

MSS

MINI SEE SPOT



MEETING TODAY'S CHALLENGES TO PROVIDE A SECURE FUTURE WITH THE MINI SEE SPOT

Long range reconnaissance, superior image quality, true imaging laser see spot and handheld portability are the underlying characteristics of the Mini See Spot (MSS) thermal imager from Leonardo DRS. The MSS employs micro-cooler mid-wave infrared technology to create a large-format image of 640 x 480 pixels with a marker / designator (1.064 micron) laser see spot inherent in the sensor. Ideal for extended range target detection and identification, the MSS weighs less than two pounds, including its six hot-swappable batteries extending system operation without having to power down during battery change, enabling persistent surveillance. Handheld, mounted to a laser designator/marker source, or tripod mounted, the MSS can also be powered from an external power source.

The MSS supports the mounted and dismounted FIRES mission day or night with clarity of image, and laser spot confirmation on target in a completely passive mode (no illumination or artificial lighting sources required).

- See Battlefield Laser Markers / Designators directly on image
- Rapidly ID, acquire and engage targets completely passive. Supports both analog or digital displays
- Handheld, laser mounted and aligned or tripod mounted
- Image through degraded battlefield and weather conditions
- Reduce fratricide and collateral damage with target ID and spot confirmation



MINI SEE SPOT (MSS)

FOCAL PLANE ARRAY

COMPONENT	DESCRIPTION
Detector Type	HgCdTe
Array Size	640 x 480
Detector Pitch	12 μ m
Spectral Response	3.7 – 5 μ m (1.064 μ m narrow pass)

VIDEO

Frame Rate	\leq 60 Hz
Format	VGA / USB
Gain / Level Control	AGC / Manual Gain and Level Control
Image Polarity	White Hot / Black Hot

MECHANICAL

Dimensions (L x W x H)	9 x 2.5 x 3 inches
Weight	1.98 lbs.
Mounting	1/4-20 Standard Tripod Mount or MIL-STD 1913 Rail

COMMUNICATION INTERFACE

Serial Interface	RS-232
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ELECTRICAL

COMPONENT	DESCRIPTION
Power Source	Six (6) 3.0 VDC Lithium Batteries
External Power	12.0 – 35 VDC
Batteries	Six (6) Lithium Batter CR123A
Battery Operational Time	> 4.0 hours (6 DL-123)
Start-up Time	< 4 minutes

ENVIRONMENTAL

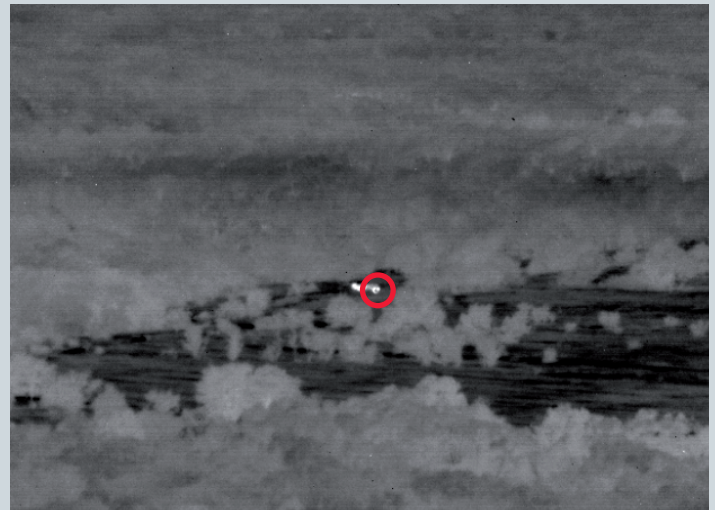
Operating Temperature	-20°C to +50°C
Storage Temperature	-40°C to +70°C
Immersible	1 meter for two (2) hours

PERFORMANCE

Focus Range	Variable (20m to infinity)
Azimuth Sensing	\leq 7° Digital Magnetic Compass
Field of View	4.1° x 3.2°
EZoom	2X, 4X
Compass Accuracy	\pm 10°C to magnetic North (\pm 2° typical)
Compass Sensing	Tilt compensated Azimuth
Audible Noise	< 40 dB (1 meter)
Operating Modes	On or Standby
Output / Connectors	VGA / RGB and USB



Distance: 500 Meters



Distance: 2,168 Meters

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