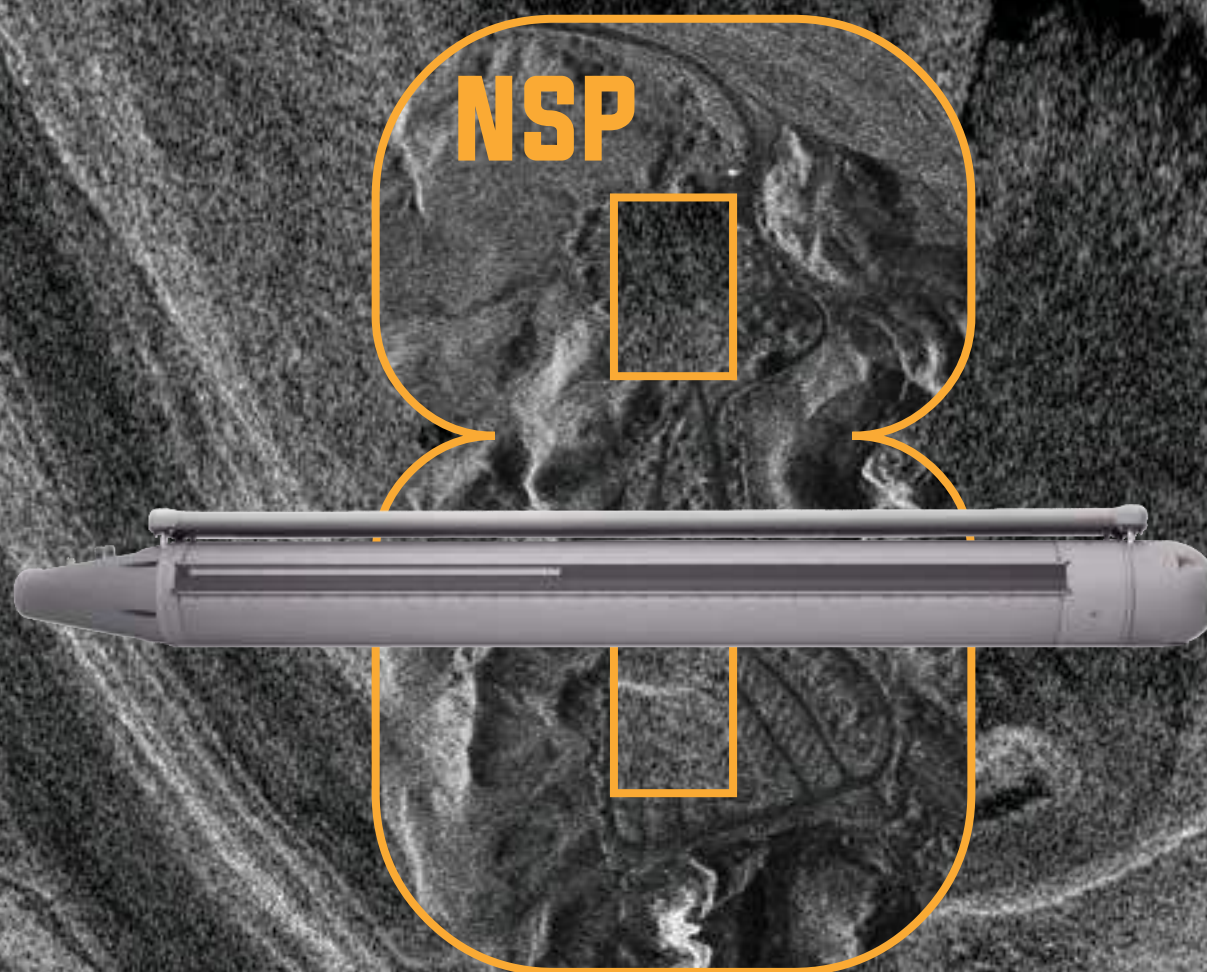




MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR

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

WWW.IMSAR.COM



NSP-8

Designed to fly on Group 4-5
UAS platforms and crewed aircraft.
Custom installations available.

PERFORMANCE DATA

SAR IMAGING

Resolution	0.1 m	1 m
Max Range	19 km	72 km
Detection & Tracking (GMTI)		39 km
Detection & Geolocation (SAR)		225 nmi (415 km)
Detection & Tracking (MMTI)		159 nmi (295 km)
Classification (ISAR)		130 nmi (240 km)
MMTI Max Coverage At 150 KTAS		23,000 nmi ² /h (79,000 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 : 58.8 IN (149.4 cm)
Height: 6.8 IN (17.3 cm)

WEIGHT

(Standard Strongback Configuration)

25.8 LBS (11.7 kg)

POWER

300 W Configurable, 28 VDC

FREQUENCY

Ku

TARGET PLATFORMS

Group 4-5 UAS, Crewed Aircraft

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

8



SAR

GMTI

MMTI

CCD

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