



Dhyana 400BSI V3

995g Camera Weight **45w** Power Consumption

Better for sytemm optimization

100fps@4MP

For high speed lowlight imaging

Rolling Shutter Control Mode

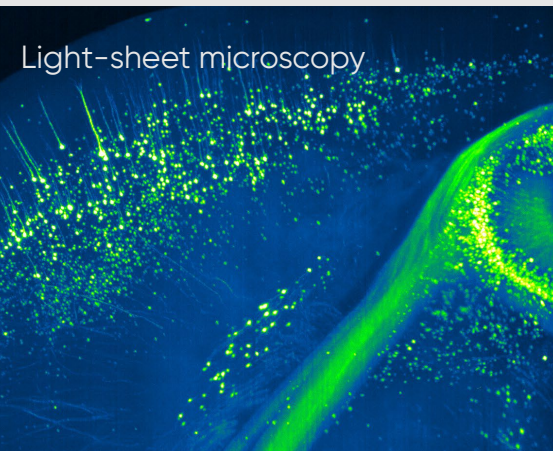
For synchronize scanning



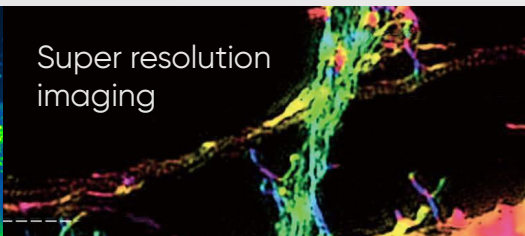
Typical Applications

- Low light imaging: STORM, PALM, SIM , etc.
- High speed imaging: Calcium, FRET, TIRF, high content, etc.
- Synchronize scanning : Light-sheet, spinning-disk confocal, spectroscopy, etc.

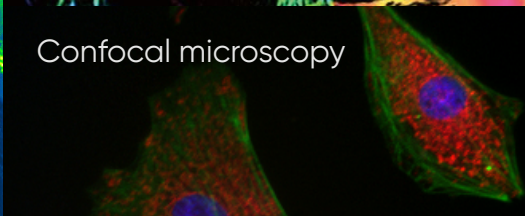
Light-sheet microscopy



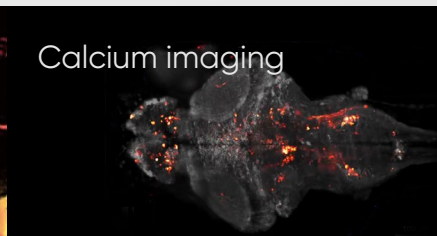
Super resolution imaging



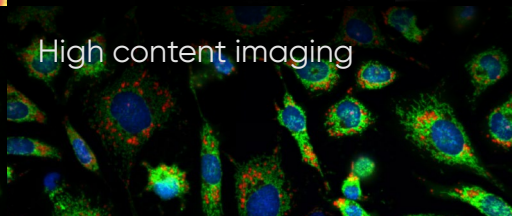
Confocal microscopy



Calcium imaging



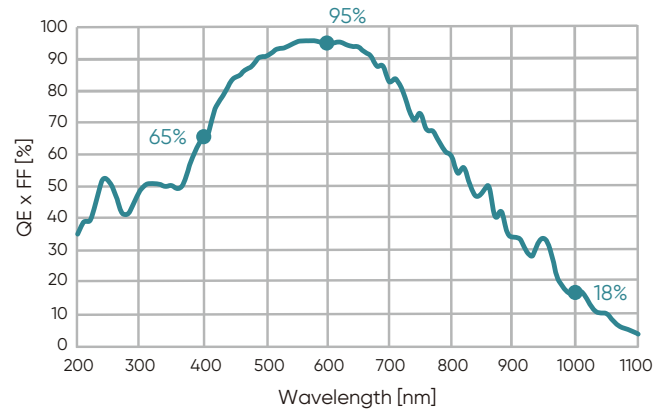
High content imaging



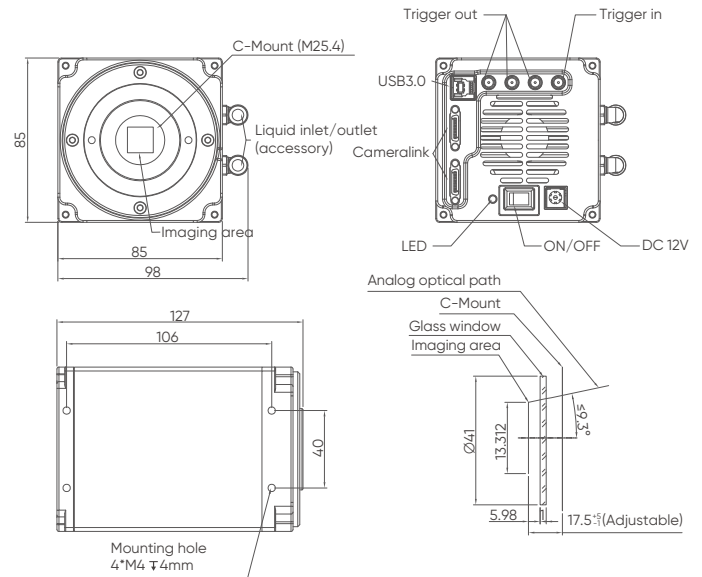
Technical Specification

Model	Dhyana 400BSI V3
Sensor Type	BSI sCMOS
Sensor Model	GSENSE2020BSI
Peak QE	95%@600nm
Color/Mono	Mono
Array Diagonal	18.8mm
Effective Area	13.3mm x 13.3mm
Resolution	2048(H) x 2048(V)
Pixel Size	6.5μm x 6.5μm
Full-Well Capacity	Typical: 45ke-
Dynamic Range	90dB
Frame Rate	HDR mode: 74fps@CameraLink; 40fps@USB3.0 HighSpeed mode: 100fps@CameraLink
Readout Noise	CMS: 1.1e-(Median)/1.2e-(RMS)
Shutter Type	Rolling/Global reset
Exposure Time	6.6μs-10s
DSNU	0.2e-
PRNU	0.3%
Cooling Method	Air & Liquid
Max. Cooling Temperature	45°C below ambient
Dark Current	Air: 0.5 e-/p/s @ -15°C Liquid: 0.2 e-/p/s @ -25°C
Binning	2x2, 4x4
ROI	Support
Trigger Mode	Hardware & Software
Output Trigger Signals	Exposure start, Global, Readout end, High level, Low level
Trigger Interface	SMA
Data Interface	USB3.0 & CameraLink
Bit Depth	16bit
Optical Interface	C-mount
Power Supply	12V/8A
Power Consumption	45W
Dimensions	85mm x 85mm x 127mm
Weight	995g
Software	Mosaic/LabVIEW/Matlab/Micromanager/ MetaMorph
SDK	C/C++/C#
Operating System	Windows/Linux
Operating Environment	Temperature 0~40°C/Humidity 10~85%

Quantum Efficiency



Dimensions (Unit: mm)



Contact Us

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ISO9001 CE RoHS