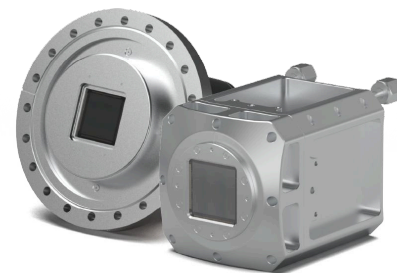
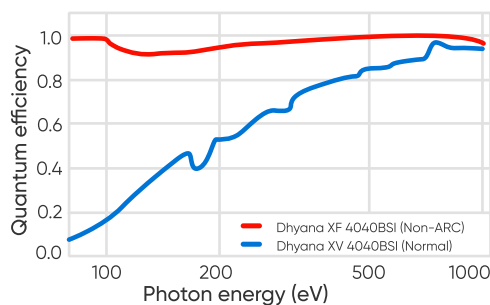


Dhyana XF/ XV4040BSI

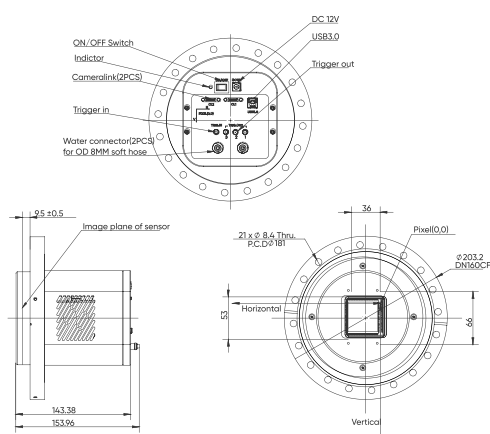
The Dhyana XF / XV 4040BSI series soft X-ray camera features a large-area sensor for high-precision, high-resolution, and wide-field research. It captures larger areas in a single shot, minimizing stitching errors, making it ideal for materials science, nanotechnology, and semiconductor inspection.



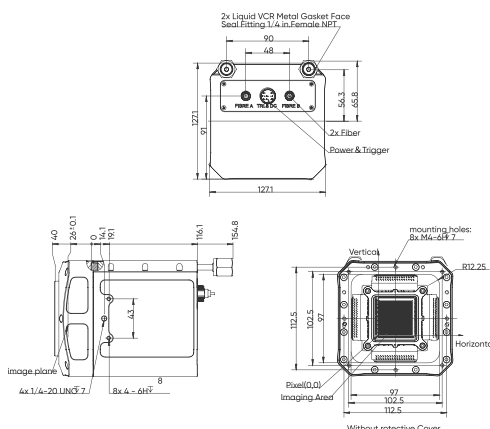
Quantum Efficiency



Dimensions (Unit: mm)



Dhyana XF 4040BSI (Open-Front)



Dhyana XV 4040BSI (In-Vacuum)

Specification

Model	Dhyana XF4040BSI	Dhyana XV4040BSI
Sensor Model	GSENSE4040BSI-PS / GSENSE4040BSI	
Sensor Type	Non Anti-Reflection Coating / Standard BSI sCMOS	
Peak QE	~100%	
Array Diagonal	52.1 mm	
Effective Area	36.9 mm x 36.9 mm	
Resolution	4096 (H) x 4096 (V)	
Pixel Size	9 μm x 9 μm	
Full Well Wapacity	Typical: 37 ke-	
Dynamic Range	80 dB	
Spectral Range	80~1000 eV / 200~1100 nm	
Frame Rate	16.5 fps@CL, 9.7 fps@USB 3.0	9.7 fps@USB 3.0
Readout Noise	Typical: 2.8 e- (Median)	
Shutter Mode	Rolling	
Exposure Time	10 μs ~3600 s	
Linearity	> 99%	
DSNU	0.5 e-	
PRNU	0.2%	
Bit Depth	12 bit, 16 bit	
Cooling Method	Liquid Cooling, Air Cooling	
Cooling Temp.	60°C below ambient	
Dark Current	0.02 e-/pixel/s@-40°C	0.01 e-/pixel/s@-45°C
Vac. Compatibility	10 ⁻⁷ Pa (Max)	10 ⁻⁶ Pa (Max)
Binning	2 x 2, 4 x 4	
ROI	Support	
Timestamp Acc.	1 μs	
Trigger Interface	SMA	
Data Interface	CameraLink, USB 3.0	
Flange Size	DN100CF	Feedthrough DN100CF
	Customization	Customization
Power Supply	12 V / 8 A	AC Power
Power Cons.	T.B.D	≤ 63 W
Weight	~4300 g	~3100 g
Software	Mosaic, SamplePro, LabVIEW, MATLAB	
SDK	C, C++, C#, Python (XV Series only)	

