

# MILSAR



## MILSAR UAV SAR/GMTI Radar



### Cloud is Not your Limit

MILSAR is designed to be used on airborne platforms for Intelligence-Surveillance-Reconnaissance, deterrence, and attack operations. It has versatile Ground Moving Target Indication (GMTI) modes for detection and tracking of potential targets and Synthetic Aperture Radar (SAR) modes for high resolution and all weather radar imagery, target classification and ground mapping.

### Compact, Multi Mode Airborne Surveillance Radar

MILSAR could be operated on unmanned air vehicles (UAVs), helicopters and fixed wing aircrafts along with its easy installation feature. This high technology radar system has the same form-fit mechanical interfaces as a standardized 15" EO/IR sensor turret to be readily replaced with an EO/IR sensor. In addition, operating MILSAR together with an EO/IR sensor in a "slew to cue" fashion improves the effectiveness of the UAV-UCAV joint operations through maximizing wide area surveillance of UAV and increasing UCAV's attack capability.

MILSAR detects and tracks potential targets either low speed small size or fast moving objects even in adverse weather and low visibility conditions including cloud and fog. SAR features come with Stripmap and Spotlight sub-modes which enable high resolution, long range imaging even in low visibility, over-the-cloud surveillance operations in day or night.



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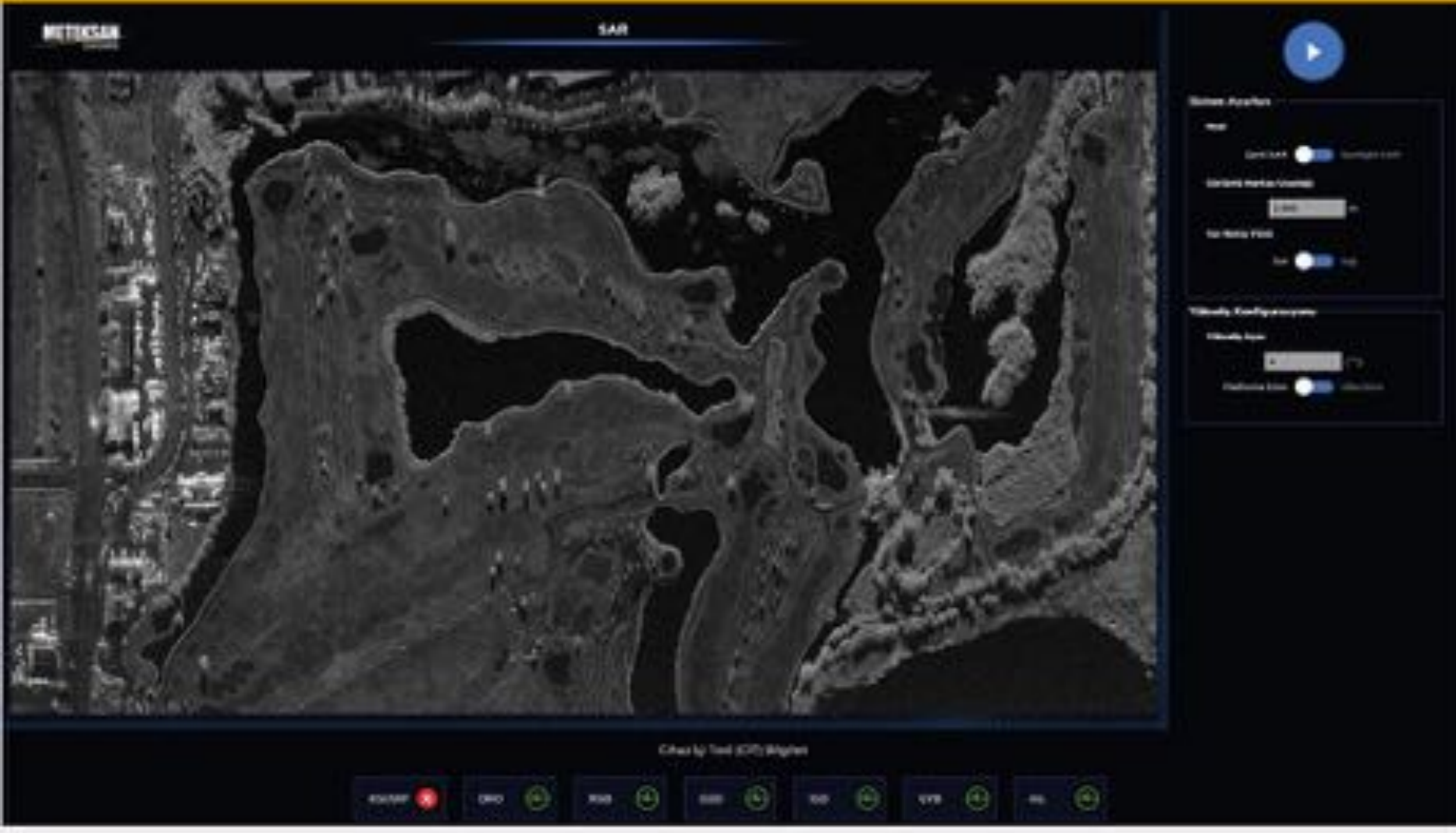


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## Wide Area and High Resolution Focused Imaging

Radar plots and tracks are displayed on a geo-referenced plan-position display or can be overlaid on digital map. Selected target's range-bearing and course-speed parameters are instantly displayed on operator's console.

Stripmap mode provides real-time, accurate ground mapping and radar imaging in submetric spatial resolution, and is used for wide area surveillance. The Spotlight mode is specialized for feature detection, identification, and classification. MILSAR's optional Coherent Change Detection (CCD) highlights the difference and facilitate to understand activities over selected area by comparing the SAR images produced at different time periods

## Key Features



Muti-Mode Airborne Radar



All Weather Surveillance



Wide Area Surveillance



High Resolution Radar Imaging



Compact and Lightweight



Protection of Land and Sea Borders



Selectable Resolutions



High Resolution Monopulse Tracking

## System Options

The system has optional modes for Dismounted Moving Target Indication (DMTI) for individual subject detection and Maritime Moving Target Indication (MMTI) for surveillance over coastal areas.

MILSAR's optional Coherent Change Detection (CCD) highlights the difference and facilitate to understand activities over selected area by comparing the SAR images produced at different time periods.

## Technical Specifications

Azimuth Coverage	360°
Elevation Coverage	+10° / -55°
Max.Slant Range (GMTI/SAR)	27 km / 27 km
Min.Slant Range (GMTI/SAR)	4 km / 4 km
SAR Resolutions	3mx3m;1mx1m; 30cmx30cm
Operating Voltage	20-30 VDC
Average Power Consumption	600W
Weight	30kg
Dimension (diameter x height)	370mmx445mm