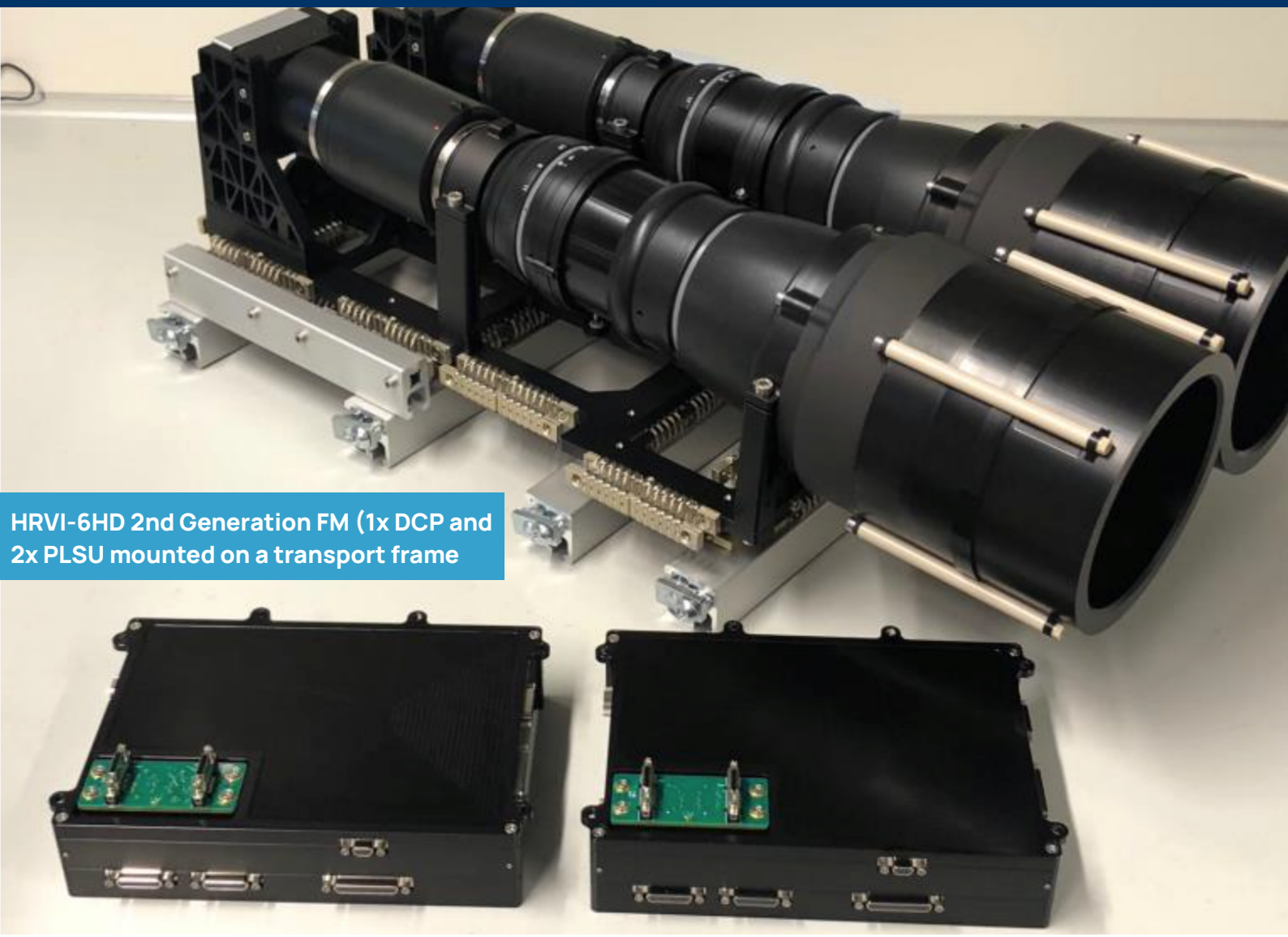


HRVI-6HD 2nd Generation FM (1x DCP and 2x PLSU mounted on a transport frame

HRVI-6HD 2ND GENERATION

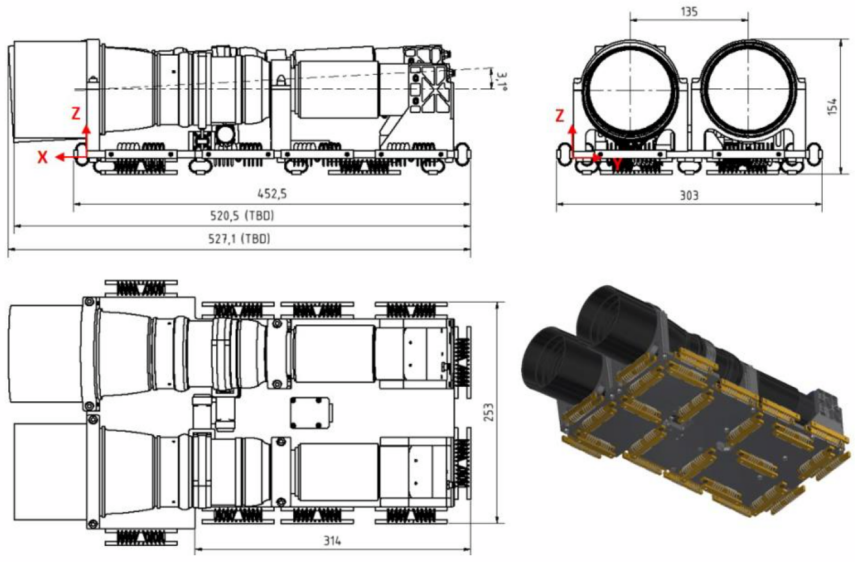
The HRVI-6HD 2nd Generation is the latest version of our heritage-line camera systems. It consists of three sub-units, the DCP (Dual Camera Payload) and two PLSU (Payload Support Units), with one attached to each of the DCP's two optical heads. The HRVI-6HD 2nd Gen offers 4.6 m GSD resolution with a 70 km swath. The hyperspectral version provides flexibility to adjust the GSD/SNR/spectral resolution to the mission's needs. More information can be found in the ICD.

FURTHER INFORMATION: Max-Planck-Str. 3 12489 Berlin, Germany I info@berlin-space-tech.com
www.berlin-space-tech.com

TECHNICAL SPECIFICATIONS

SPECIFICATION	MULTISPECTRAL	SUPER SPECTRAL	HYPER SPECTRAL
Resolution (@ 500 km)	4.6 m / 9.2 m (PAN / MS)	5.4 m (MS)	4.6 m / 9.2 m / 27. 6 m (PAN / MS / HS)
Swath Width (@ 500 km)	70 km		27 km
Spectral Band	450 - 900 nm		HS: 450 - 950 nm
Channels	1 (PAN) + 4 (MS)	7	1 + 4 + 100
MTF	> 0.1 – across the field and at full resolution		
SNR	> 100 / > 100	> 100	> 100 / > 100 / > 90
