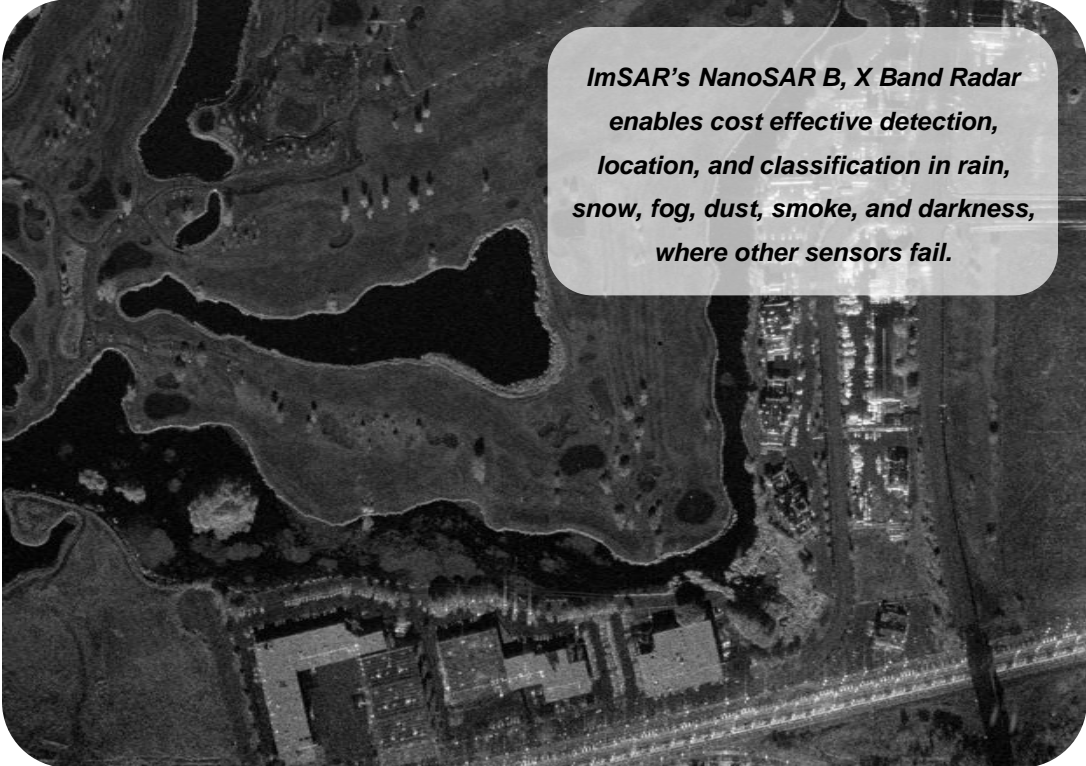


NanoSAR B, X Band Radar



ImSAR's NanoSAR B, X Band Radar enables cost effective detection, location, and classification in rain, snow, fog, dust, smoke, and darkness, where other sensors fail.



FEATURES

- Compact
- Low Power and Weight
- All weather, day and night sensing
- Change Detection
- Command and Control over Serial TTL, RS-232, or Ethernet
- Integrates with ImSAR's Viper Communication System and Lisa Ground Processor

ImSAR's NanoSAR B Radar generates detailed real-time aerial images from a payload small and light enough to be mounted in a Tier II UAV. NanoSAR B integrates with ImSAR's Lisa ground station and Viper communication link to provide a cost-effective plug and play radar imaging solution.

