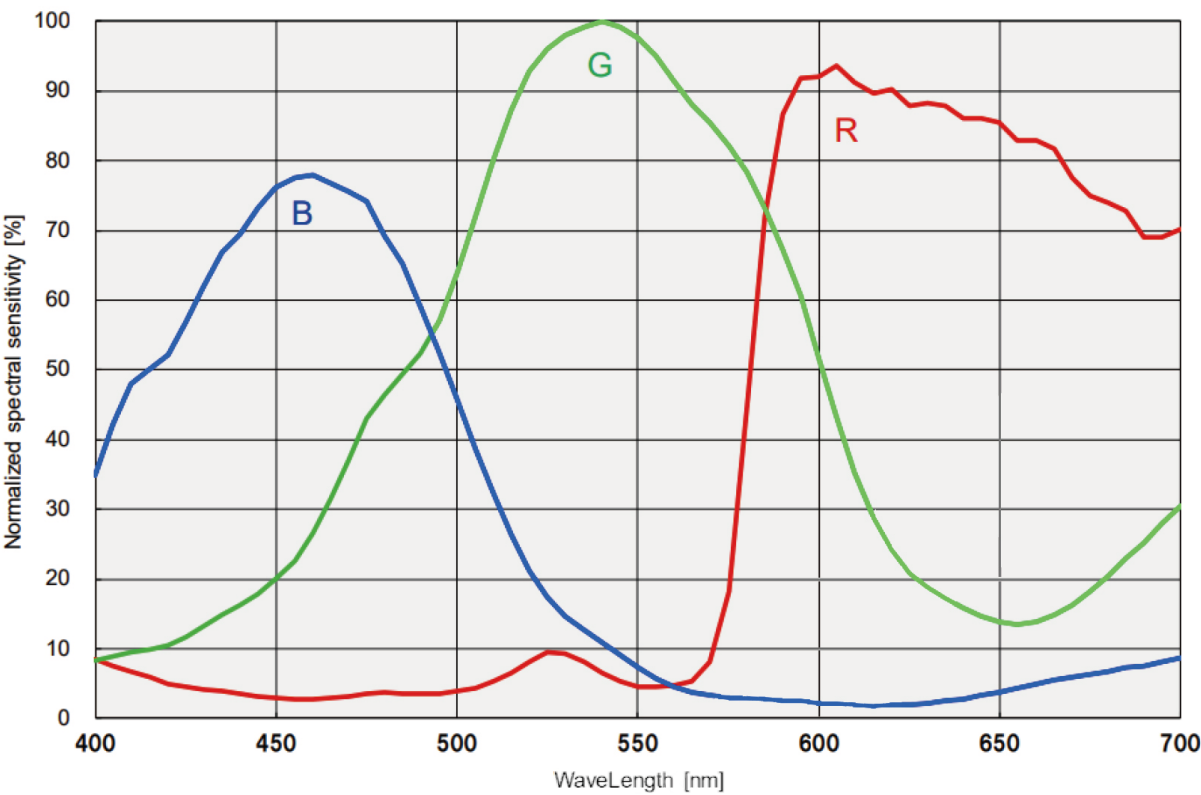
The new E10ISPM series cameras from ToupTek Photonics are equipped with advanced USB3.2 Gen2 technology. They deliver a 10 Gbps high-bandwidth interface that breaks through traditional transmission bottlenecks. The data transfer speed is 2–3 times faster than conventional USB3.0 cameras. They are designed for microscopy, industrial inspection, and scientific research applications. The series adopts a USB Type-C connector with reversible plug orientation. It ensures both convenience and stability while supporting diverse device connectivity requirements.

Technical Specifications

Model	E10ISPM21000KPA	
Sensor Model	21MP IMX472(C, RS) 4/3"(17.42mm×13.05mm)	
Pixel Size (μm)	3.3 x 3.3	
ADC	12bit	
Frame Rate & Resolution	8bit: 49fps @5280 x 3956 12bit: 25fps @5280 x 3956 8bit: 115fps@2640 x 1978 12bit: 55fps @2640 x 1978 8bit: 240fps@1760 x 1318 12bit: 117fps@1760 x 1318	
Conversion Gain	6.017e-/ADU	
Readout Noise	4.58e-	
Full Well	24.600ke-	
Dynamic Range	72dB	
SNR	43.9dB	

*C: Color; RS: Rolling Shutter.

