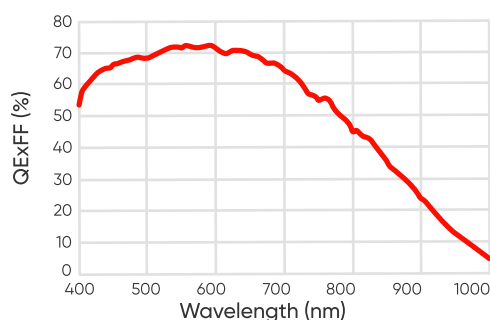


Dhyana 400D

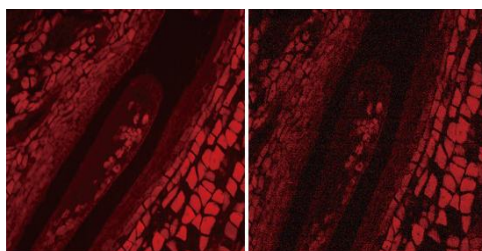
The Dhyana 400D features a front-illuminated sCMOS sensor with a peak quantum efficiency of 72% and a readout noise of only 2.0 e⁻. Combined with advanced cooling and noise reduction technology, it is suitable for most fluorescence imaging applications.



Quantum Efficiency



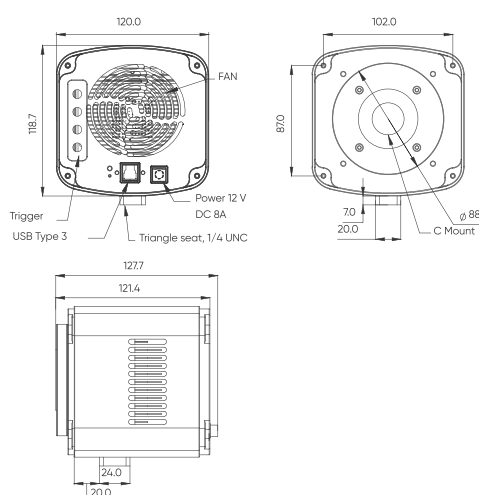
Application Cases



Dhyana 400D, 40 ms

CCD, 40 ms

Dimensions (Unit: mm)



Specification

Model	Dhyana 400D
Sensor Type	FSI sCMOS
Sensor Model	Gpixel GSENSE2020
Peak QE	72%@595 nm
Chrome	Mono
Array Diagonal	18.8 mm
Effective Area	13.3 mm x 13.3 mm
Resolution	2048 (H) x 2048 (V)
Pixel Size	6.5 μm x 6.5 μm
Full Well Capacity	Typical: 45 Ke ⁻
Dynamic Range	Typical: 86.6 dB
Frame Rate	35 fps@16 bit
Readout Noise	Typical: 2 e ⁻
Shutter Mode	Rolling
Exposure Time	13 μs~10 s
Cooling Method	Air Cooling
Cooling Temp.	35°C below ambient
Dark Current	0.12 e ⁻ /pixel/s@-10°C
Binning	2 x 2
ROI	Support
Trigger Mode	Hardware, Software
Trigger Output	Exposure Start, Global Exposure, Readout End
Trigger Interface	SMA
Data Interface	USB 3.0
Bit Depth	12 bit, 16 bit
Optical Interface	C-mount
Power Supply	12 V / 8 A
Power Cons.	60 W
Dimensions	120 mm (H) x 119 mm (W) x 121 mm (L)
Weight	1853 g
Software	Mosaic 3.0, LabVIEW, MATLAB, Micro-Manager 2.0
SDK	C / C++ / C# / Python
Operating System	Windows, Linux
Environment	Working: Temp. 0°C~40°C, HUM 10%~85%

