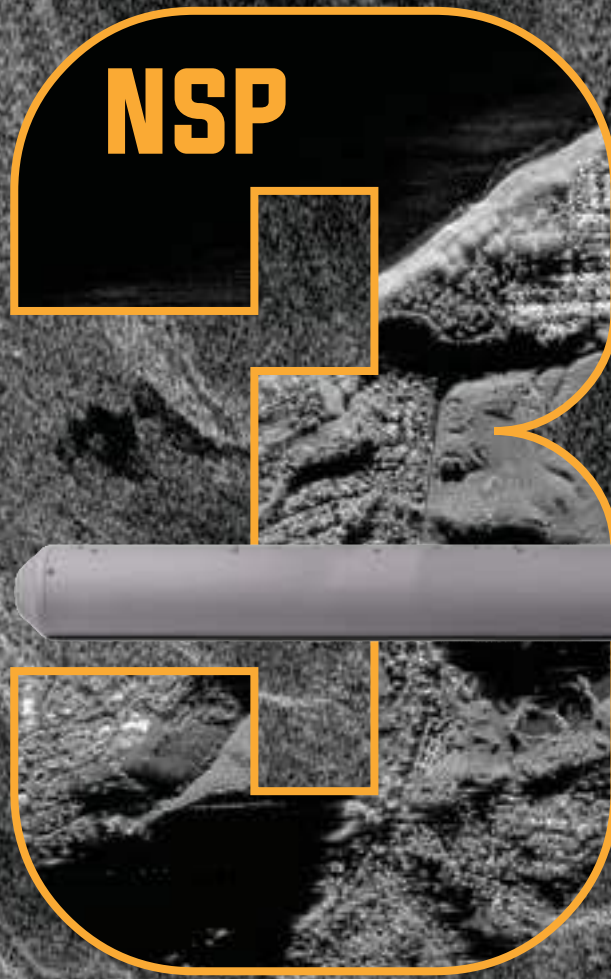


MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR

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



WWW.IMSAR.COM

NSP-3

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

PERFORMANCE DATA

SAR IMAGING

Resolution	0.1 m	1 m
Max Range	3 km	13 km
Detection & Tracking (GMTI)		6.5 km
Detection & Geolocation (SAR)		77 nmi (143 km)
Detection & Tracking (MMTI)		42 nmi (78 km)
Classification (ISAR) At 50 KTAS		2,050 nmi ² /hr (7,030 km ² /hr)

MOVING TARGET INDICATOR (VEHICLE)

MARITIME SURVEILLANCE

CAPABILITIES

IMAGING

<74 W, 28 VDC

OPERATING MODES

Ku

CHANGE DETECTION

Non-Coherent (MCD)
Coherent (CCD)

MOVING TARGET INDICATOR

Vehicle & Dismount Tracking

MARITIME SURVEILLANCE

Tracking, ISAR, Sector Scan

RESOLUTION

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
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

RECOMMENDED MAINTENANCE INTERVAL

~1,250 hrs

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

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SAR



GMTI



MMTI



CCD