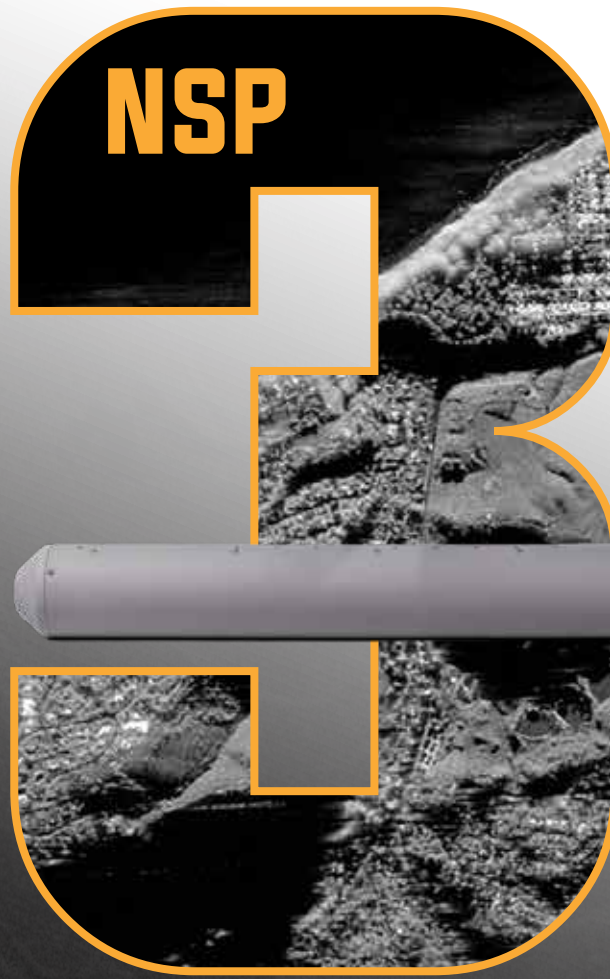
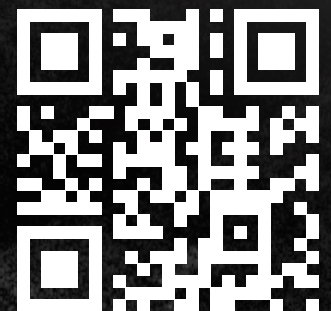




## ***MULTI-MODE, MULTI-DOMAIN SAR/MTI RADAR***

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-3

Designed to fly on Group 2-3 uncueed airborne platforms and manned aircraft. Custom installations available.

## PERFORMANCE DATA

|                                   |                                                                                                     |               |                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|
| SAR IMAGING                       | Resolution<br>Max Range                                                                             | 0.1 M<br>3 KM | 1M<br>13 KM                                                                                 |
| MOVING TARGET INDICATOR (VEHICLE) | Detection & Tracking (GMTI)                                                                         |               | 6.5 KM                                                                                      |
| MARITIME SURVEILLANCE             | Detection & Geolocation (SAR)<br>Detection & Tracking (MMTI)<br>Classification (ISAR)<br>At 50 KTAS |               | 77 NM (143 KM)<br>42 NM (78 KM)<br>2,050 NM <sup>2</sup> /HR<br>(7,030 KM <sup>2</sup> /HR) |

## CAPABILITIES

|                         |                                      |                                                                                    |
|-------------------------|--------------------------------------|------------------------------------------------------------------------------------|
| IMAGING                 | <74 w, 28 VDC                        |  |
| OPERATING MODES         | KU                                   |                                                                                    |
| CHANGE DETECTION        | Non-Coherent (MCD)<br>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 (MODSAR configuration)      | MODSAR radar<br>ELECTRONICS ASSEMBLY:<br>2U MOD PAYLOAD<br>Length: 6.6 IN (16.8 cm)<br>Width: 4.3 IN (10.9 cm)<br>Height: 3.1 IN (7.7 cm) | Antenna pod:<br>Diameter: 3.75 in (9.5 cm)<br>Length: 26.5 in (67.3 cm) |
| WEIGHT (MODSAR CONFIGURATION)    | 5.9 lbs (2.7 kg) (With a 30" cable set)                                                                                                   |                                                                         |
| POWER                            | <74 w, 28 VDC                                                                                                                             |                                                                         |
| FREQUENCY                        | KU                                                                                                                                        |                                                                         |
| TARGET PLATFORMS                 | Group 2-3 UAS                                                                                                                             |                                                                         |
| RECOMMENDED MAINTENANCE INTERVAL | ~1,250 hrs                                                                                                                                |                                                                         |
| SENSOR CUEING                    | Cursor on Target                                                                                                                          |                                                                         |
| COMMUNICATION                    | Ethernet                                                                                                                                  |                                                                         |
| SERVER                           | Ground processing server required (Size & 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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