

**NSP-5**



## ***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.



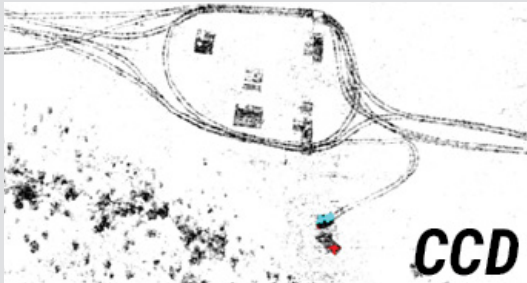
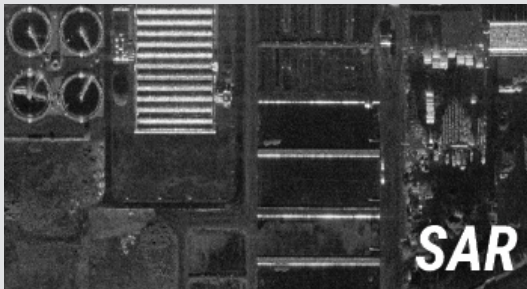
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# NSP-5

Designed to fly on Group 3-4 uncrewed airborne platforms



## CAPABILITIES



## SYSTEM SPECIFICATIONS

SIZE (STANDARD STRONGBACK CONFIGURATION)	<b>DIAMETER: 5.4 IN (13.7 CM)</b> <b>LENGTH: 46.4 IN (117.9 CM)</b> <b>HEIGHT: 6.8 IN (17.3 CM)</b>
WEIGHT (STANDARD STRONGBACK CONFIGURATION)	<b>16.5 LBS (7.5 KG)</b>
POWER	<b>130 W, 28 VDC, 130W TYPICAL, 190 W MAX</b>
FREQUENCY	<b>KU</b>
TARGET PLATFORMS	<b>GROUP 3-4 UNCREWED AIRBORNE VEHICLES</b>
ENVIRONMENTAL	<b>MIL-STD-810G: OPERATIONAL AND STORAGE TEMPERATURE, RAIN, SALT SPRAY, HUMIDITY, TEMPERATURE SHOCK, OPERATIONAL VIBRATION, SHOCK LOAD</b>
RECOMMENDED MAINTENANCE INTERVAL	<b>~2,000 HRS</b>
SENSOR CUEING	<b>CURSOR ON TARGET</b>
COMMUNICATION	<b>ETHERNET</b>
SERVER	<b>AIRBORNE OR GROUND PROCESSING SERVER REQUIRED (SIZE AND WEIGHT NOT INCLUDED IN SPECIFICATIONS ABOVE)</b>
COMMAND & CONTROL	<b>LISA 3D™ AND RADAR CONTROL API</b>
IMAGE EXPLOITATION	<b>LISA 3D™ OR EXISTING PED EQUIPMENT</b>
STANDARD DATA PRODUCTS	<b>KML, COMPLEX NITF, JPG, PNG, BMP, STANAG 4607, STANAG 4676</b>
TRL	<b>9</b>

## PERFORMANCE DATA (6,000 FT AGL AT 80 KTAS)

SAR IMAGING	RESOLUTION	<b>0.1 M</b>	<b>1 M</b>
	MAX RANGE	<b>13 KM</b>	<b>47 KM</b>
MOVING TARGET INDICATOR VEHICLE	DETECTION AND TRACKING (GMTI)	<b>21 KM</b>	
MARITIME SURVEILLANCE	DETECTION AND GEOLOCATION (SAR)	<b>172 NM (319 KM)</b>	
	DETECTION AND TRACKING (MMTI)	<b>101 NM (187 KM)</b>	
	CLASSIFICATION (ISAR)	<b>89 NM (165 KM)</b>	
	MMTI MAX COVERAGE AT 80 KTAS	<b>7,900 NM<sup>2</sup>/HR (27,000 KM<sup>2</sup>/HR)</b>	

## CAPABILITIES

IMAGING	<b>SAR</b>
OPERATING MODES	<b>STRIPMAP, SPOTLIGHT, WIDE AREA</b>
CHANGE DETECTION	<b>NON-COHERENT (MCD)</b>
	<b>COHERENT (CCD)</b>
MOVING TARGET INDICATOR	<b>VEHICLE &amp; DISMOUNT TRACKING</b>
MARITIME SURVEILLANCE	<b>TRACKING, ISAR, SECTOR SCAN</b>
RESOLUTION (METERS)	<b>0.1, 0.3, 0.5, 1, 2, 5, 10</b>

## 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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