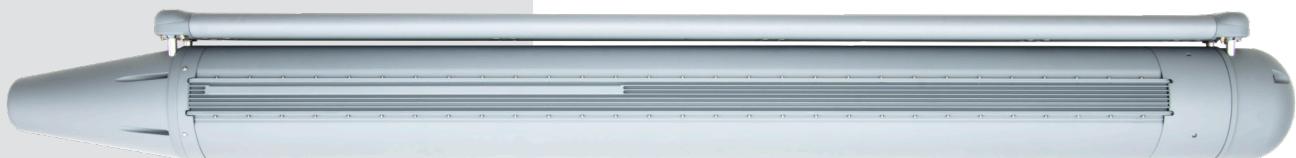
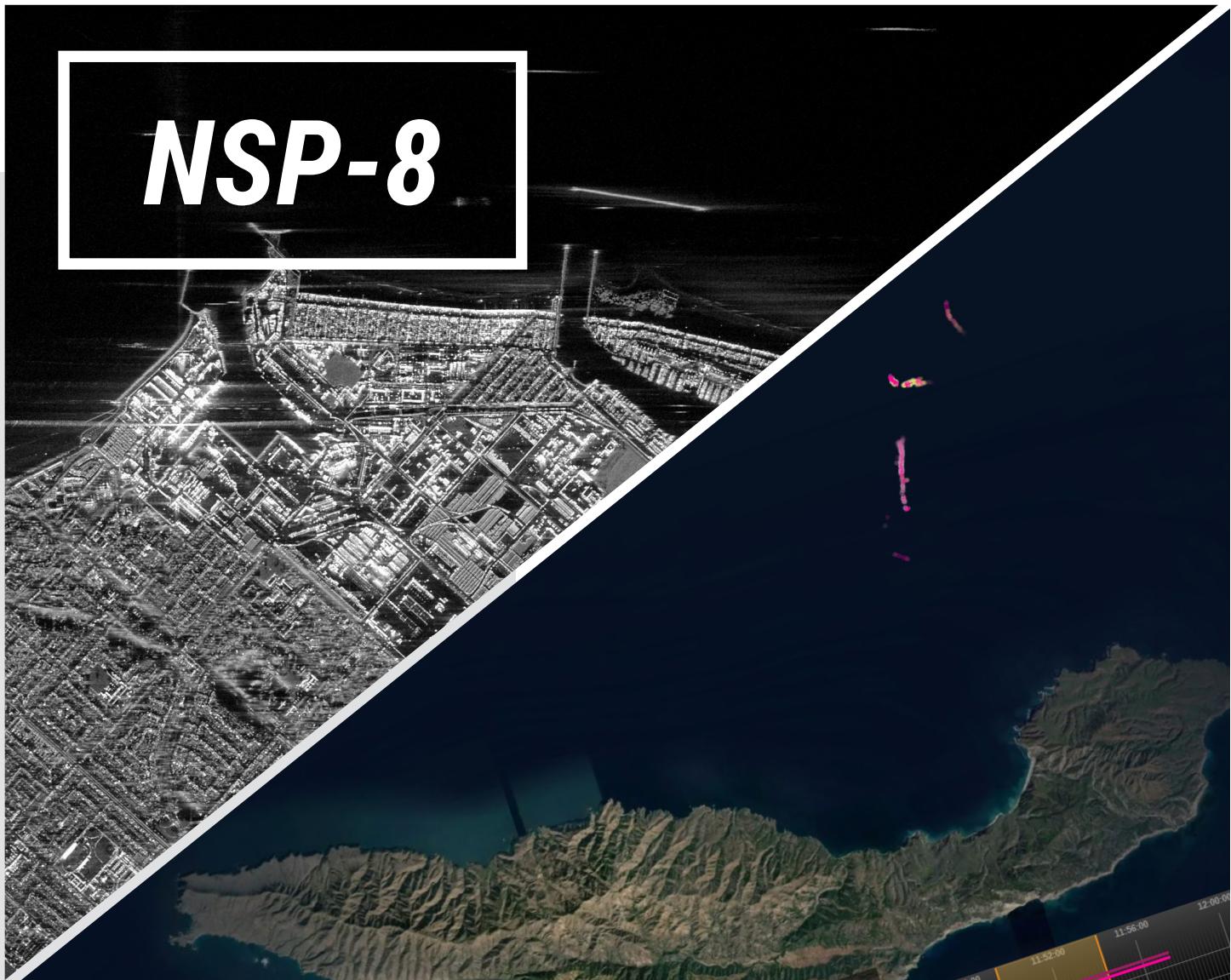


NSP-8



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.

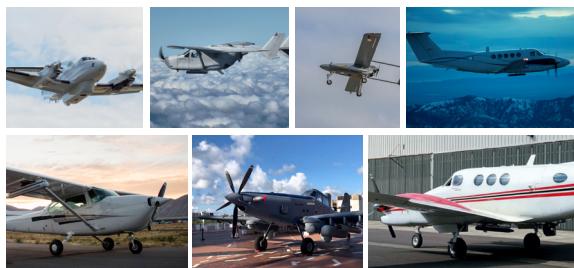
WWW.IMSAR.COM



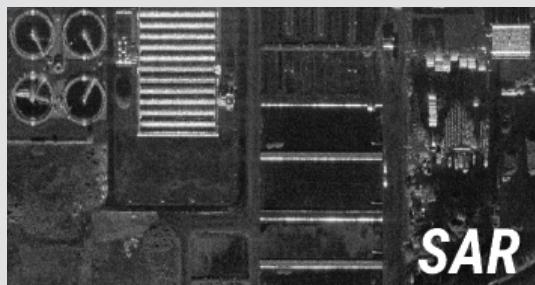
IDS.NSP8.20260127

NSP-8

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



CAPABILITIES



SYSTEM SPECIFICATIONS

SIZE (STANDARD STRONGBACK CONFIGURATION)	DIAMETER: 5.4 IN (13.7 CM) LENGTH: 58.8 IN (149.4) 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

PERFORMANCE DATA

SAR IMAGING	RESOLUTION	0.1 M	1 M
	MAX RANGE	19 KM	72 KM
MOVING TARGET INDICATOR VEHICLE	DETECTION AND TRACKING (GMTI)		39 KM
MARITIME SURVEILLANCE	DETECTION AND GEOLOCATION (SAR)		225 NM (415 KM)
	DETECTING AND TRACKING (MMTI)		159 NM (295 KM)
	CLASSIFICATION (ISAR)		130 NM (240 KM)
MMTI MAX COVERAGE	23,000² SQ NM/HR (79,000 KM²/HR)		
AT 150 KTAS			

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 (METERS)	0.1, 0.3, 0.5, 1, 2, 5, 10

APPLICATIONS

- Specialized ISR Missions
- Wildland Fire Monitoring
- Coastal Mapping
- Railroad Monitoring
- Counter-Narcotics
- Pipeline Monitoring
- Sea Ice Detection & Monitoring
- Search & Rescue
- Illegal Migrant Operations
- And More!



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