

FOGLITE 3D LIDAR Imaging



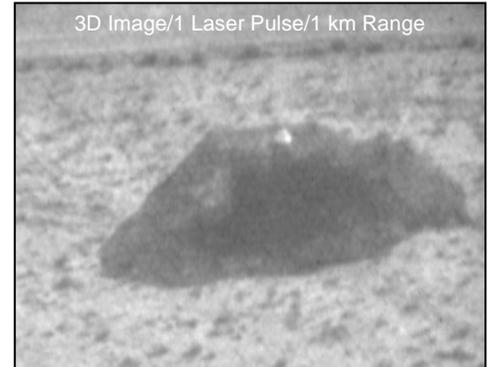
Date Revised: 25 FEB 04

VENDOR DESCRIPTION

This sensor is a day/night sensor capable of producing optical quality 3D imagery and mapping data in real time through moderate cloud cover, smoke, dust, foliage, and camouflage. Occupies the laser designator/rangefinder volume in the MTS-B gimballed turret and complements existing EO/IR sensors. Adaptable to other turrets. FOGLITE imagery, which can be relayed directly to the cockpit display of combat aircraft through existing communications links, or to remote decision-makers, will be of sufficiently high quality to permit weapons release authority to be granted in many circumstances where it is currently denied due to inadequate target identification. In addition, the FOGLITE sensor will provide the generation of 3D mapping data that can be displayed in real time. Flight qualification and demonstration of the complete sensor on a Predator B-class UAV will occur at the end of CY05.

Images from C-130

High-resolution
EO Image of
Camouflaged
Truck



Time-dependent
Image



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Business Category: Large Business

LIDAR

FOGLITE	
Power: < 400 watts	Frame Rate: 20 Hz
Weight: < 50 pounds	Receiver format: 256 x 256
Dimensions: 267 mm x 203 mm x 76 mm	Laser Target Designation
Internal Volume: ~0.15 ft ³	Operating Temp.: -10°C to 65°C
Sensor Type: 3-D LIDAR Imager with Obscurant Penetration	Depression Angle (Turret): +40°, -135°
Laser Wavelength: SWIR	Operating Altitudes: 15,000 to 30,000 ft AGL
Laser Energy: 350 mJ	Operating Speed: 210 KIAS, normal operation