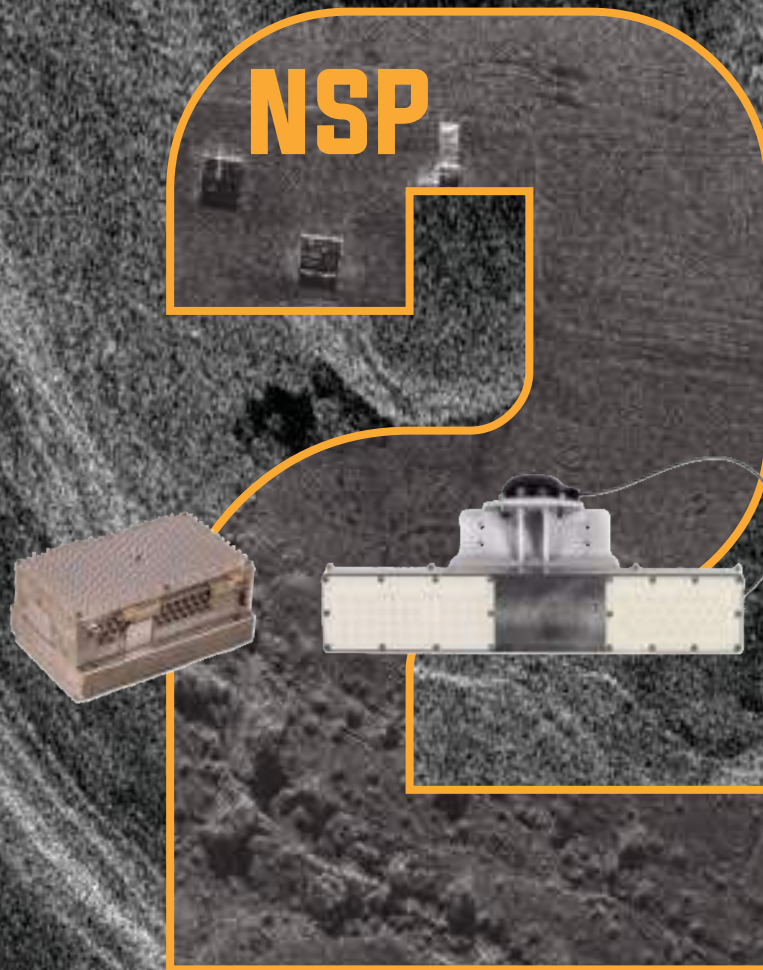




MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR

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

WWW.IMSAR.COM



NSP-2

PERFORMANCE DATA

SAR IMAGING

Resolution	0.1 m	1 m
Max Range	1.5 km	6 km
Detection & Tracking (GMTI)		3 km
Detection & Geolocation (SAR)		63 nmi (319 km)
Detection & Tracking (MMTI)		24 nmi (187 km)
Classification (ISAR)		19 nmi (165 km)
MMTI Max Coverage At 50 KTAS		600 nmi ² /h (2,050 km ² /h)

MOVING TARGET INDICATOR (VEHICLE)

MARITIME SURVEILLANCE

CAPABILITIES

IMAGING

OPERATING MODES

CHANGE DETECTION

MOVING TARGET INDICATOR

MARITIME SURVEILLANCE

RESOLUTION

SAR
Stripmap, Spotlight, Wide Area
Non-Coherent (MCD)
Coherent (CCD)
Vehicle & Dismount Tracking
Tracking, ISAR, Sector Scan
0.1, 0.3, 0.5, 1, 2, 5, 10



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	Antenna pod:
Electronics assembly:	Length: 11.5 in (29.2 cm)
2U Mod Payload	Width: 2.5 in (6.35 cm)
Length: 6.6 in (16.8 cm)	Height: 1.4 in (3.6 cm)
Width: 4.3 in (10.9 cm)	
Height: 3.1 in (7.7 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

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

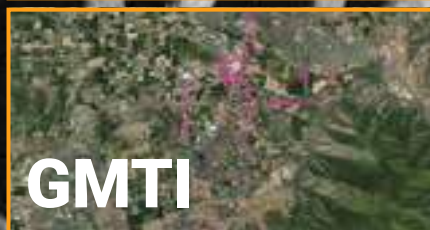
TRL

9

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



SAR



GMTI



MMTI



CCD

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