

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	
	2x spec. bin	No spec. bin	LG	HG
Spectral range	400 - 1000 nm		970 - 2500 nm	
Combined spectral range	400 - 2500 nm			
Spatial pixels	1240		620	
Combined spatial pixels	620			
Spectral channels	200	400	300	
Combined spectral channels	490			
Spectral sampling	3 nm	1.5 nm	5.1 nm	
F-number	f/1.8		f/1.9	
FOV	20°		20°	
Combined FOV	20°			
Pixel FOV across/along	0.275/0.55 mrad		0.55/0.55 mrad	
Combined pixel FOV across/along	0.55/0.55 mrad			
Bit resolution (raw data)	12 bit		16 bit	
Noise floor	3.2 e-	2.3 e-	350 e-	80 e-
Dynamic range	13200	11700	10000	5000
Peak SNR (at full resolution)	> 260	> 220	> 2000	> 600
Max speed (at full resolution)	250 fps		125 fps	
Power consumption*	50 W*			
Dimensions (l-w-h)	374 - 202 - 178 mm			
Weight**	~6 kg**			

* Includes IMU/GPS and Data Acquisition Unit

** <6.5 kg with standard battery