

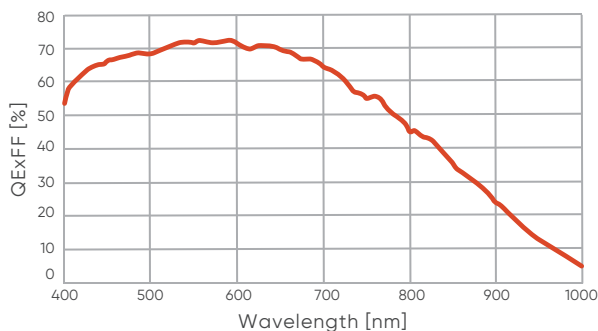
Cooled FSI sCMOS Camera

Dhyana 400D

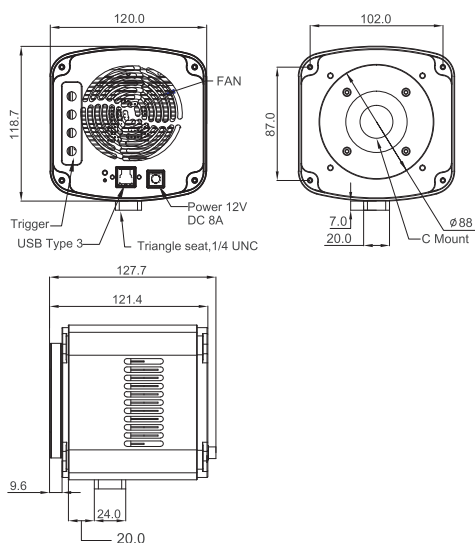


Key Features

- 1.2" area
- 6.5 μ m x 6.5 μ m pixel size
- 72% peak QE
- 45ke- full well capacity
- 35fps@16bit
- USB3.0 interface



Product structure (unit: mm)



Specifications

| | |
|------------------------|--|
| Model | Dhyana 400D |
| Sensor Type | FSI sCMOS |
| Sensor Model | Gpixel GSENSE2020 |
| Peak QE | 72%@595nm |
| Color/Mono | Mono |
| Array Diagonal | 18.8mm |
| Effective Area | 13.3mm x 13.3mm |
| Resolution | 2048(H) x 2040(V) |
| Pixel Size | 6.5 μ m x 6.5 μ m |
| Full-Well Capacity | Typical: 45ke- |
| Dynamic Range | 86.6dB |
| Frame Rate | 35fps@16bit |
| Readout Noise | HighGain: 2e- |
| Shutter Type | Rolling |
| Exposure Time | 13 μ s-10s |
| Cooling Method | Forced air |
| Cooling Temperature | Forced air (Ambient at +25°C): -10°C |
| Dark Current | 0.12e- / pixel / s @ -10°C |
| Binning | 2x2 |
| ROI | Support |
| Trigger Mode | Hardware & Software |
| Output Trigger Signals | Exposure start, Global, Readout end |
| Trigger Interface | SMA |
| Data Interface | USB3.0 |
| Data Bit Depth | 16bit |
| Optical Interface | C-mount |
| Power Supply | 12V/8A |
| Power Consumption | 60W |
| Dimensions | 120mm x 119mm x 121mm |
| Weight | 1853g |
| Software | Mosaic / LabVIEW / Matlab / Micromanager |
| SDK | Support |
| Operating System | Windows / Linux |
| Operating Environment | Temperature 0~40°C / Humidity 10~85% |

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