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OPTICAL PAYLOADS

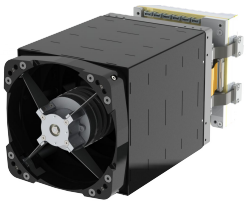
MOTION-COMPENSATED IMAGING FOR NEXT-GEN EO MISSIONS



– OPTICS IN ACTION –

ST-100

Compact 2U Earth observation payload built around a 92 mm Ritchey-Chrétien-Cassegrain telescope. Athermal design, active focusing and active motion compensation deliver sharp 3.1 m GSD imagery across a 16.8 km swath.



3.1 m
GSD @ 500 km

16.8 km
Swath @ 500 km

30 / 36 MP
Sensor options

2.1 kg
Mass

OPTICS

Optical design	Ritchey-Chrétien-Cassegrain
Aperture	92 mm
Focal length	520 mm, F/5.6
FOV	1.9°
Spectral range	450 to 900 nm*

IMAGING

GSD	1.9 m	@ 300 km
	3.1 m	@ 500 km
Swath width	10.1 km	@ 300 km
	16.8 km	@ 500 km
	65 km	@ 500 km, wide-area scan
Spectral channels	5 (up to 16)	
Sensor	30 MP (5460 × 5460) | 36 MP (6144 × 6144)*	
Features	■ **Wide-area scan** ■ **Agile imaging** ■ Forward motion compensation ■ Active focuser ■ Onboard image processing	

MECHANICAL & ENVIRONMENT

Mechanical design	Athermal design
Temperature range	−50 to +70 °C (survival) | −30 to +60 °C (operational)
Power consumption	0.36 / 4.69 / 9.94 W (idle / processing / imaging)
Mass	2094 g
Envelope	2U: 220 × 100 × 100 mm, incl. sensor & electronics

* Other options, such as SWIR or LWIR, on request.

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– OPTICS IN ACTION –

TALK TO US

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