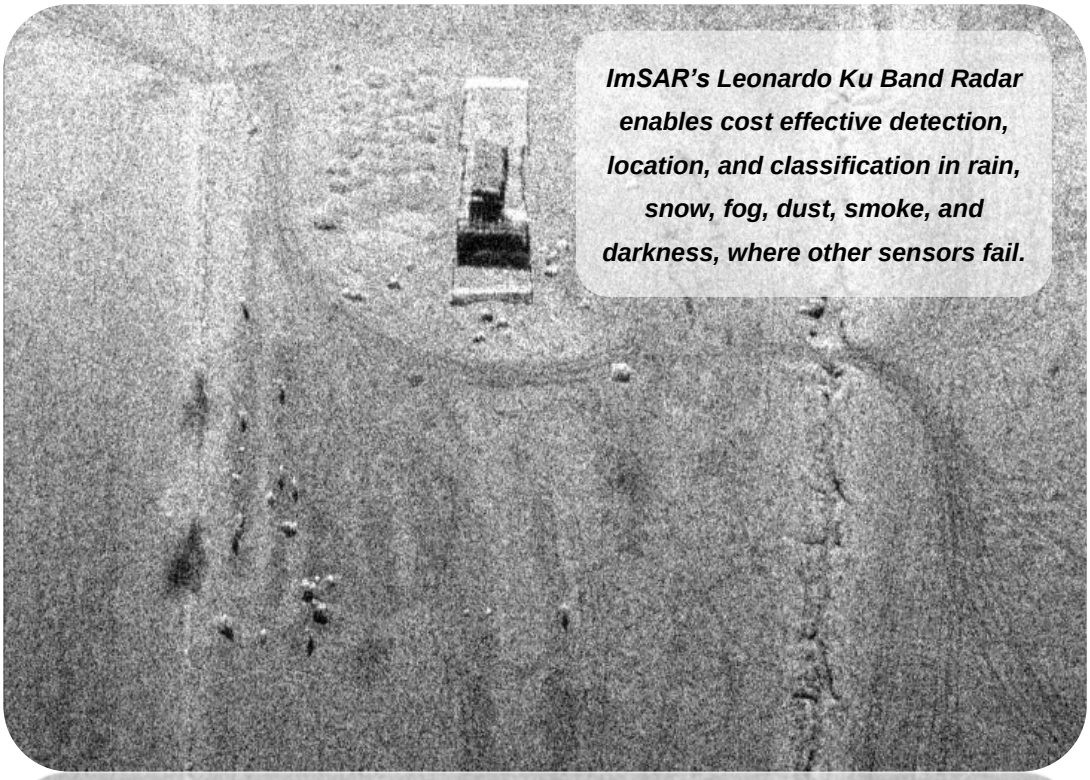
ImSAR The Radar Revolution

Leonardo, Ku Band Radar



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

FEATURES

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

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

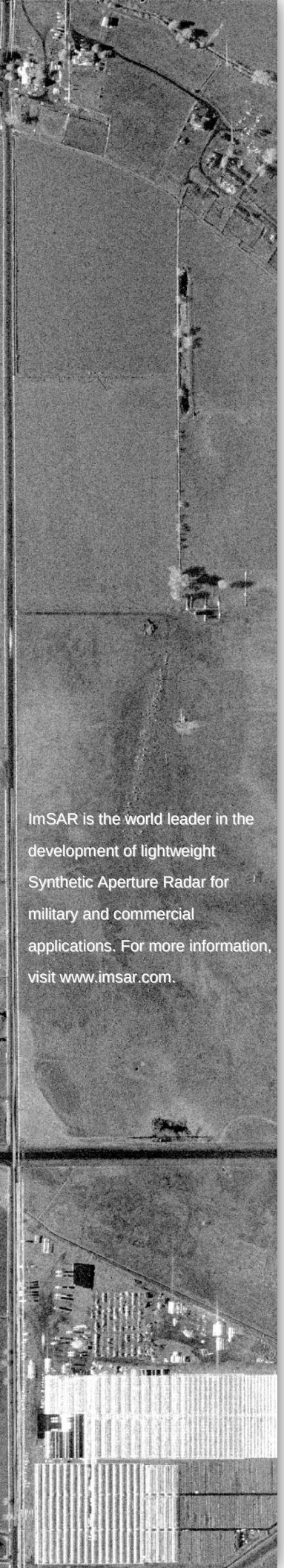
Low Power and Weight. The entire Leonardo Radar assembly, including gimbal, GPS, and IMU, weighs 3.5 lbs and consumes less than 30 Watts.

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

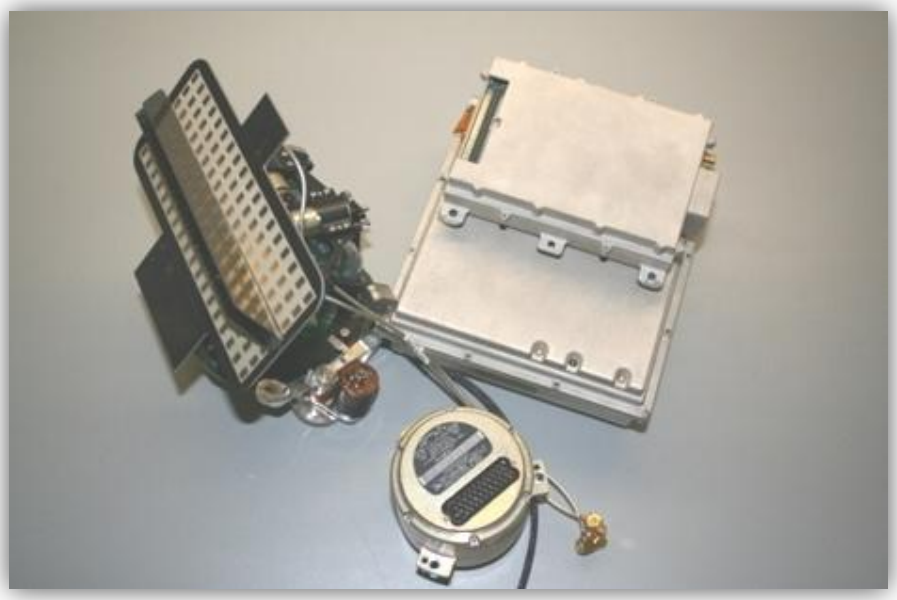
Simple GUI based Command and Control. The Leonardo Radar system is controlled over the elegant Lisa Dashboard graphical user interface using a choice of Serial TTL, RS-232, or Ethernet.

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

ImSAR
www.imsar.com



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	Ku-Band

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

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

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

Options
Enhanced Resolution
Extended Range
Interferometry
Dual Polarization
Change Detection

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