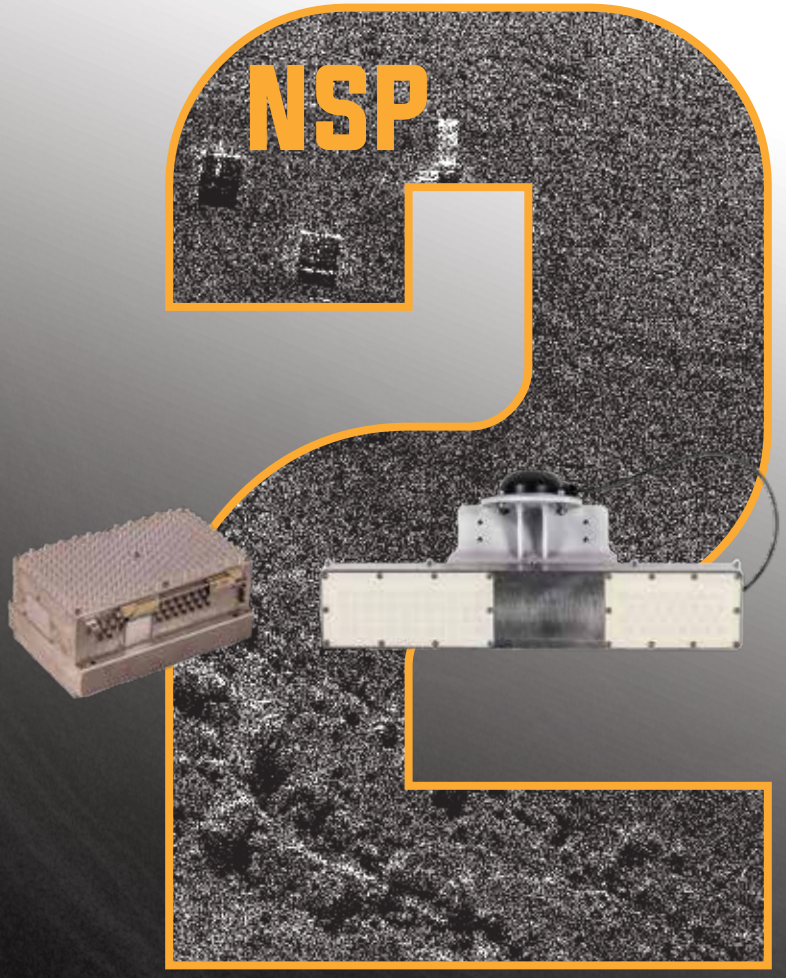
IMSAR



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

WWW.IMSAR.COM

VERSION 1 OCT.26.2026

NSP-2

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









PERFORMANCE DATA

SAR IMAGING	Resolution	0.3 m	1 m
	Max Range	4.5 km	6 km
MOVING TARGET INDICATOR (VEHICLE)	Detection & Tracking (GMTI)		3 km
MARITIME SURVEILLANCE	Detection & Geolocation (SAR)		63 nmi (117 km)
	Detection & Tracking (MMTI)		24 nmi (44 km)
	Classification (ISAR)		19 nmi (35 km)
	MMTI Max Coverage At 50 KTAS		600 nmi²/h (2,050 km²/h)

CAPABILITIES

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: Length: 11.5 in (29.2 cm) Width: 2.5 in (6.35 cm) Height: 1.4 in (3.6 cm)
WEIGHT (MODSAR CONFIGURATION)	3.25-4.65 lb. (1.5-2.1 kg) (Configuration dependent)	
POWER	≤56 W, 28 VDC	
FREQUENCY	Ku	
TARGET PLATFORMS	Group 1-2 UAS	
RECOMMENDED MAINTENANCE INTERVAL	None	
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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