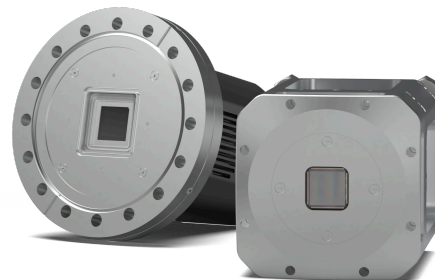
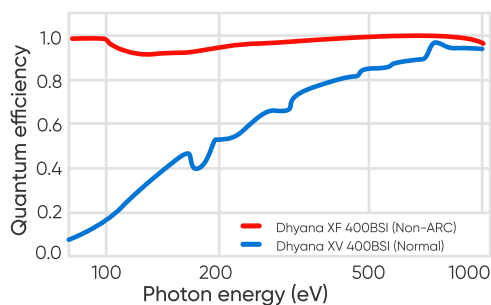


Dhyana XF / XV400BSI

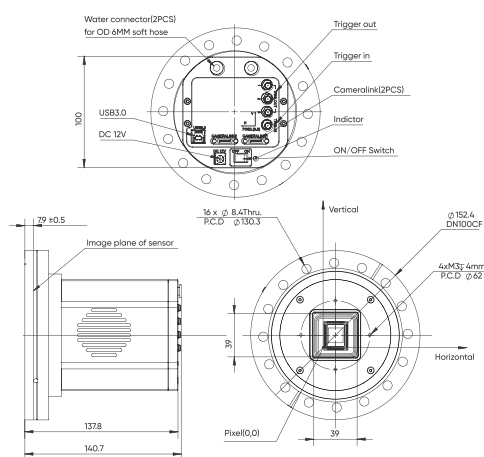
The Dhyana XF / XV 400BSI series soft X-ray camera offers high-precision imaging with 6.5 μm pixels, balancing high SNR and resolution. Its 45 ke⁻ full well capacity ensures a wide dynamic range, handling both strong and weak signals. This delivers key advantages in soft X-ray experiments like scattering studies.



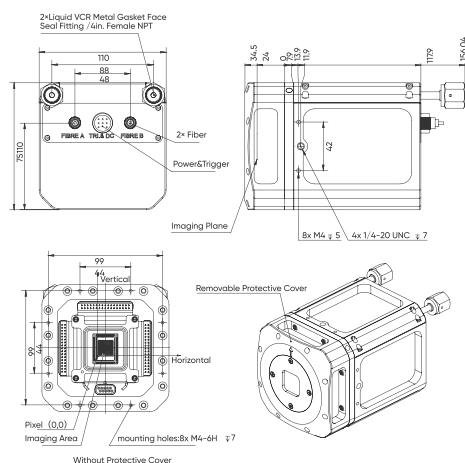
Quantum Efficiency



Dimensions (Unit: mm)



Dhyana XF 400BSI (Open-Front)



Dhyana XV 400BSI (In-Vaccum)

Specification

Model	Dhyana XF400BSI	Dhyana XV400BSI
Sensor Model	GSENSE2020BSI-PS / GSENSE2020BSI	
Sensor Type	Non Anti-Reflection Coating / Standard BSI sCMOS	
Peak QE	~100%	
Array Diagonal	18.8 mm	
Effective Area	13.3 mm x 13.3 mm	
Resolution	2048 (H) x 2048 (V)	
Pixel Size	6.5 μm x 6.5 μm	
Full Well Wapacity	Typical: 45 ke-	
Dynamic Range	90 dB	
Spectral Range	80~1000 eV / 200~1100 nm	
Frame Rate	40 fps@USB 3.0, 100 fps@CL	40 fps@USB 3.0
Readout Noise	Typical: 1.1 e- (Median)	
Shutter Mode	Rolling, Global Reset	
Exposure Time	6.6 μs~300 s	
Linearity	> 99%	
DSNU	0.2 e-	
PRNU	0.3%	
Bit Depth	11 bit, 12 bit, 16 bit	
Cooling Method	Liquid Cooling, Air Cooling	
Cooling Temp.	60°C below ambient	
Dark Current	0.5 e-/pixel/s@-40°C chip temp.	
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	Hirose
Data Interface	CameraLink, USB 3.0	USB 3.0
Flange Size	DN100CF Customization	Feedthrough DN100CF Customization
Power Supply	12 V / 8 A	AC Power
Power Cons.	≤ 65 W	
Weight	~3900 g	~2600 g
Software	Mosaic, SamplePro, LabVIEW, MATLAB, Micro-Manager	
SDK	C, C++, C#, Python (XV Series only)	

