

Intensified Sensor System

Date Revised: 30 JAN 04

VENDOR DESCRIPTION

The Lockheed Martin Image Intensified Sensor heritage began in the 80's with development of the sensor used for Tomahawk's Terminal Guidance System. Over 3000 sensors later, our team has successfully integrated Image Intensified Sensors into platforms ranging from targeting sensors for AFSOC to commercial surveillance platforms. Our team provides the maximum benefit vs. cost for a given application by integrating off-the-shelf components and state-of-the-art image processing with rugged packaging techniques that have been proven in rigorous testing. Processing includes adaptive Auto-Exposure/Gain Control (Pat #5,959,668) and Dynamic Range Enhancement (Pat #6,501,504). These sensors have both Passive and Active modes. This "Sensor System" approach allows NESS-Akron to incorporate the most capability into the smallest, most flexible package – with the least NRE.



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Business Category: Large Business

EOIR

Hardware	
RF Frequency: NA	Operating Temp.: -57°C to 70°C
Power: 8-20 watts (Varies w/supply voltage)	Storage Temp.: -65°C to 85°C
Weight: 2-5 lbs (Varies w/application)	Interface: Video: RS-170, RS-343, Serial Digital Control: RS-232
Dimensions: As small as 50mm x 50mm x 60mm	Bandwidth Required: 400 MHz to 1 GHz
Internal Volume: Sensor head as small as 10in ³	TCDL Compatibility: Yes
Cooling: Ambient air	MTBF: > 5000 hrs
LOS Stabilization: NA	MTTR: 2 hrs (Varies w/application)
Auto Video Tracker: Optional	Maintainability: 2-level BIT to LRM level
Operating Altitude: GL to 55 kft AGL	Pd: 95%
Operating Speed: NA	

Electro-Optical (EO)	
Type: Image Intensified CCD	Modes of Operation: Active, Passive, etc.
Resolution: Up to 1k x 1k	Target Size: APC
Range: Varies w/application & optics	Field of View: Varies w/optics
Angular Coverage: Varies w/optics	Sensitivity: Gen III/IV Image Intensifier
Zoom Rate: Instantaneous electronic 1:1-8:1	Color or B/W: B/W