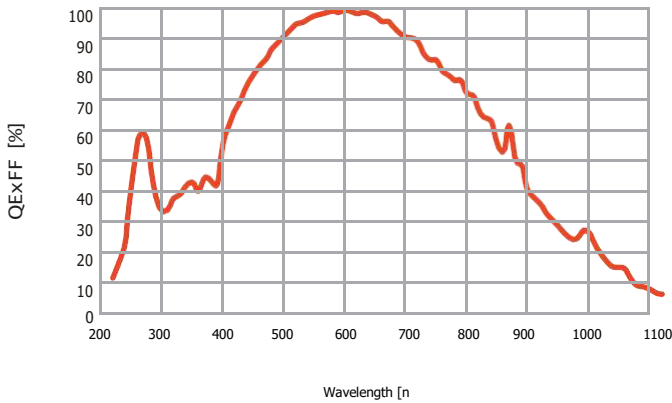


Ultra-large sCMOS Camera Dhyana 6060BSI

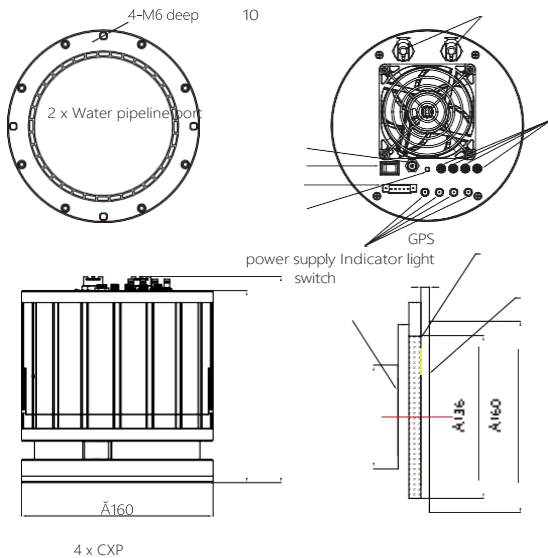


Key Features

- 5.4" large area
- 10 μ m x 10 μ m pixel size
- 95%QE@580nm
- 102ke- full well capacity
- 26fps @ full resolution
- CXP high-speed interface



Product structure (unit: mm)



Specifications

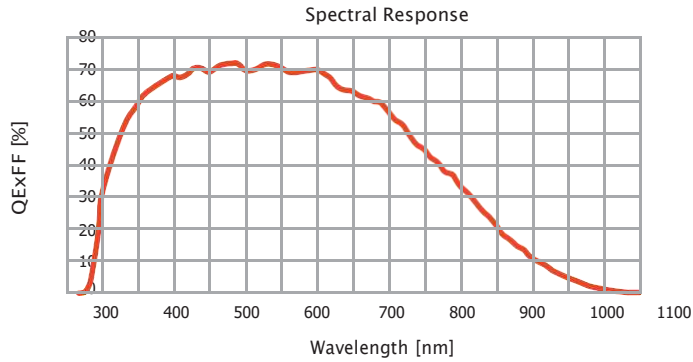
Model	Dhyana 6060BSI
Sensor model	BSI sCMOS
Shutter type	Rolling
Color/Mono	Mono
Effective area	61.4mm x 61.4mm
Resolution	6144(H) x 6144(V)
Pixel size	10 μ m x 10 μ m
QE	95%@580nm
Full-Well capacity	102ke-
Dynamic Range	90dB
Frame rate	26fps @ 12-bit STD; 11fps @ 12-bit HDR; 8fps @ 14-bit STD
Readout noise	3e- (Median)
Exposure time	12 μ s-300s
DSNU	4e-
PRNU	0.2%
Cooling Method	Air & Liquid
Cooling temperature	40°C below ambient
Dark current	0.2e-/pixel/s@-20°C
Binning	2x2, 4x4
ROI	Support
TimeStamp	1 μ s accuracy
GPS	Support
Trigger Mode	Hardware & Software
Output Trigger Signals	Exposure, Global, Readout, High level, Low level
Trigger Interface	SMA
Data Interface	CXP12 x 4
Data Bit Depth	12bit, 14bit, 16bit
Optiona Interface	User-customization
Power Supply	12V/10A
Power Consumption	< 100W
Dimensions	ϕ 160 (Diameter) x 164 mm (length)
Weight	< 4kg
Software	Samplepro / MAXIMDL / Labview / Matlab / EPICS 4 x trigger port
SDK	C/C++/C#
Operating System	Windows/Linux
Operating Environment	Working: Temperature -35~45°C/Humidity 0~95%; Storage: Temperature -35~60°C/Humidity 0~95%

