



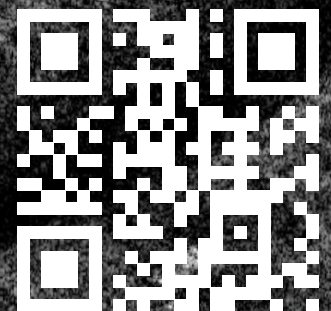
NSP



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

WWW.IMSAR.COM



NSP-7

Designed to fly on Group 2-3 uncrewed airborne platforms and manned aircraft. Custom installations available.

PERFORMANCE DATA

SAR IMAGING

Resolution	0.1 M	1M
Max Range	3 KM	13 KM

MOVING TARGET INDICATOR (VEHICLE)

Detection & Tracking (GMTI)	6.5 KM
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MARITIME SURVEILLANCE

Detection & Geolocation (SAR)	77 NM (143 KM)
Detection & Tracking (MMTI)	42 NM (78 KM)
Classification (ISAR) At 50 KTAS	2,050 NM/HR (7,030 KM/HR)

SYSTEM SPECIFICATIONS

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



CAPABILITIES

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 lbs (2.7 kg) (With a 30" 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

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