Spectral Response Curve

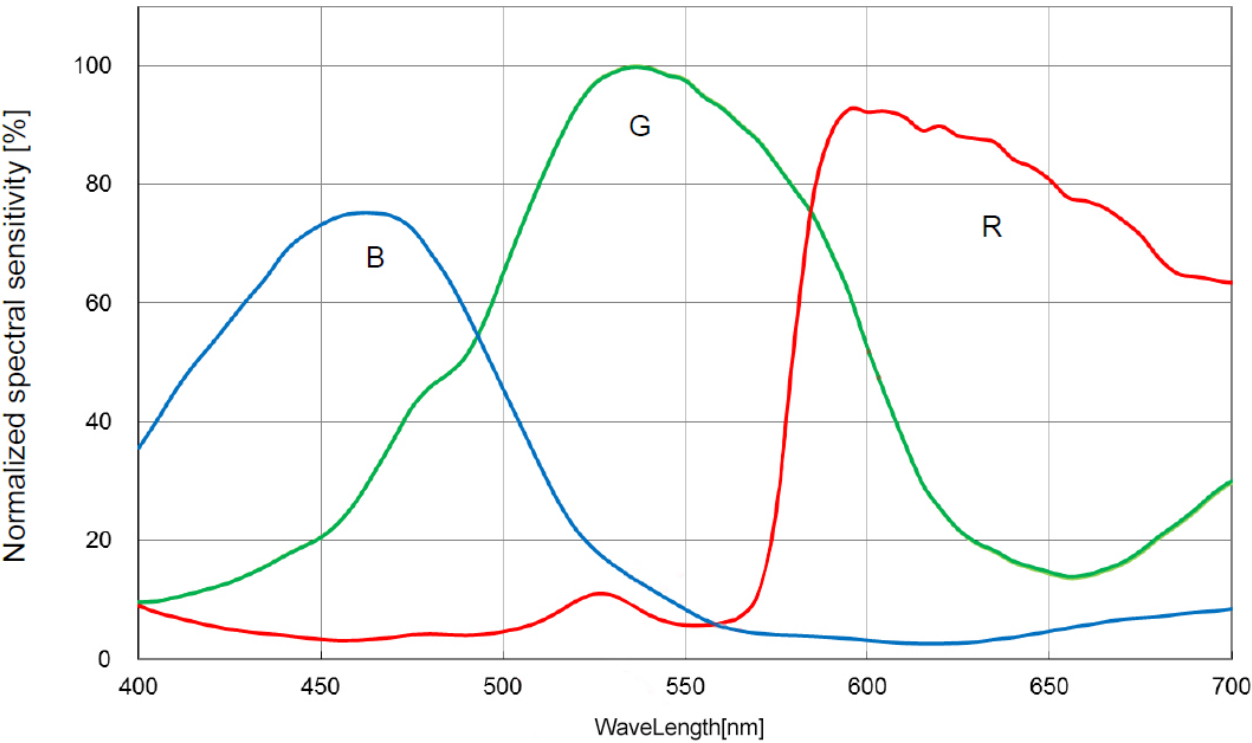


Technical Specifications

Model	E10ISPM20000KPA
Sensor Model	20MP IMX383(C, RS) 1/1.1"(13.13mm×8.75mm)
Pixel Size (μm)	3.3 x 3.3
ADC	12bit
Frame Rate & Resolution	8bit : 49fps @5472x3648 12bit: 24fps @5472x3648 8bit : 49fps @2736x1824 12bit: 24fps @2736x1824 8bit : 120fps@1824x1216 12bit: 120fps@1824x1216
Conversion Gain	4.410e-/ADU
Readout Noise	3.48e-
Full Well	18.042ke-
Dynamic Range	72dB
SNR	42.6dB

*C: Color; RS: Rolling Shutter.

Spectral Response Curve



Technical Specifications

Model	E10ISPM08300KPA	
Sensor Model	8.3MP IMX585(C, RS) 1/1.2"(11.13mm×6.26mm)	
Pixel Size (μm)	2.9 x 2.9	
ADC	10bit / 12bit	
Frame Rate & Resolution	8bit: 88fps@3840 x 2160 12bit: 60fps@3840 x 2160 8bit: 60fps@1920 x 1080 12bit: 60fps@1920 x 1080	
Conversion Gain	0.994e-/ADU(HCG) ; 9.582e-/ADU(LCG)	
Readout Noise	1.07e-(HCG); 6.69e-(LCG)	
Full Well	4.061ke-(HCG); 39.162ke-(LCG)	
Dynamic Range	71.6dB(HCG); 72.0dB(LCG)	
SNR	36.1dB(HCG); 45.9dB(LCG)	

*C: Color; RS: Rolling Shutter.

Spectral Response Curve

