

HySpex Mjolnir VS-620

For applications requiring low mass, combined with high-performance specifications and scientific grade data quality on the full VNIR-SWIR range, HySpex Mjolnir VS-620 is an ideal solution. Sharing the on-board data acquisition unit and navigation system, HySpex Mjolnir VS-620 is both space-efficient and cost-effective.



The VNIR and SWIR optical axis are coaligned in the along track direction, assuring perfect coregistration in the flight direction. In addition to the high-quality hyperspectral data cube, covering the spectral range from 400 - 2500 nm, with 490 bands, double resolution data in the VNIR range is always readily available. With smile and keystone less than 0.1 pixels for each spectral range, the merged Mjolnir VS-620 data product will have coregistration/keystone better than 0.2 pixels for the full VNIR-SWIR range.

MAIN SPECIFICATIONS	V-1240	S-620
Spectral range	400 – 1000 nm	970 – 2500 nm
Combined spectral range	400 – 2500	
Spatial pixels	1240	620
Combined spatial pixels	620	
Spectral channels and sampling	200 bands @ 3.0 nm	300 bands @ 5.1 nm
Combined spectral channels	490	
F-number	F1.8	F1.9
FOV	20°	20°
Combined FOV	20°	
Pixel FOV across/along	0.27/0.54 mrad	0.54/0.54 mrad
Combined Pixel FOV across/along	0.54/0.54 mrad	
Bit resolution (raw data)	12 bit	16 bit
Noise floor	2.3 e-	80 e-
Dynamic range	4400	10000
Peak SNR (at full resolution)	> 180	> 900
Max speed (at full resolution)	285 fps	100 fps
Power consumption*	50 W	
Dimensions (l-w-h)*	374 – 202 – 178 mm	
Weight*	~ 6 kg	

*Includes IMU/GPS and DAU – <6.5 kg including standard battery