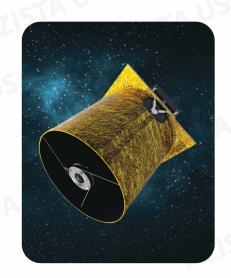


FineView

Ultra High Resolution, Electro-optical Payload

The Azista FineView is an optical earth-observation payload designed and produced in India. It is built for high-quality panchromatic (PAN) and multispectral data at submeter levels and is engineered for a lifespan of over five years in a Low-Earth Orbit. Initially created to meet Azista's own high-performance spaceborne imaging requirements, this payload is now offered as a next gen product.

The payload is tailored to support ISR (intelligence, surveillance, and reconnaissance) constellations. This capability stems from Azista's inherent strengths in mass manufacturing with quick turnaround times. FineView undergoes rigorous on-ground and in orbit payload test and calibration processes to ensure precise image quality metrics.



Salient features



Resolution 0.47 m PAN GSD



Swath Upto 22.5 km @ 500km



Imaging Spectral Bands 2 x PAN (Offset Pixel Row), 6 x Multispectral



Stellar TDI Performance

- Purely Charge Domain
- Bidirectional
- Multispectral
- Selectable stages
- Excellent Product SNR & MTF



Easy integration



Design qualified for most launchers



Applications
Fine Resolution Earth Observation
ISR

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Parameter ¹	Condition	Specification		A	Units	Remarks	
~ U3h	.ısA	Min	Typ/Mid	Max		AL.	
1511	CLUA	lma	ging Specificat	tions			
GSD	PAN	15TA	0.47	TAU	S m	@500km orbit	
	MX	< 1.4			m	A GOVERNMENT	
Swath	.P.	Upto 22.5			km		
Type of sensor	PAN and MX	Charge-transfer (Analog) TDI				Bidirectional	
Quantization Dynamic Range	AZISTA	-715	12		bits	IISA	
Spectral Ranges	PAN	400		900	nm	Panchromatic	
	MX1	400		450	nm	Coastal Blue	
	MX2	450		520	nm	Blue	
	MX3	520		590	nm	Green	
	MX4	630	CTD	690	nm	Red	
	MX5	700		750	nm	Red Edge	
	MX6	770		890	nm	Near-Infrared	
Optics Aperture	ASI		500		mm	Clear Aperture	
Signal To Noise Ratio		> 125 for PAN at 20% albedo and 60° solar elevation > 50 for PAN at 15% albedo and 15° solar elevation 11%					
MILE	A	Electronics Interface Specifications				Nyquist Frequency	
Electrical Grounding	Power input ice			isolated from the	o structuro		
*****	Tower input isc	18	28	32	V	Naminal	
Power supply voltage	A .:	10		32	A U P'	Nominal	
Functional Power Demand	Active		100/190	. 1151 1	W	Average/ Peak	
Bus Interface	Hibernating RS422 UART	CAN/MIL STI		E-WIRE control &	-	eset, RS422 Boot Health,	
Data Output Interfaces	181	CML S	SERDES/ 10G Et	hernet	16		
Data Connectors	PZ13	AirBorn verSI		TA UP	For SERDES option		
Power/Control connector		Standard D-sub			1211	1715TA	
TAUST	USA	Mech	anical Specific	ations		A	
Material of Main Mirrors	TAV	SiC		A			
Material of Structure		SiC		7	USA		
Mass	A.A.	< 50			kg	U-1	
Envelope		650 x 650 x 1250			mm	JISTA "	

Note:

1. All parameters are specified for a 500km orbit or unless otherwise specified.

Abbreviations:

- PAN: Panchromatic MX: Multispectral LEO: Low Earth Orbit ISR: Intelligence Surveillance and Reconnaissance TDI: Time-Delay Integration
- SNR: Signal to Noise ratio GSD: Ground Sampling Distance GRD: Ground Resolved Distance