Size	DCP (with baffle): 540 x 320 x 170 mm^3 without PLSU		
Total Mass	10.450 kg (PLSU + 2x DCP)		
Temperature Range	0 to 30°C / -15°C to +35°C (Op / Non-op)		
Design Life	5 years in LEO		

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Mechanical Interface

INTERFACES AND CAPABILITIES

MULTISPECTRAL SUPER SPECTRAL HYPER SPECTRAL

1 x DCP			
2 x Lens	89 mm aperture, 500 mm focal length In-Orbit Focus System: Yes Thermal System: Heaters		
Filter and Spectral Bands	PAN: 450 - 900 nm BLUE: 450 - 520 nm GREEN: 520 - 600 nm RED: 630 - 690 nm NIR: 750 - 900 nm	Coastal I: 400 - 450 nm Blue II: 450 - 520 nm Green: 520 - 580 nm Yellow: 580 - 630 nm Red: 630 - 690 nm Red Edge: 690 - 750 nm NIR: 750 - 900 nm	PAN + MS as in Multispectral version +100 HS channels 450 - 950 nm 2 - 4% FWHM, OD4, spectral sampling distance 5.0 nm
2 x FPU	Detector size: 2x 7920 x 6004 px Bit Depth (User Selectable): 8 / 10 / 12		
2 x PLSU	**Per Unit**		
Storage	1 TB		
Compression	JPEG Selectable ratio		
Encryption Engine	Yes		
CCSDS Engine	Yes		
X-Band Data Output	1x LVDS — 100 Mbit/s (up to 1 Gbit/s optional), Gigabit Ethernet		
TM/TC Interface	RS422		