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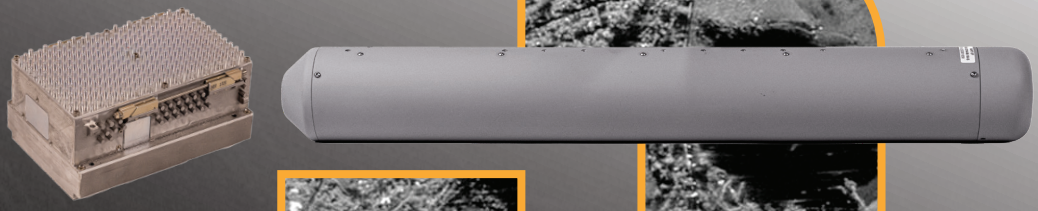
NSP



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

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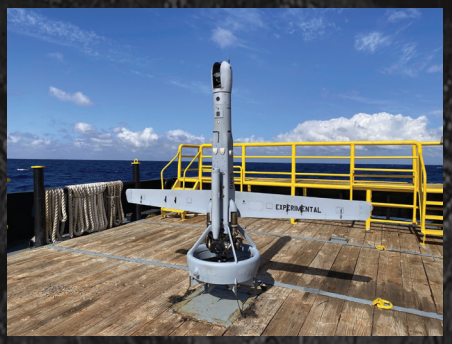
VERSION 1 OCT.26.2026

NSP-3

Designed to fly on Group 2-3 UAS platforms.
Custom installations available.

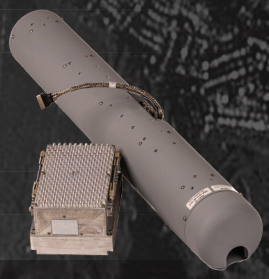


PERFORMANCE DATA

SAR IMAGING	Resolution	0.3 m	1 m
	Max Range	9 km	13 km
MOVING TARGET INDICATOR (VEHICLE)	Detection & Tracking (GMTI)		6.5 km
MARITIME SURVEILLANCE	Detection & Geolocation (SAR)		77 nmi (143 km)
	Detection & Tracking (MMTI)		42 nmi (78 km)
	Classification (ISAR) At 50 KTAS		37 nmi (69 km)
	MMTI Max Coverage At 50 KTAS		2050 nmi^2/h (7030 km^2/h)

CAPABILITES

IMAGING	SAR
OPERATING MODES	Stripmap, Spotlight, Wide Area
CHANGE DETECTION	Non-Coherent (MCD) Coherent (CCD)
MOVING TARGET INDICATOR	Vehicle & Dismount Tracking
MARITIME SURVEILLANCE	Tracking, ISAR, Sector Scan
RESOLUTIONS	0.1-10 m

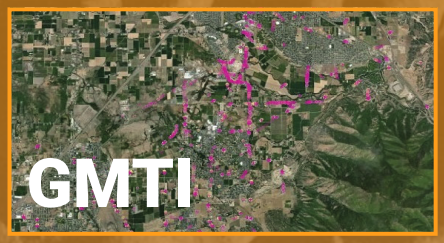


APPLICATIONS

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

SYSTEM SPECIFICATIONS

SIZE (MODSAR CONFIGURATION)	ModSAR 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 pod: Diameter: 3.75 in (9.5 cm) Length: 26.5 in (67.3 cm)
WEIGHT (MODSAR CONFIGURATION)	5.9 lb. (2.7 kg) (With a 30 in cable set)	
POWER	≤74 W, 28 VDC	
FREQUENCY	Ku	
TARGET PLATFORMS	Group 2-3 UAS	
ENVIRONMENTAL	MIL-STD-810G: Operational and storage temperature, rain, salt spray, humidity, temperature shock, operational vibration, shock load.	
RECOMMENDED MAINTENANCE INTERVAL	~1,250 hrs	
SENSOR CUEING	Cursor on Target (CoT)	
COMMUNICATION	Ethernet	
SERVER	Ground processing server required (Size & 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	



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