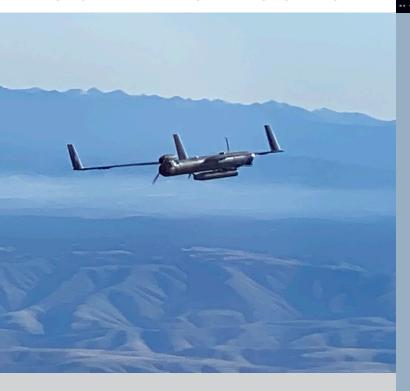
NSP-3

Tactical Multi-Int SAR/MTI/CCD Radar

Delivering real-time, actionable intelligence in day, night and all weather conditions



UNCREWED AIRCRAFT SYSTEMS



Enabling multi-INT, all-weather ISR capabilities normally found on larger, more expensive platforms.

KEY FEATURES & BENEFITS

All-weather, high-quality radar data

Advanced, low-SWaP, multi-mode radar in a protected weatherized pod provides:

- Synthetic Aperture Radar (SAR)
- Moving Target Indicator (MTI)
- Coherent Change Detection (CCD)

Multiple radar search modes

- Stripmap Monitors a swath of ground parallel to the direction of flight.
- Spotlight Monitors a selected area of ground while UAS flies past or around it.
- Wide area Monitors the large area within the radar's FoV for potential targets of interest.

Coherent Change Detection

CCD facilitates the discovery of surface disturbances and other pattern of life analyses far more effectively than EO or IR alone.

Wide-area search modes

Monitors and tracks moving targets with easy-to-use indicators, making NSP-3 ideal for maritime patrol, force protection and counter-trafficking missions.

- Ground Moving Target Indicator (GMTI)
- Dismount Moving Target Indicator (DMTI)
- Maritime Moving Target Indicator (MMTI)
- High Value Target (HVT) mode

Intuitive software optimized for radar

The radar operating software, *Lisa 3D*, for Command and Control (C2) and Processing, Exploitation, and Dissemination (PED) provides:

- Pre-mission flight geometry based on data collection plan
- Operational capability to program the radar, dynamically change plans and modes, and perform real-time analysis
- Posi stan

 Post-mission analysis with export to standard formats and data forensics

30 YEARS
OPERATIONAL
EXPERIENCE

1.5 MILLION FLIGHT HOURS

This document consists of basic marketing information subject to change without notice. Non-Technical /

Administrative Data Only. Not subject to EAR or ITAR Export Regulations. Items subject to U.S. export controls

GLOBAL OPERATIONS SYSTEM MODULARITY

SERVICES, ACQUISITION AND FMS

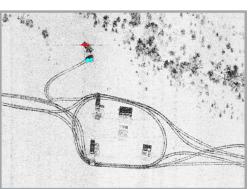
NSP-3

Tactical Multi-Int SAR/MTI/CCD Radar

Find and track moving targets and identify critical changes over time







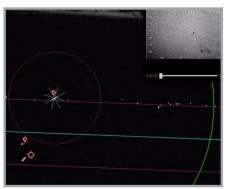
SAR baseline pass

Pattern of Life Analysis

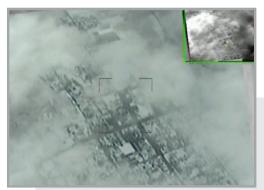
Coherent Change Detection (CCD)

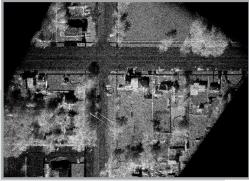


Ground Moving Target Indicator
Pink indicates object moving
towards the radar



Maritime Surveillance
Targets of interest identified
and cross-cued to IR video





EO/IR FMV

Low Visibility Comparison

NSP-3 SAR Spotlight Mode



Developed and produced by IMSAR. Integrated and tested in collaboration between Insitu and IMSAR.

SPECIFICATIONS

OPERATIONAL RANGES

- Operating Frequency: Ku band
- Operating Altitude: Mode dependent up to 6,000 ft AGL
- SAR imaging range: 14.2 km (at 1m resolution)
- MTI (vehicle): 6 km max. range; max. continuous coverage 16 km²
- Maritime
 - Raft: 5.5 nmi range, 5 nmi swath width
- Fishing Boat: 7 nmi range, 6 nmi swath width
- Super tanker: 45 nmi range, 44 nmi swath width

STANDARD DATA FORMATS

- KML, Complex NITF
- JPG, PNG, BMP
- STANAG 4607 Detects, STANAG 4676 Tracks

VARIANTS

- NSP-3(X): SAR, CCD, MCD, GMTI/MMTI (advanced), DMTI
- NSP-3(S): SAR, MCD, GMTI/ MMTI (standard)
- * Not all variants are available to all customers