



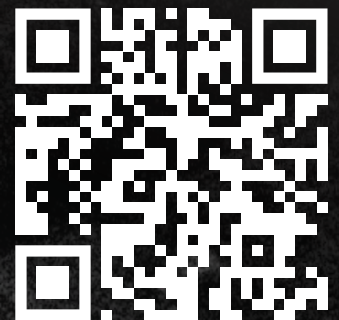
NSP



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

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NSP-7

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	10 km	44 km
MOVING TARGET INDICATOR (VEHICLE)	Detection & Tracking (GMTI)	24 km	
MARITIME SURVEILLANCE	Detection & Geolocation (SAR)	172 nm (319 km)	
	Detection & Tracking (MMTI)	134 nm (248 km)	
	Classification (ISAR)	117 nm (217 km)	
	MMTI Max Coverage At 50 KTAS	19,300 nmi ² /h (66,200 km ² /h)	

CAPABILITIES

IMAGING	SAR
OPERATING MODES	Stripmap, Spotlight, Wide Area
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 (Standard Strongback Configuration)	Diameter: 5.4 in (13.7 cm) Length : 58.1 in (147.6 cm) Height: 6.8 in (17.3 cm)
WEIGHT (Standard Strongback Configuration)	24 lb. (10.9 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	9

SAR

GMTI

MMTI

CCD

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