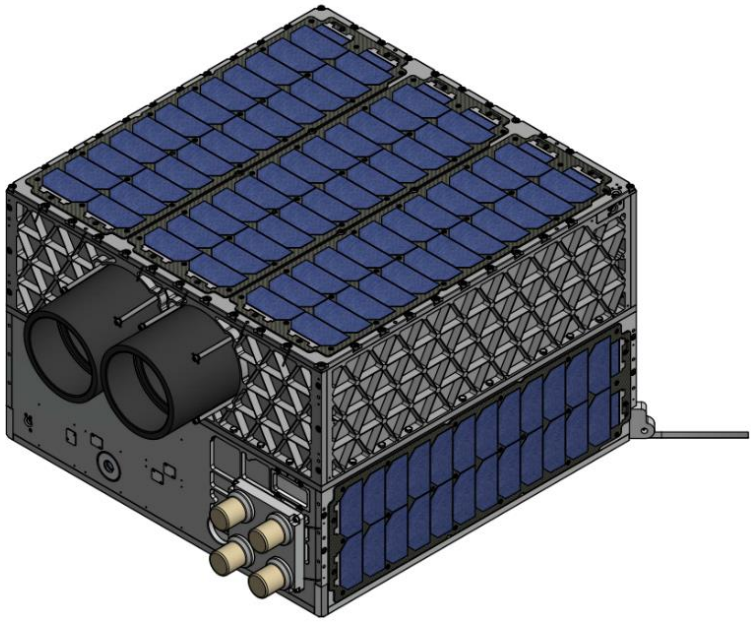
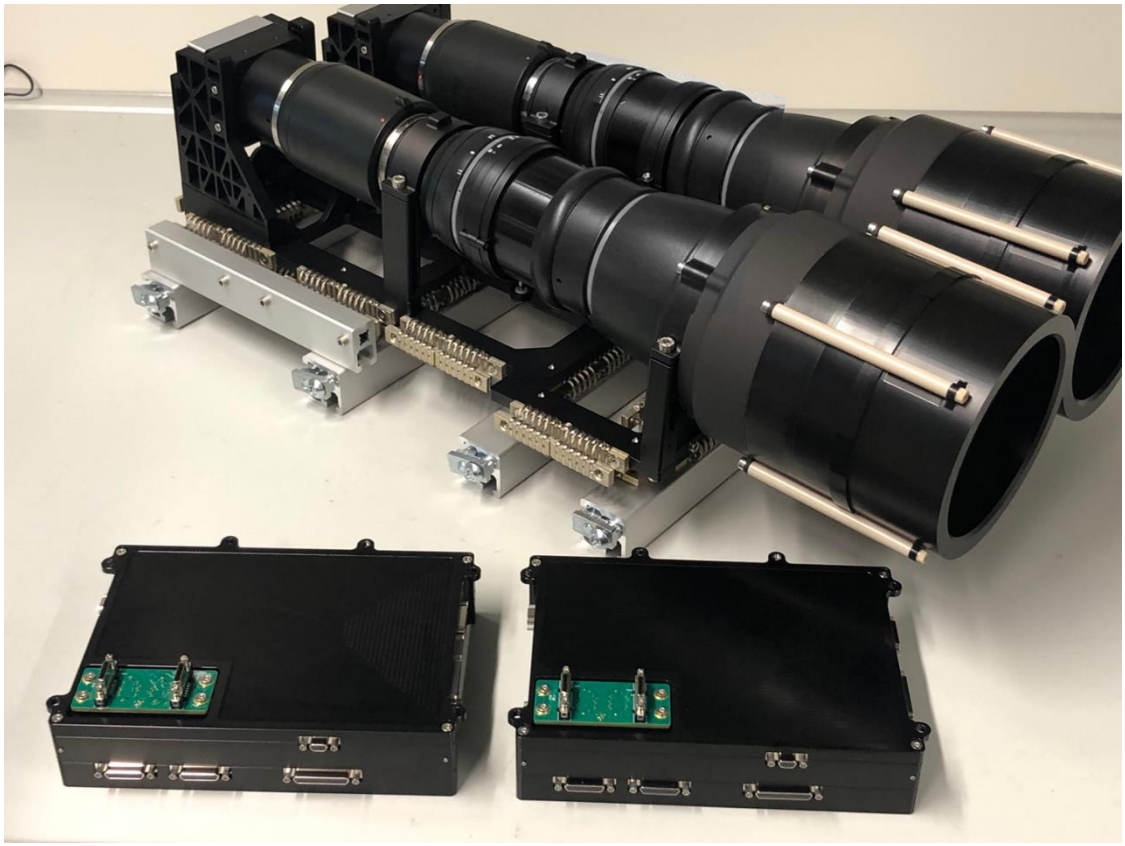
LEOS-50MR

The LEOS-50MR is based on the second generation of LEOS-50 satellites. It is a small satellite platform for medium sized payloads. BST suggests using the satellite for payloads with up to 15kg mass like our HRVI-6HD 2nd generation.



LEOS-50MR

CHARACTERISTICS	
System	Volume: 570x570x400mm³ Mass: 75kg with electric propulsion Design Life: 5 year LEO
Payload	550x550x200mm³ 10-15kg (recommended) 25W av. 250W peak
Bus	Very Fast Target Pointing (5°/s), S-Band TT&C, 320Mbit/s X-Band downlink, Fully Encrypted (Data & TT&C), Electrical Propulsion



SPECIFICATION	Multispectral	Super Spectral	Hyper Spectral
Resolution (@ 500km)	4.6m / 9.2m (PAN / MS)	5.4m (MS)	4.6m / 9.2m / 27.6 (PAN / MS / HS)
Swath Width (@ 500km)	70km	70km	36km
Spectral Band	450-900nm	450-900nm	MS: 450-900nm
Channels	1+4	7	1+4+100
MTF	>0.1 - across the field & at full resolution		
SNR	>100 / >100	>100	>100 / >100 / >80
Size (x,y,z)	DCP (with Baffle): 540x320x170mm³ w/o PLSU		
Total Mass	10.450 kg (DCP + 2x PLSU)		
Temperature	0 to 30°C / -15°C to +35°C (OP/Non-Op)		
Design Life	5 years LEO		

DCP: Dual Camera Payload, PLSU: Payload Support Unit