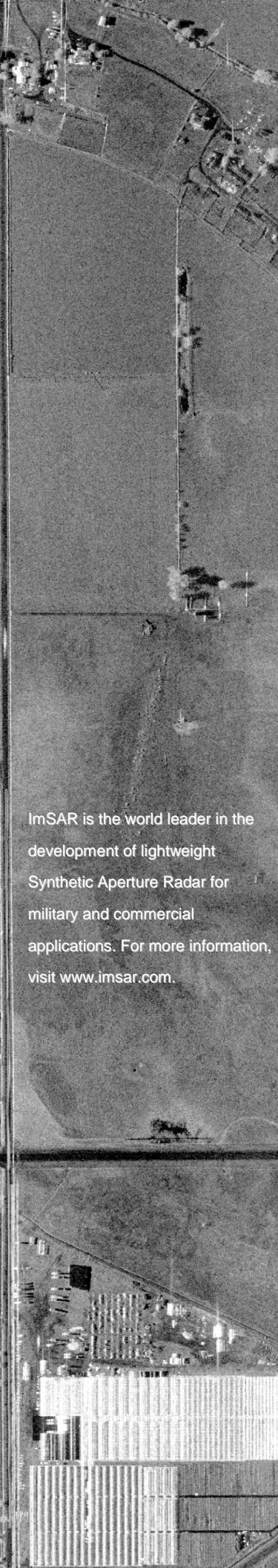
Compact. The NanoSAR B radar, turret, antenna, and cabling total less than 86 cu in, and can mount in a 7 inch diameter wing mounted pod.

Low Power and Weight. The entire NanoSAR B Radar assembly, including gimbal, GPS, and IMU, weighs 3.5 lbs and consumes less than 30 Watts.

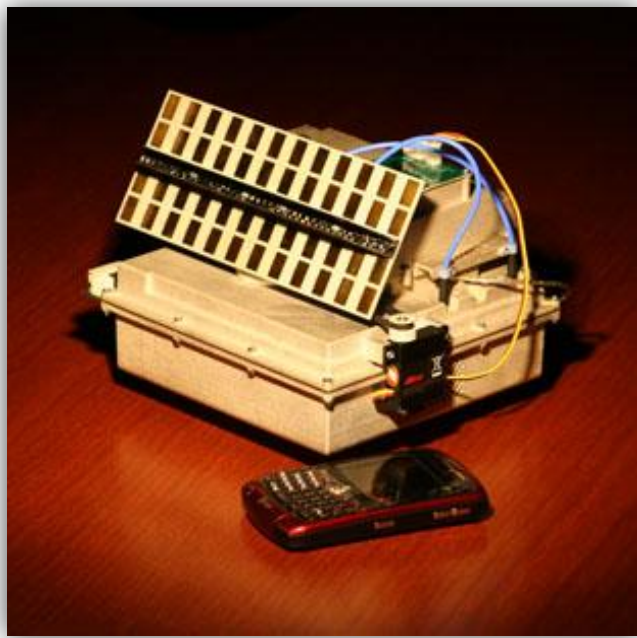
All Weather, Day and Night Sensing. The NanoSAR B Radar can operate day or night, in rain, snow, fog, dust, or smoke.

Simple GUI based Command and Control. The NanoSAR B Radar system is controlled over the elegant Lisa Dashboard graphical user interface using a choice of Serial TTL, RS-232, or Ethernet.

Integrates with ImSAR System Components. The NanoSAR B Radar communicates with the ImSAR Viper Communication Ground Station and Lisa Payload Ground Station to enable real-time monitoring and control of the NanoSAR B Radar and real-time analysis of SAR data by



ImSAR is the world leader in the development of lightweight Synthetic Aperture Radar for military and commercial applications. For more information, visit www.imsar.com.



Key Specifications

Transmitted Power	1W
Range Resolution	0.3, 0.5, 1, 2, 5 m
Standoff Range	1-4 km
Slant Swath	4000 Resolution Cells
Frequency	X-Band

SWAP including Gimbal, GPS, and IMU

Size	< 100 cu in, 6.2 x 7.5 x 4.5 in + antenna
Weight	3.5 lbs
Power	< 30 W consumed
Supply Voltage	12-18V

Options

- Enhanced Resolution
- Extended Range
- Interferometry
- Dual Polarization
- Change Detection

Features

Operating Mode	Stripmap, Spotlight, Circular SAR
Command and Control	Lisa Dashboard™
Communication	RS-232, Ethernet
Sensor Cueing	Cursor On Target
Image Products	Google Earth complex image NITFS JPEG/PNG/BMP

Image Processing and Exploitation: Lisa Ground Station™

Lisa IQ™	Real Time Processing
Lisa CCD™	Change Detection
Lisa Circular SAR™	Video SAR
Lisa Viewer™	Image Exploitation
Lisa Dashboard™	Command & Control



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