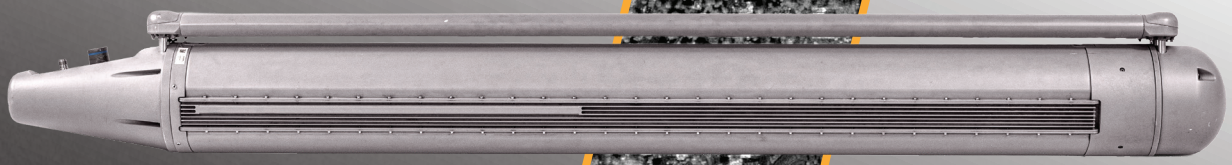
IMSAR

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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VERSION 1 OCT.26.2026

NSP-7

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

PERFORMANCE DATA

SAR IMAGING	Resolution	0.3 m	1 m
	Max Range	31 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 150 KTAS		19,300 nmi²/h (66,200 km²/h)

CAPABILITIES

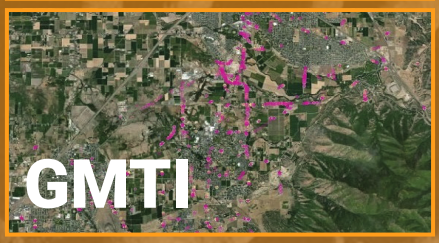
IMAGING	SAR
OPERATING MODES	Stripmap, Spotlight, Wide Area
CHANGE DETECTION	Non-Coherent (MCD) Coherent (CCD)
MOVING TARGET INDICATOR	Vehicle & Dismount Tracking
MARITIME SURVEILLANCE	Tracking, ISAR, Sector Scan
RESOLUTIONS	0.1-10 m

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 Targe (CoT)
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*



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