

NSP-7



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.

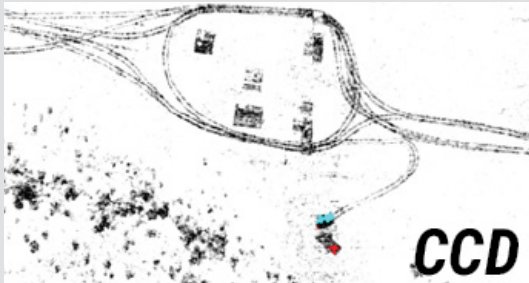
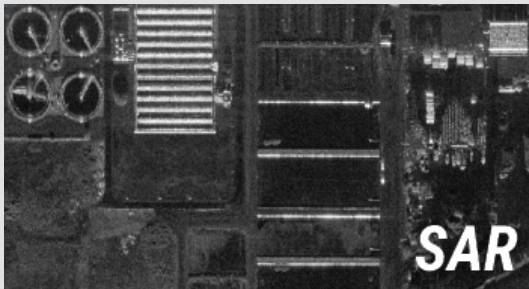


NSP-7

Designed to fly on Group 4-5 uncrewed airborne platforms and crewed aircraft.



CAPABILITIES



SYSTEM SPECIFICATIONS

SIZE (STANDARD STRONGBACK CONFIGURATION)	DIAMETER: 5.4 IN (13.7 CM) LENGTH: 58.1 IN (147.6 CM) HEIGHT: 6.8 IN (17.3 CM)
WEIGHT (STANDARD STRONGBACK CONFIGURATION)	24 LBS (10.9 KG)
POWER	300 W CONFIGURABLE, 28 VDC
FREQUENCY	KU
TARGET PLATFORMS	GROUP 4-5 UAS, CREWED AIRCRAFT
ENVIRONMENTAL	MIL-STD-810G: OPERATIONAL AND STORAGE TEMPERATURE, RAIN, SALT SPRAY, HUMIDITY, TEMPERATURE SHOCK, OPERATIONAL VIBRATION, SHOCK LOAD
RECOMMENDED MAINTENANCE INTERVAL	~ 2,000 HRS
SENSOR CUEING	CURSOR ON TARGET
COMMUNICATION	ETHERNET
SERVER	AIRBORNE OR 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	9

PERFORMANCE DATA

SAR IMAGING	RESOLUTION	0.3 M	1 M
	MAX RANGE	31 KM	44 KM
MOVING TARGET INDICATOR VEHICLE	DETECTION AND TRACKING (GMTI)		24 KM
MARITIME SURVEILLANCE	DETECTION AND GEOLOCATION (SAR)		172 NM (319 KM)
	DETECTION AND TRACKING (MMTI)		134 NM (248 KM)
	CLASSIFICATION (ISAR)		117 NM (217 KM)
	MMTI MAX COVERAGE AT 150 KTAS		19300²/HR (35,743 KM²/HR)

CAPABILITY VARIANTS

	NSP-7(S)	NSP-7(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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