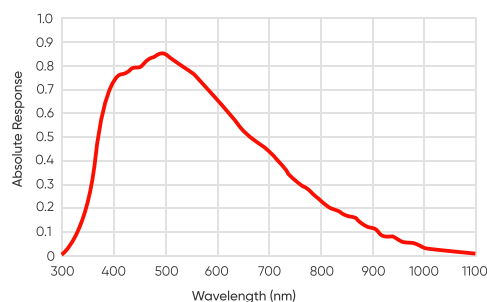


FL 20 / 20BW

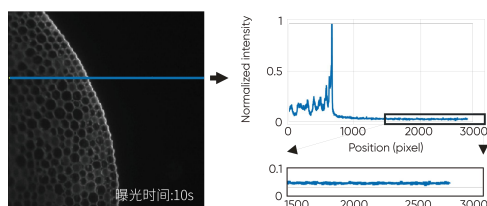
The FL 20 series are cooled CMOS cameras designed for low-magnification fluorescence microscopy. Advanced cooling and noise-reduction technology significantly minimize thermal noise, capturing cleaner fluorescence background images, ideal for high-quality documentation and publication.



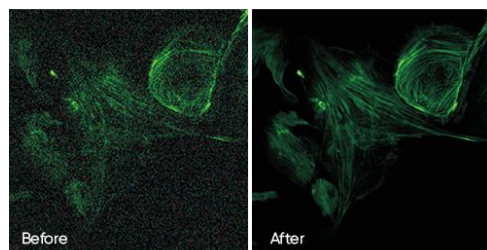
Quantum Efficiency



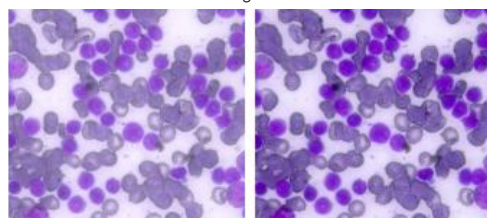
Application Cases



Dark current as low as 0.001 e⁻/pixel/s



Real-time 3D noise reduction for a cleaner fluorescence background



Before Sharpening After Sharpening
Real-time sharpening for higher-quality color images

Specification

Model	FL 20BW	FL 20
Sensor Type	SONY BSI CMOS (IMX183C)	
Chrome	Mono	Color
Array Diagonal	15.86 mm (1")	
Effective area	13.1 mm x 8.8 mm	
Pixel Size	2.4 μm x 2.4 μm	
Peak QE	84%	
Shutter Mode	Rolling	
Resolution	5472 (H) x 3648 (V), 20 MP	
Frame Rate	16 fps	14 fps
Readout Noise	0.6 e ⁻	< 1 e ⁻
Dark Current	0.001 e ⁻ /p/s	
Full well capacity	16 ke ⁻	
Bit Depth	8 bit, 16 bit	
Exposure Time	3 μs~3600 s	
Binning	Support	
Software	Mosaic	
Image Format	TIFF, JPG, PNG, DICOM	
Multi-Camera	Supports 4 Cameras Simultaneously in SDK	
SDK	C, C++, C#, Directshow, Twain	
Data Interface	USB 3.0	
Optical Interface	C-mount	
Power Supply	12 V	
Dimensions	85 mm x 85 mm x 112 mm	
Weight	980 g	
Operating System	Windows, Linux	
Operating Environment	Working: Temp. 0°C~40°C, HUM 10%~85%	