Ultra-large sCMOS Camera Dhyana 6060

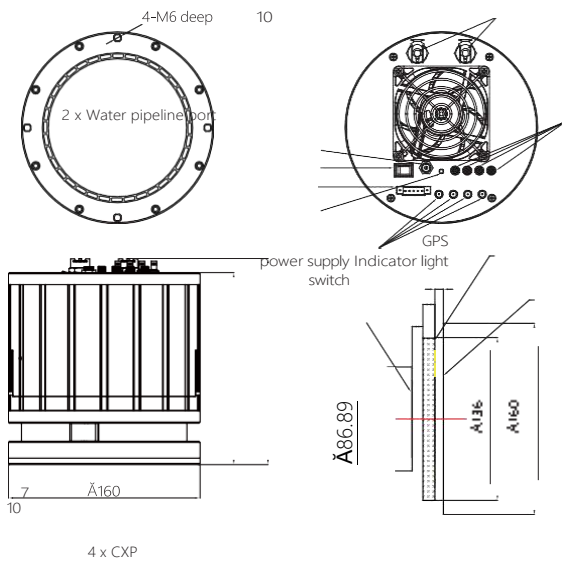


Key Features

- 5.4" large area
- 10 μ m x 10 μ m pixel size
- 71.6%QE@550nm
- 123ke- full well capacity
- 44fps@full resolution
- CXP high-speed interface



Product structure (unit: mm)



Specifications

Model	Dhyana 6060
Sensor model	FSI sCMOS
Shutter type	Rolling
Color/Mono	Mono
Effective area	61.4mm x 61.4mm
Resolution	6144(H) x 6144(V)
Pixel size	10 μ m x 10 μ m
QE	71.6%@550nm
Full-Well capacity	123ke-
Dynamic Range	90dB
Frame rate	44fps @ 12-bit STD; 19fps @ 12-bit HDR; 14fps @ 14-bit STD
Readout noise	4.6e- (Median)
Exposure time	7 μ s-300s
DSNU	4e-
PRNU	0.2%
Cooling Method	Air & Liquid
Cooling temperature	40°C below ambient
Dark current	0.2e-/pixel/s@-20°C
Binning	2x2, 4x4
ROI	Support
TimeStamp	1 μ s accuracy
GPS	Support
Trigger Mode	Hardware & Software
Output Trigger Signals	Exposure, Global, Readout, High level, Low level
Trigger Interface	SMA
Data Interface	CXP12 x 4
Data Bit Depth	12bit, 14bit, 16bit
Optiona Interface	User-customization
Power Supply	12V/10A
Power Consumption	< 100W
Dimensions	$\varnothing 160$ (Diameter) x 164 mm (length)
Weight	< 4kg
Software	Samplepro / MAXIMDL / Labview / Matlab / EPICS
SDK	C/C++/C#
Operating System	Windows/Linux
Operating Environment	Working: Temperature -35~45°C/Humidity 0~95%; Storage: Temperature -35~60°C/Humidity 0~95%

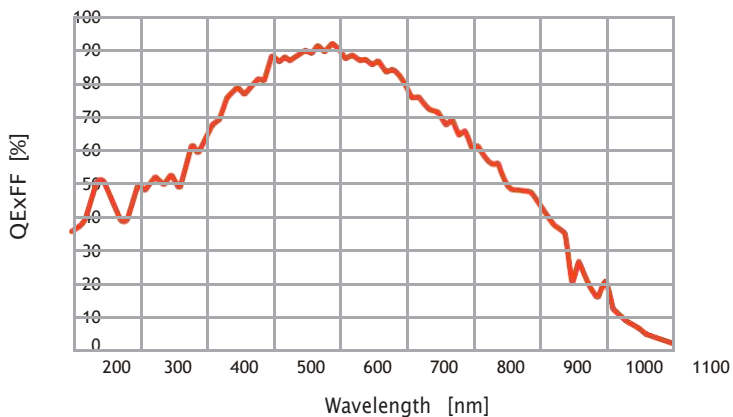
Ultra-large sCMOS Camera

Dhyana 4040BSI

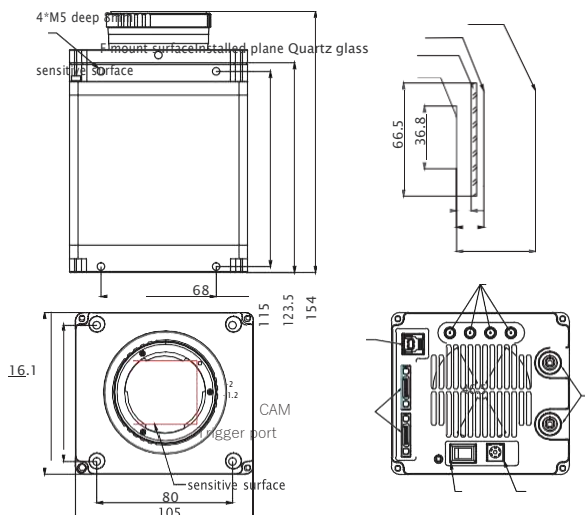


Key Features

- 3.2" large area
- 9 μ m x 9 μ m pixel size
- 39ke- full well capacity
- 4096 x 4096 resolution
- Long exposure time supported
- Excellent cooling performance



Product structure (unit: mm)



