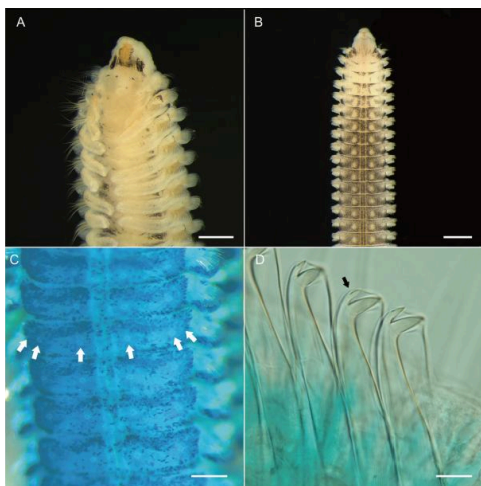


Dhyana 400DC

The Dhyana 400DC is a front-illuminated color sCMOS camera, combining scientific-grade sensitivity with accurate color reproduction. It offers a wide field of view and excellent dynamic range, enabling high-quality color imaging even under low-light conditions.

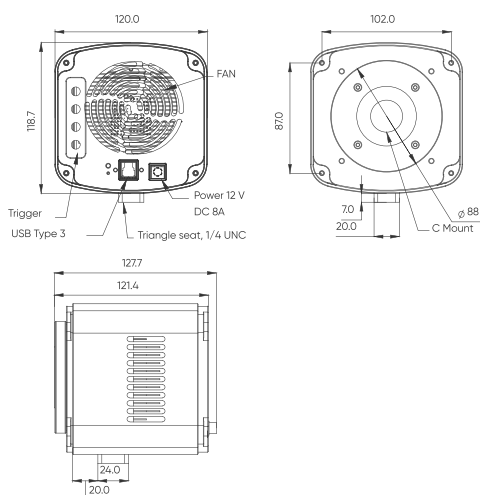


Application Cases



Images (A-D) acquired with the Dhyana 400DC, showing a newly identified algal species under different dark-field/bright-field illumination conditions.

Dimensions (Unit: mm)



Specification

Model	Dhyana 400DC
Sensor Type	FSI sCMOS
Sensor Model	Gpixel GSENSE2020s
Chrome	Color
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	22 fps@8 bit, 16 fps@16 bit
Readout Noise	1.7 e ⁻
Shutter Mode	Rolling
Exposure Time	21 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	16 bit
Optical Interface	C-mount
Power Supply	12 V / 8 A
Power Cons.	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°C~40°C, HUM 10%~85%

