

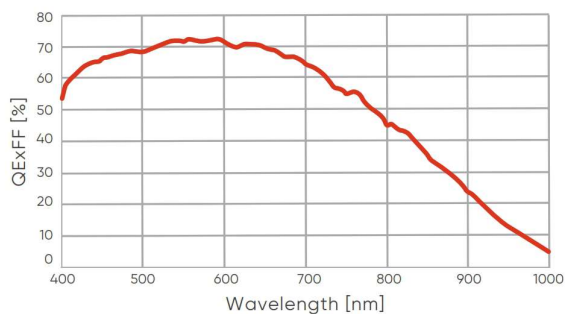
# Cooled FSI sCMOS Camera

## Dhyana 400D

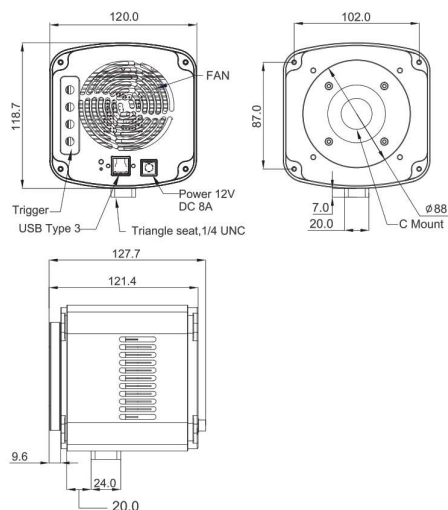


### Key Features

- 1.2" area
- 6.5 $\mu$ m x 6.5 $\mu$ 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 $\mu$ m x 6.5 $\mu$ m
Full-Well Capacity	Typical: 45ke-
Dynamic Range	86.6dB
Frame Rate	35fps@16bit
Readout Noise	HighGain: 2e-
Shutter Type	Rolling
Exposure Time	13 $\mu$ 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%