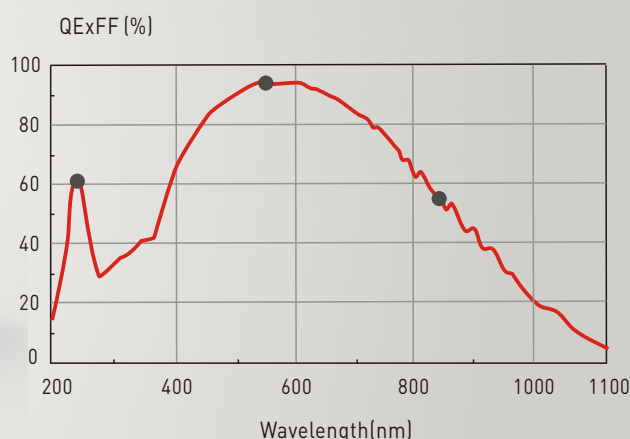




Dhyana 400BSI **V2.0**

BSI Scientific CMOS Cooled Camera



74 fps
CameraLink

40 fps
USB3.0

Faster Capture

6.5 μm
Pixel Size

4.2 MP
Resolution

High Resolution

0.2 e^-
DSNU

0.3 %
PRNU

1.2 e^-
Read Noise

More Accurate

60 % QE UV light
@ 254 nm

95 % QE Visible light
@ 550 nm

53 % QE Near-infrared
@ 850 nm

High Sensitivity

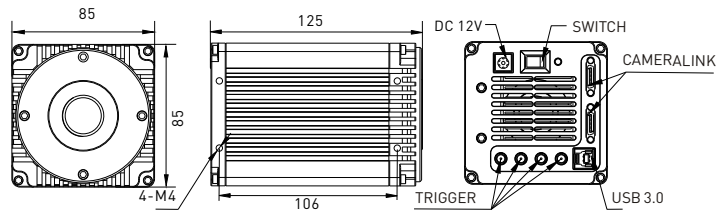
Technical Features

Model	Dhyana 400BSI (V2.0)
Sensor size	1.2"
Sensor model	G2020 BSI (Backside-illuminated sCMOS)
Color/mono	Monochrome
Quantum efficiency	60%@254nm, 95%@550nm, 53%@850nm
Effective no.of pixels	2048(H) x 2040(V)
Pixel size	6.5µm x 6.5µm
Effective area	13.3mm x 13.3mm
Full well capacity	30,000e ⁻
Frame rate	74fps @4.2MP @CameraLink 40fps @4.2MP @USB3.0
Read noise	1.2e ⁻ (Median); 1.8e ⁻ (RMS)
Shutter type	Rolling Shutter
Exposure	Manual / Auto, Time: 6.6µs-10s
DSNU	0.2e ⁻
PRNU	0.3%
Cooling	Forced air (Ambient at +20°C): -15°C
Dark current	0.15 electrons/pixel/s (-15 °C)
Dynamic range	88dB
Binning	1x1 / 2x2
Sub-array	Available
External trigger mode	Standard / Synchronous / Global trigger
Trigger delay function	0-10s(1µs steps)
External trigger routing	SMA
Trigger output	3 programmable timing output (Exposure / Global / readout signal)
Digital interface	USB3.0 / CameraLink
SDK	Support
Bit depth	16bit
Lens mount	C-mount
Power supply	12V / 8A
Power consumption	55W
Camera size	85mm x 85mm x 125mm
Parameter settings	White balance, Exposure, Contrast, Gamma, DPC, Saturation, Flat Fielding
PC software	Mosaic / LabVIEW / Matlab / Micromanager
Compatible system	Windows / Linux / Mac
Operating environment	Temperature: 0-60°C Humidity: 10%-85%

Applications

Single molecule detection	TIRF
Super-resolution microscopy	FRET
Real-time confocal microscopy	
Astronomical observation	
Live-cell imaging	
Gene sequencing	

Dimensions Unit: mm



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