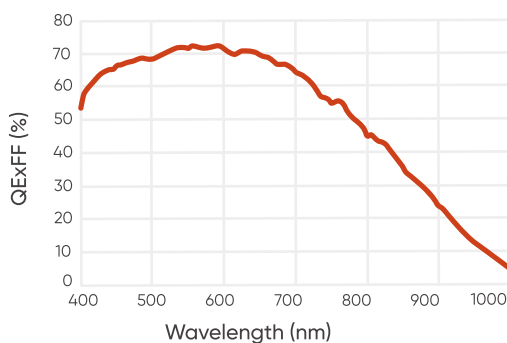


Dhyana 400D

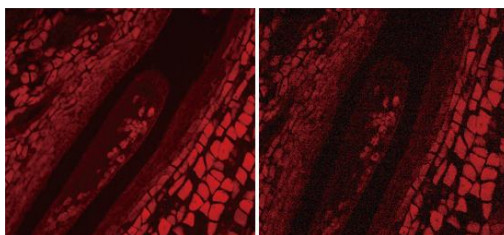
The Dhyana 400D drives maximum performance from a front-illuminated sCMOS sensor. It achieves nearly 72% QE with only 2 e⁻ of read noise along excellent dark current performance reduced by cooling. It is the perfect choice for low signal applications pushing exposures into seconds and even minutes.



Quantum Efficiency



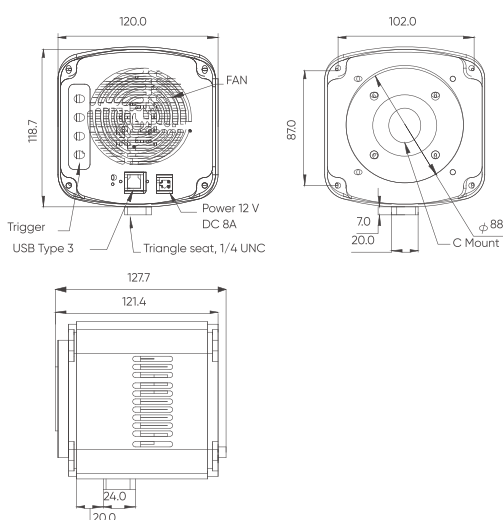
Application Cases



Dhyana 400D, 40 ms

CCD Camera, 40 ms

Dimensions (Unit: mm)



Specifications

Model	Dhyana 400D
Sensor Type	FSI sCMOS
Sensor Model	Gpixel GSENSE2020
Peak QE	72 % @ 595 nm
Color / Mono	Mono
Array Diagonal	18.8 mm
Effective Area	13.3 mm x 13.3 mm
Resolution	2048 (H) x 2040 (V)
Pixel Size	6.5 μm x 6.5 μm
Full-Well Capacity	Typ. : 45 ke ⁻
Dynamic Range	Typ. : 86.6 dB
Frame Rate	35 fps @ 16 bit
Readout Noise	Typ. : 2 e ⁻
Shutter Type	Rolling
Exposure Time	13 μs ~ 10 s
Cooling Method	Air
Max. Cooling	35 °C Below Ambient
Dark Current	0.12 e ⁻ /pixel/s @ -10 °C
Binning	2 x 2
ROI	Support
Trigger Mode	Hardware, Software
Output Trigger Signals	Exposure Start, Global, Readout End
Trigger Interface	SMA
Data Interface	USB 3.0
Data Bit Depth	12 bit, 16 bit
Optical Interface	C-mount
Power Supply	12 V / 8 A
Power Consumption	60 W
Dimensions	120 mm x 119 mm x 121 mm
Weight	1853 g
Software	Mosaic, LabVIEW, MATLAB Micro-Manager 2.0
SDK	C, C++, C#, Python
Operating System	Windows, Linux
Operating Environment	Working: Temp. 0~40 °C , HUM 10~85%