



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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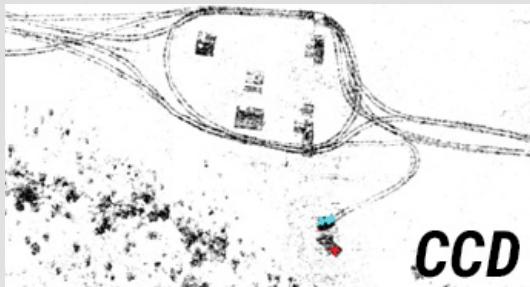
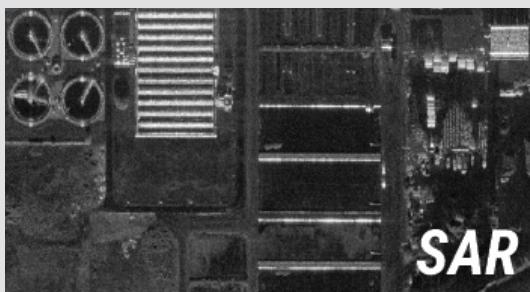
IDS.NSP5.20260127

NSP-5

Designed to fly on Group 3-4 uncrewed airborne platforms



CAPABILITIES



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 LBS (7.5 KG)
POWER	130 W, 28 VDC, 130W TYPICAL, 190 W MAX
FREQUENCY	KU
TARGET PLATFORMS	GROUP 3-4 UNCREWED AIRBORNE VEHICLES
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

PERFORMANCE DATA

SAR IMAGING	RESOLUTION	0.1 M	1 M
	MAX RANGE	13 KM	47 KM
MOVING TARGET INDICATOR VEHICLE	DETECTION AND TRACKING (GMTI)		21 KM
MARITIME SURVEILLANCE	DETECTION AND GEOLOCATION (SAR)		172 NM (319 KM)
	DETECTION AND TRACKING (MMTI)		101 NM (187 KM)
	CLASSIFICATION (ISAR)		89 NM (165 KM)
	MMTI MAX COVERAGE AT 80 KTAS		7,900 NM²/HR (27,000 KM²/HR)

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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