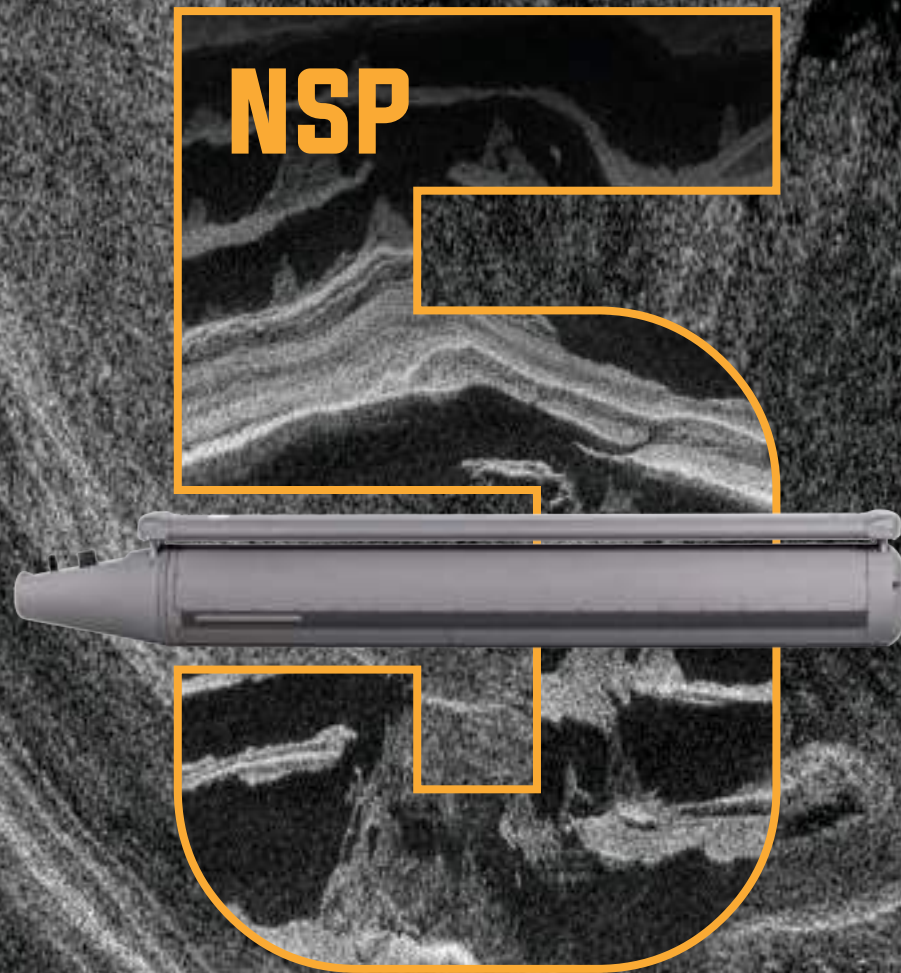




MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR

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

WWW.IMSAR.COM



NSP-5

Designed to fly on
Group 3-4 UAS platforms.
Custom installations available.

PERFORMANCE DATA

SAR IMAGING

Resolution	0.1 m	1 m
Max Range	13 km	47 km
Detection & Tracking (GMTI)		21 km
Detection & Geolocation (SAR)		172 nmi (319 km)
Detection & Tracking (MMTI)		101 nmi (187 km)
Classification (ISAR)		89 nmi (165 km)
MMTI Max Coverage At 80 KTAS		7,900 nmi ² /h (27,000 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

(Standard Strongback Configuration)

Diameter: 5.4 in (13.7 cm)
Length : 46.4 in (117.9 cm)
Height: 6.8 in (17.3 cm)

WEIGHT

(Standard Strongback Configuration)

16.5 lb. (7.5 kg)

POWER

130 W, 28 VDC, 130 W Typical, 190 W Max

FREQUENCY

Ku

TARGET PLATFORMS

Group 3-4 UAS

ENVIRONMENTAL

MIL-STD-810G: Operational and storage temperature, rain, salt spray, humidity, temperature shock, operational vibration, shock load.

RECOMMENDED MAINTENANCE INTERVAL

~2,000 hrs

SENSOR CUEING

Cursor on Target

COMMUNICATION

Ethernet

SERVER

Airborne or ground processing server required
(Size and 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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