Specifications

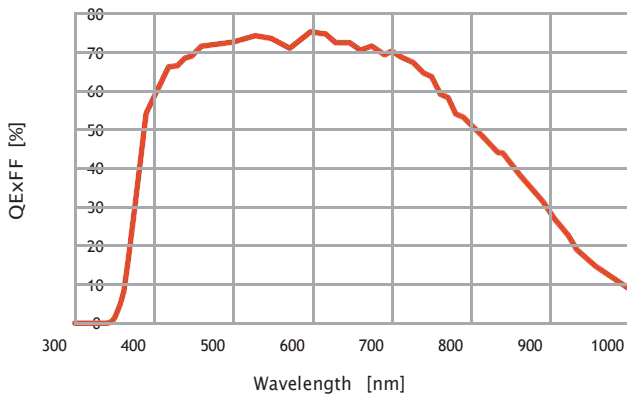
Model	Dhyana 4040BSI
Sensor model	BSI sCMOS
Shutter type	Rolling
Color/Mono	Mono
Effective area	36.9mm x 36.9mm
Resolution	4096(H) x 4096(V)
Pixel size	9 μ m x 9 μ m
QE	90%@550nm
Full-Well capacity	39ke-
Dynamic Range	85 dB
Frame rate	20fps@CameraLink; 10fps@USB3.0
Readout noise	2.3e- (Median value)
Exposure time	10 μ s~300s
DSNU	0.5 e-
PRNU	0.2%
Cooling Method	Air & Liquid
Cooling temperature	Air: (Ambient at +20); -20°C; Liquid: -30°C@20°C
Dark current	Air: 0.15e-/pixel/s; Liquid: 0.1e-/pixel/s
Binning	2x2, 4x4
ROI	Support
TimeStamp	1 μ s accuracy
GPS	Support
Trigger Mode	Hardware & Software
Output Trigger Signals	Exposure, Global, Readout, High level, Low level
Trigger Interface	SMA & CC1
Data Interface	USB3.0 & CameraLink
Data Bit Depth	12bit & 16bit
Optional Interface	Optional F-Mount/User-customization
Power Supply	12V/8A
Power Consumption	< 45W
Dimensions	105mm x 95mm x 123.5mm
Weight	< 2kg
Software	Mosaic1.6/Samplepro/MaximDL/Labview/Matlab
SDK	C/C++/C#
Operating System	Windows/Linux
Operating Environment	Working: Temperature -35 ~ 45°C/Humidity 0~95% Storage: Temperature -35 ~ 60°C/Humidity 0~95%

Ultra-large sCMOS Camera Dhyana 4040

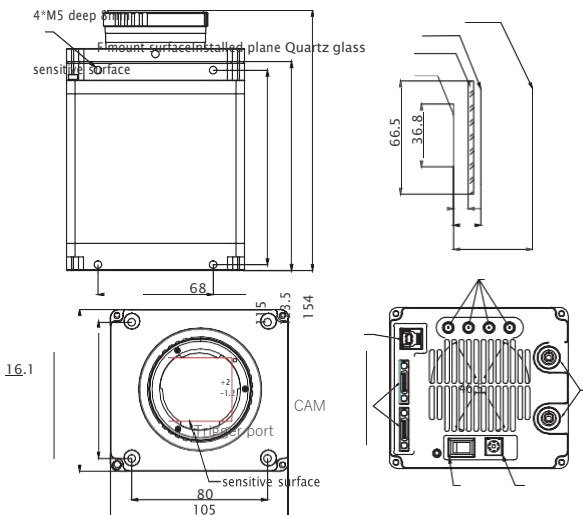


Key Features

- 3.2" large area
- 9µm x 9µm pixel size 70ke- full well capacity
- 4096 x 4096 resolution
- Long exposure time supported
- Excellent cooling performance



Product structure (unit: mm)



Specifications

Model	Dhyana 4040
Sensor model	FSI sCMOS
Shutter type	Rolling
Color/Mono	Mono
Effective area	36.9mm x 36.9mm
Resolution	4096(H) x 4096(V)
Pixel size	9 µm x 9µm
QE	74%@600nm
Full-Well capacity	70ke-
Dynamic Range	86 dB
Frame rate	20fps@CameraLink; 10fps@USB3.0
Readout noise	3.6e- (Median value)
Exposure time	10µs~300s
DSNU	0.5 e-
PRNU	0.2%
Cooling Method	Air & Liquid
Cooling temperature	Air: (Ambient at +20): -20°C; Liquid: -30°C@20°C
Dark current	Air: 0.15e-/pixel/s; Liquid: 0.1e-/pixel/s
Binning	2x2, 4x4
ROI	Support
TimeStamp	1 µs accuracy
GPS	Support
Trigger Mode	Hardware & Software
Output Trigger Signals	Exposure, Global, Readout, High level, Low level
Trigger Interface	SMA & CC1
Data Interface	USB3.0 & CameraLink
Data Bit Depth	12bit & 16bit
Optiona Interface	Optional F-Mount/User-customization
Power Supply	12V/8A
Power Consumption	< 45W
Dimensions	105mm x 95mm x 123.5mm
Weight	< 2kg
Software	Mosaic1.6/Samplepro/MaximDL/Labview/Matlab
SDK	C/C++/C#
Operating System	Windows/Linux
Operating Environment	Working: Temperature -35 ~ 45°C/Humidity 0~95% Storage: Temperature -35 ~ 60°C/Humidity 0~95%