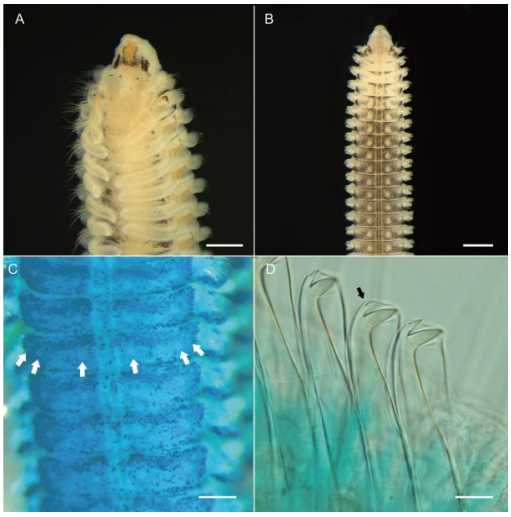
# Dhyana 400DC

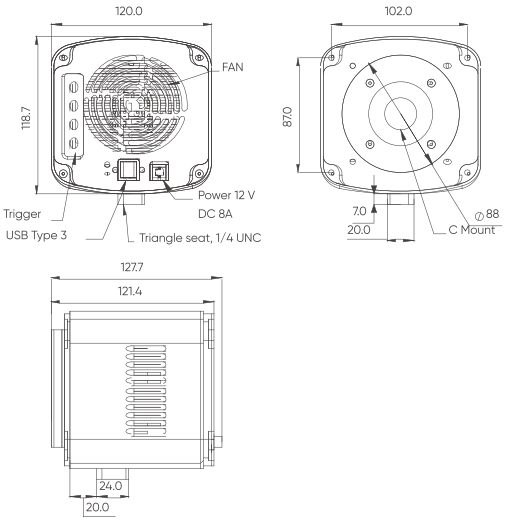
The Dhyana 400DC offers sCMOS capabilities to those who need color imaging for general documentation or those looking to image multichannel fluorescence without the need for automating their illumination paths.

## Application Cases




Camera: Dhyana 400DC
Sample: New species of the genus Spio
Author: Lee GH, Meißner K, Yoon SM, Min GS.

## Dimensions (Unit: mm)




## Specifications

| | |
|---|---|
| Model | Dhyana 400DC |
| Sensor Type | FSI sCMOS |
| Sensor Model | Gpixel GSENSE2020s |
| Color/Mono | 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 | Typ.： 43 ke- |
| Dynamic Range | 86.6 dB |
| Frame Rate | 22 fps @ 8 bit，16 fps @ 16 bit |
| Readout Noise | High Gain: 1.7 e- |
| Shutter Type | Rolling |
| Exposure Time | 21 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 | 16 bit |
| Optical Interface | C-mount |
| Power Supply | 12 V / 8 A |
| Power Consumption | 50 W |
| Dimensions | 120 mm x 119 mm x 121 mm |
| Weight | 1853 g |
| Software | Mosaic, LabVIEW, MATLAB, Micro-Manager |
| SDK | C，C++，C# |
| Operating System | Windows，Linux |
| Operating Environment | Working: Temp. 0~40 °C , HUM 0~85%<br>Storage: Temp. 0~60 °C, HUM 0~90% |