



MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR

Gather actionable intelligence using a high performance, airborne radar in all weather, day or night, for ground and maritime environments.

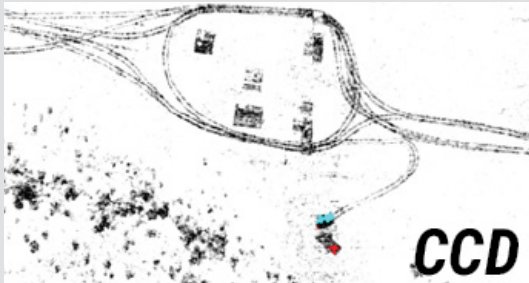
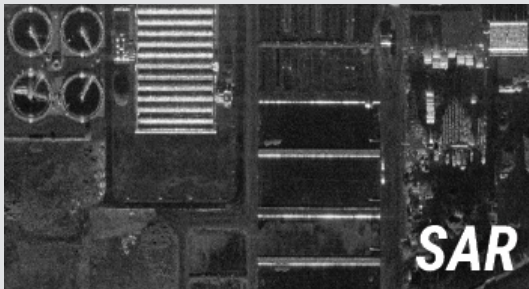


NSP-2

Designed to fly on Group 1-2 uncrewed airborne platforms.
Custom installations available.



CAPABILITIES



PRELIMINARY SYSTEM SPECIFICATIONS

SIZE	RADAR ELECTRONICS ASSEMBLY: 2U MOD PAYLOAD LENGTH: 6.6 IN (16.8 CM) WIDTH: 4.3 IN (10.9 CM) HEIGHT: 3.1 IN (7.7 CM)	ANTENNA ASSEMBLY: LENGTH: 11.75 IN (29.85 CM) WIDTH: 2.75 IN (6.99 CM) HEIGHT: 1.75 IN (4.45 CM)
WEIGHT	<4.65 LBS (2.1 KG) (MAY CHANGE BASED ON CONFIGURATION)	
POWER	<56 W, 28 VDC	
FREQUENCY	KU	
TARGET PLATFORMS	GROUP 1-2 UNCREWED AIRBORNE VEHICLES	
RECOMMENDED MAINTENANCE INTERVAL	TBD	
SENSOR CUEING	CURSOR ON TARGET	
COMMUNICATION	ETHERNET	
SERVER	GROUND PROCESSING SERVER REQUIRED (SIZE AND WEIGHT NOT INCLUDED IN SPECIFICATIONS ABOVE)	
COMMAND & CONTROL	LISA 3D™ AND RADAR CONTROL API	
IMAGE EXPLOITATION	LISA 3D™ OR EXISTING PED EQUIPMENT	
STANDARD DATA PRODUCTS	KML, COMPLEX NITF, JPG, PNG, BMP, STANAG 4607, STANAG 4676	
TRL	7	

ESTIMATED PERFORMANCE DATA

SAR IMAGING	RESOLUTION	0.3 M	1 M
	MAX RANGE	3.9 KM	5.8 KM
MOVING TARGET INDICATOR VEHICLE	DETECTION AND TRACKING (GMTI)		3 KM
MARITIME SURVEILLANCE	DETECTION AND GEOLOCATION (SAR)		60 NM (111 KM)
	DETECTION AND TRACKING (MMTI)		19 NM (35 KM)
	CLASSIFICATION (ISAR)		11 NM (20 KM)
	MMTI MAX COVERAGE AT 30 KTAS		600 NM²/HR (2,050 KM²/HR)

CAPABILITY VARIANTS

	NSP-2(S)	NSP-2(X)
IMAGING	SAR	SAR
OPERATING MODES	STRIPMAP, SPOTLIGHT, WIDE AREA	STRIPMAP, SPOTLIGHT, WIDE AREA
CHANGE DETECTION	NON -COHERENT (MCD)	NON -COHERENT (MCD)
	---	COHERENT (CCD)
MOVING TARGET INDICATOR	VEHICLE TRACKING	VEHICLE & DISMOUNT TRACKING
MARITIME SURVEILLANCE	TRACKING, ISAR, SECTOR SCAN	TRACKING, ISAR, SECTOR SCAN
RESOLUTION (METERS)	0.3, 0.5, 1, 2, 5, 10	0.1, 0.3, 0.5, 1, 2, 5, 10

APPLICATIONS

- Specialized ISR Missions
- Counter-Narcotics
- Search & Rescue
- Wildland Fire Monitoring
- Pipeline Monitoring
- Illegal Migrant Operations
- Coastal Mapping
- Sea Ice Detection & Monitoring
- And More!
- Railroad Monitoring



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